KC Conformity Mark · Korea

HLG-150H-24B

cloud light mobile · medium + large (24V) (outside of North America)
suspended softwall + softblock luminaires (outside of North America)

molo design, ltd.

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Vancouver BC
Canada V5L 2G7

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molo

접 수 번 호 (Receipt No.) : 23-051572-03-1

안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 (Certificate No.)	:	SZ11007-11005I
제 조 업 자/수 입 업 자 명 (Manufacturer/importer)	:	MEAN WELL Enterprises Co., Ltd.
주 소 (Address)	:	No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
제 품 명 (Product)	:	조명기구용컨버터(LED용) (Electronic controlgear)
기 본 모 델 명 (Basic Model)	:	HLG-185-54
파 생 모 델 명 (Series Model)	:	See the attachment 2
정격/안전기준상의 모델구분 (Rating)	:	AC100-240 V, 50/60 Hz, 2.0-0.85 A, 200 W (Output : DC 54 V, 3.45 A)
시 험 기 준 (Standard)	:	KC61347-1(2022-02), KC61347-2-13(2022-02)

본 인증서는 제 조 국 명 : 대만
제 조 업 자 명 : MEAN WELL Enterprises Co., Ltd.
제조공장의 주소 : No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
다수 공장의 명 : "이면기재" 의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4),10(2)or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2023 년 09 월 01 일
Year month day

한국산업기술시험원장
KOREA TESTING LABORATORY

※ 이 인증서는 「전기용품 및 생활용품 안전관리법 시행규칙」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류	1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components) 2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model) 3. 안전인증의 변경 현황 (Revisions Status)

Korea Testing Laboratory

안전인증번호
Certification No. : SZ11007-11005I

다수 공장의 현황
(The status of Multiple Factories)

No	현 황	
1	다수 공장의 명 (Name)	MEAN WELL (Guangzhou) Electronics Co.,Ltd.
	주소 (Address)	No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guang dong, China
	제조국명 (Origin)	중국

□ 첨부 1 : 전기용품의 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST-series	T3.15 A 250 Vac	VDE
	Conquer	MST-series	T4 A 250 Vac	VDE
	Conquer	MST	T3.15 A 300 Vac	VDE
	Conquer	MST	T4 A 300 Vac	VDE
	Walter	2010	T3.15A,300V	VDE
	Walter	2010	T4A,300V	VDE
Y-capacitor (C3, C4)	Walsin	AC	Max 1000 pF Min 250 Vac 125 ℃	VDE
	Walsin	AH		
	TDK	CD		
	TDK	CS		
	Murata	KX		KC
	Murata	KH,KY		VDE
	Welson	KL, WD		VDE
	VISHAY	440L… VY1 WKP		VDE
	Huiwan	AR		VDE
	Wanming	HJ		VDE
Varistor (ZNR1, ZNR2)	Thinking	TVR14511-D	320Vac, 410Vdc	UL
	Centra Science	CNR14D511K		
	Joyin	14S511K, 14N511K		
	Nippon Chemicon	TNR14V511K		

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
	Thinking	TVR10471-D, TVR14471-D, TVR10471-V, TVR14471-V, TVR10471-K TVR14471-K	300Vac, 385Vdc,105℃ (Flame class of body coating complied with V-0)	UL
	Thinking	TVR10471-M, TVR14471-M	300Vac, 385Vdc,125℃ (Flame class of body coating complied with V-0)	UL
	Thinking	TVR14511-D TVR10511-D, TVR10511-V, TVR14511-V, TVR10511-K TVR14511-K	320Vac, 410Vdc,105℃ (Flame class of body coating complied with V-0)	UL
	Thinking	TVR10511-M, TVR14511-M	320Vac, 410Vdc,125℃ (Flame class of body coating complied with V-0)	UL
	Thinking	TVR10561-D, TVR14561-D, TVR10561-V, TVR14561-V, TVR10561-K TVR14561-K	350Vac, 450Vdc,105℃ (Flame class of body coating complied with V-0)	UL
	Thinking	TVR10561-M, TVR14561-M	350Vac, 450Vdc,125℃ (Flame class of body coating complied with V-0)	UL
	Centra Science	CNR-14D471K CNR-10D471K	300Vac, 385Vdc,105℃ (Flame class of body coating complied with V-0)	UL
	Centra Science	CNR-10D511K	320Vac, 410Vdc,105℃ (Flame class of body coating complied with V-0)	UL
	Centra Science	CNR-14D561K CNR-10D561K	350Vac, 450Vdc,105℃ (Flame class of body coating complied with V-0)	UL
	Huiwan	V-471K-10D(E)H, V-471K-14D(E)H	300 Vac,380 Vdc,	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
	Huiwan	V-511K-10D(E)H, V-511K-14D(E)H	320 Vac,410 Vdc,	VDE
	Huiwan	V-561K-10D(E)H, V-561K-14D(E)H	350 Vac,450 Vdc,	VDE
X Capacitors (C1, C2) (Optional) (X1 or X2 type) (C1,C2: Max. 0.82uF)	KEMET(Arcotronics)	R.46	Min 250 Vac, 110 ℃	ENEC
	Epcos	B3292#...	Min 250 Vac, 105 ℃	VDE
	Liow Gu	GS-L	Min 250 Vac, 100 ℃	VDE
	Ultra	HQX	Min 250 Vac, 100 ℃	VDE
	NISSEI	MP1	Min 250 Vac, 100 ℃	VDE
	HUA JUNG COMPONENTS CO LTD	MKP	Min 250 Vac, 110 ℃	UL
	CARLI ELECTRONICS CO LTD	MPX	Min 250 Vac, 110 ℃	VDE
	Joey	MPX	Min 250 Vac, 105 ℃	VDE
Photo Coupler (U3, U4)	Cosmo	K1010	dti.=0.7 ㎜ int. dcr=5.2 ㎜ ext. dcr=8 ㎜ thermal cycling test, 115 °C	VDE/UL
	Lite-On	LTV-817	dti.=0.8 ㎜ int. dcr=5.2 ㎜ ext. dcr=7.8 ㎜, 100 °C	VDE/UL
	Lite-On	LTV-817M	Dti. ≥ 0.4 mm, Ext. dcr ≥ 8.0 mm, thermal cycling test, 115 °C	VDE/UL
	Sharp	PC123	dti.=0.7 ㎜ int. dcr=5 ㎜ ext. dcr=8 ㎜ thermal cycling test, 110 °C	VDE/UL
Bridging capacitor (C31)	Walsin	AH,AS	Max 1000 ㎊, Min 250 Vac, Y1	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
	TDK	CD	Max 1000 pF, Min 250 Vac, Y1	VDE
	Murata	KX	Max 1000 pF, Min 250 Vac, Y1	KC
	Welson	WD	Max 1000 pF, Min 250 Vac, Y1	VDE,UL
	VISHAY	VY1 WKP 440L…	Max 1000 pF, Min 250 Vac, Y1	VDE,UL
	Huiwan	AR	Max 1000 pF, Min 250 Vac, Y1	VDE
	Wanming	HJ	Max 1000 pF, Min 250 Vac, Y1	VDE
Choke (LF2)	Mean Well	TR-953	130 °C	-
Choke (LF3)	Mean Well	TR-948	130 °C	-
Choke (L1)	Mean Well	TR-954	130 °C	-
PFC Choke (L2) (For HLG-WX-YZ, W=100, 120 X=H or blank Y=12,15,20,24,30, 36,42,48,54 Z=A, B or blank)	Mean Well	TF-2072	130 °C	-
PFC Choke (L2) (For HLG-WX-YZ, W=150, 185 X=H or blank Y=15,20,24,30,36, 42,48,54 Z=A, B or blank)	Mean Well	TF-2071	130 °C	-
PFC Choke (L2) (For HLG-WX-12Z W=150, 185 X=H or blank Z=A, B or blank)	Mean Well	TF-1991	130 °C	-
Transformer (T1) (For HLG-120-12Z	Yu Jing	TF-2053	Class B	-
	Elytone			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Z=A, B or blank)	Mean Well			
Transformer (T1) (For HLG-120-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2054	Class B	-
Transformer (T1) (For HLG-100-20Z, HLG-120-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2055	Class B	-
Transformer (T1) (For HLG-100-24Z, HLG-120-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2056	Class B	-
Transformer (T1) (For HLG-100-30Z, HLG-120-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2057	Class B	-
Transformer (T1) (For HLG-100-36Z, HLG-120-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2058	Class B	-
Transformer (T1) (For HLG-100-42Z, HLG-120-42Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2059	Class B	-
Transformer (T1) (For HLG-100-48Z, HLG-120-48Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2060	Class B	-
Transformer (T1)	Yu Jing	TF-2061	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(For HLG-100-54Z, HLG-120-54Z Z=A, B or blank)	Elytone Mean Well			
Transformer (T1) (For HLG-120H-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2073	Class B	-
Transformer (T1) (For HLG-120H-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2074	Class B	-
Transformer (T1) (For HLG-100H-20Z, HLG-120H-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2075	Class B	-
Transformer (T1) (For HLG-100H-24Z, HLG-120H-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2076	Class B	-
Transformer (T1) (For HLG-100H-30Z, HLG-120H-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2077	Class B	-
Transformer (T1) (For HLG-100H-36Z, HLG-120H-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2078	Class B	-
Transformer (T1) (For HLG-100H-42Z, HLG-120H-42Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2079	Class B	-
Transformer (T1) (For HLG-100H-48Z,	Yu Jing Elytone	TF-2080	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
HLG-120H-48Z Z=A, B or blank)	Mean Well			
Transformer (T1) (For HLG-100H-54Z, HLG-120H-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2081	Class B	-
Transformer (T1) (For HLG-150-12Z, HLG-185-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2016	Class B	-
Transformer (T1) (For HLG-150-15Z, HLG-185-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2017	Class B	-
Transformer (T1) (For HLG-150-20Z, HLG-185-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2018	Class B	-
Transformer (T1) (For HLG-150-24Z, HLG-185-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-1999	Class B	-
Transformer (T1) (For HLG-150-30Z, HLG-185-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2019	Class B	-
Transformer (T1) (For HLG-150-36Z, HLG-185-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2020	Class B	-
Transformer (T1) (For HLG-150-42Z,	Yu Jing Elytone	TF-2021	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
HLG-185-42Z Z=A, B or blank)	Mean Well			
Transformer (T1) (For HLG-150-48Z, HLG-185-48Z, HLG-150H-54Z, HLG-185H-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2022	Class B	-
Transformer (T1) (For HLG-150-54Z, HLG-185-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2023	Class B	-
Transformer (T1) (For HLG-150H-12Z, HLG-185H-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2062	Class B	-
Transformer (T1) (For HLG-150H-15Z, HLG-185H-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2063	Class B	-
Transformer (T1) (For HLG-150H-20Z, HLG-185H-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2064	Class B	-
Transformer (T1) (For HLG-150H-24Z, HLG-185H-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2065	Class B	-
Transformer (T1) (For HLG-150H-30Z, HLG-185H-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2066	Class B	-
Transformer (T1) (For HLG-150H-36Z, HLG-185H-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2067	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150H-42Z, HLG-185H-42Z Z=A, B or blank)	Yu Jing	TF-2068	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-48Z, HLG-185H-48Z Z=A, B or blank)	Yu Jing	TF-2069	Class B	-
	Elytone			
	Mean Well			
Power Cord	Dongguan Lucky United	60245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟	KC
	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟	KC
	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟ 3C x 1.5 ㎟	KC
	I-sheng	60227 IEC 53	3G x 0.75 ㎟ 3G x 1.0 ㎟ 3G x 1.5 ㎟ 3G x 2.5 ㎟	KC
	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC
	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC
	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
		K60227 IEC 53 H05VVH-F	3C x 0.75 ㎟ 3C x 1.0 ㎟ 3C x 1.5 ㎟ 3C x 2.0 ㎟ 3C x 2.5 ㎟	KC
	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75 ㎟ 3C x 1.0 ㎟ 3C x 1.5 ㎟ 3C x 2.0 ㎟ 3C x 2.5 ㎟	KC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75㎟-1.0㎟	3G x 0.75 ㎟-1.0 ㎟	KC
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	K60245 IEC 57 H05RN-F 2C-3CX0.75㎟-1㎟	3C x 0.75 ㎟-1.0 ㎟	KC
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0㎟-4㎟	3G x 1.0 ㎟-4.0 ㎟	KC
Potting Compound	DOW Coming Corp.	SYLGARD 160	Gray, rated 105 ℃	UL
	Shin Etsu Silicone	KET-132A/B	Natural, rated 105 ℃	
	Guangzhou Huitian	5299	Gray, rated 150 ℃	UL
	Shin Etsu Silicone	KET-132 A/B H	Natural, rated 150 ℃	UL
	U-Bond	UB-5203A/B	Natural, rated 150 ℃	UL
	DOW CORNING	TC-6011	GY color, rated 150 ℃	UL
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D, JD-D1	Min. V-1, Min. 130 ℃	UL
	Tai He PCB Company Limited	THS		UL
	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T		UL
	HONG SHIEN ENTERPRISE CO LTD	03V-0		UL
	HONG WEI ENTERPRISES CO LTD	79		UL
	HSU TZU ELECTRONIC CO LTD	4V0		UL
	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		UL
	GUANGDONG CHAOHUA	C-104, C-109		UL

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
	SUZHOU WUTONG ELECTRONICS CO LTD	GS-1 GS-3		UL
	CHANGZHOU HAIHONG	CCE-V0, HDCEM1		UL
	Junda	JD-E	V-1, 105 °C	UL
	GUANGZHOU TAIHE	THS	V-1, 105 °C	UL
	HONG SHIEN	-D	V-1, 105 °C	UL
	HSU TZU	DV2	V-1, 105 °C	UL
	JIIN-YU	JY-001, JY-003	V-1, 105 °C	UL
	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-2	V-1, 105 °C	UL
	SUZHOU WUTONG ELECTRONICS CO LTD	GS-2, GS-4, GS-4S	V-1, 105 °C	UL
	CHANGZHOU AOHONG	AOH-2, AOH-8	V-1, 130 °C	UL
Mylar Sheet	-	-	Min.V-2, min.0.2 ㎜	UL

☐ 유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

   As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 21 조제 1 항 또는 제 38 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

   The Safety Certification will be cancelled under the Article 21(1), 38(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.

FP511-04

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-12A	I/P: 1.8A ; O/P: +12Vdc/13A (top cover with two holes, blocked with plastic cap)
HLG-185-12A	
HLG-185H-12B	I/P:1.8A ; O/P: +12Vdc/13A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-12B	
HLG-185H-12	I/P: 1.8A ; O/P: +12Vdc/13A
HLG-185-12	
HLG-185H-15A	I/P : 2.1A, O/P: +15Vdc/11.5A (top cover with two holes, blocked with plastic cap)
HLG-185-15A	
HLG-185H-15B	I/P : 2.1A, O/P: +15Vdc/11.5A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-15B	
HLG-185H-15	I/P : 2.1A, O/P: +15Vdc/11.5A
HLG-185-15	
HLG-185H-20A	I/P : 2.1A, O/P: +20Vdc/9.3A (top cover with two holes, blocked with plastic cap)
HLG-185-20A	
HLG-185H-20B	I/P : 2.1A, O/P: +20Vdc/9.3A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-20B	
HLG-185H-20	I/P : 2.1A, O/P: +20Vdc/9.3A
HLG-185-20	
HLG-185H-24A	I/P : 2.1A, O/P: +24Vdc/7.8A (O top cover with two holes, blocked with plastic cap)
HLG-185-24A	
HLG-185H-24B	I/P : 2.1A, O/P: +24Vdc/7.8A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-24B	
HLG-185H-24	I/P : 2.1A, O/P: +24Vdc/7.8A
HLG-185-24	
HLG-185H-30A	I/P : 2.1A, O/P: +30Vdc/6.2A (top cover with two holes, blocked with plastic cap)
HLG-185-30A	
HLG-185H-30B	I/P : 2.1A, O/P: +30Vdc/6.2A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-30B	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-30	I/P : 2.1A, O/P: +30Vdc/6.2A
HLG-185-30	
HLG-185H-36A	I/P : 2.1A, O/P: +36Vdc/5.2A (top cover with two holes, blocked with plastic cap)
HLG-185-36A	
HLG-185H-36B	I/P : 2.1A, O/P: +36Vdc/5.2A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-36B	
HLG-185H-36	I/P : 2.1A, O/P: +36Vdc/5.2A
HLG-185-36	
HLG-185H-42A	I/P : 2.1A, O/P: +42Vdc/4.4A (top cover with two holes, blocked with plastic cap)
HLG-185-42A	
HLG-185H-42B	I/P : 2.1A, O/P: +42Vdc/4.4A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-42B	
HLG-185H-42	I/P : 2.1A, O/P: +42Vdc/4.4A
HLG-185-42	
HLG-185H-48A	I/P : 2.1A, O/P: +48Vdc/3.9A (top cover with two holes, blocked with plastic cap)
HLG-185-48A	
HLG-185H-48B	I/P : 2.1A, O/P: +48Vdc/3.9A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-48B	
HLG-185H-48	I/P : 2.1A, O/P: +48Vdc/3.9A
HLG-185-48	
HLG-185H-54A	I/P : 2.1A, O/P: +54Vdc/3.45A (top cover with two holes, blocked with plastic cap)
HLG-185-54A	
HLG-185H-54B	I/P : 2.1A, O/P: +54Vdc/3.45A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-54B	
HLG-185H-54	I/P : 2.1A, O/P: +54Vdc/3.45A
HLG-150H-12A	I/P: 1.7A, O/P: +12Vdc/12.5A (top cover with two holes, blocked with plastic cap)
HLG-150-12A	
HLG-150H-12B	I/P: 1.7A, O/P: +12Vdc/12.5A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-12B	
HLG-150H-12	I/P: 1.7A, O/P: +12Vdc/12.5A
HLG-150-12	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-15A	I/P: 1.7A, O/P: +15Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-150-15A	
HLG-150H-15B	I/P: 1.7A, O/P: +15Vdc/10A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-15B	
HLG-150H-15	I/P: 1.7A, O/P: +15Vdc/10A
HLG-150-15	
HLG-150H-20A	I/P: 1.7A, O/P: +20Vdc/7.5A (cover with two holes, blocked with plastic cap)
HLG-150-20A	
HLG-150H-20B	I/P:1.7A, O/P: +20Vdc/7.5A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-20B	
HLG-150H-20	I/P: 1.7A, O/P: +20Vdc/7.5A
HLG-150-20	
HLG-150H-24A	I/P: 1.7A, O/P: +24Vdc/6.3A (top cover with two holes, blocked with plastic cap)
HLG-150-24A	
HLG-150H-24B	I/P: 1.7A, O/P: +24Vdc/6.3A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-24B	
HLG-150H-24	I/P: 1.7A, O/P: +24Vdc/6.3A
HLG-150-24	
HLG-150H-30A	I/P: 1.7A, O/P: +30Vdc/5A (top cover with two holes, blocked with plastic cap)
HLG-150-30A	
HLG-150H-30B	I/P: 1.7A, O/P: +30Vdc/5A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-30B	
HLG-150H-30	I/P: 1.7A, O/P: +30Vdc/5A
HLG-150-30	
HLG-150H-36A	I/P: 1.7A, O/P: +36Vdc/4.2A (cover with two holes, blocked with plastic cap)
HLG-150-36A	
HLG-150H-36B	I/P:1.7A, O/P: +36Vdc/4.2A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-36B	
HLG-150H-36	I/P: 1.7A, O/P: +36Vdc/4.2A
HLG-150-36	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-42A	I/P: 1.7A, O/P: +42Vdc/3.6A (cover with two holes, blocked with plastic cap)
HLG-150-42A	
HLG-150H-42B	I/P:1.7A, O/P: +42Vdc/3.6A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-42B	
HLG-150H-42	I/P: 1.7A, O/P: +42Vdc/3.6A
HLG-150-42	
HLG-150H-48A	I/P: 1.7A, O/P: +48Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-150-48A	
HLG-150H-48B	I/P:1.7A, O/P: +48Vdc/3.2A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-48B	
HLG-150H-48	I/P:1.7A, O/P: +48Vdc/3.2A
HLG-150-48	
HLG-150H-54A	I/P: 1.7A, O/P: +54Vdc/2.8A (top cover with two holes, blocked with plastic cap)
HLG-150-54A	
HLG-150H-54B	I/P:1.7A, O/P: +54Vdc/2.8A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-54B	
HLG-150H-54	I/P: 1.7A, O/P: +54Vdc/2.8A
HLG-150-54	
HLG-120H-12A	I/P: 1.4A, O/P: +12Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-120-12A	
HLG-120H-12B	I/P:1.4A, O/P: +12Vdc/10A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-12B	
HLG-120H-12	I/P: 1.4A, O/P: +12Vdc/10A
HLG-120-12	
HLG-120H-15A	I/P: 1.4A, O/P: +15Vdc/8.0A (top cover with two holes, blocked with plastic cap)
HLG-120-15A	
HLG-120H-15B	I/P:1.4A, O/P: +15Vdc/8.0A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-15B	
HLG-120H-15	I/P: 1.4A, O/P: +15Vdc/8.0A
HLG-120-15	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-20A	I/P: 1.4A, O/P: +20Vdc/6.0A (top cover with two holes, blocked with plastic cap)
HLG-120-20A	
HLG-120H-20B	I/P: 1.4A, O/P: +20Vdc/6.0A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-20B	
HLG-120H-20	I/P: 1.4A, O/P: +20Vdc/6.0A
HLG-120-20	
HLG-120H-24A	I/P: 1.4A, O/P: +24Vdc/5.0A (top cover with two holes, blocked with plastic cap)
HLG-120-24A	
HLG-120H-24B	I/P:1.4A, O/P: +24Vdc/5.0A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-24B	
HLG-120H-24	I/P: 1.4A, O/P: +24Vdc/5.0A
HLG-120-24	
HLG-120H-30A	I/P: 1.4A, O/P: +30Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-120-30A	
HLG-120H-30B	I/P: 1.4A, O/P: +30Vdc/4.0A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-30B	
HLG-120H-30	I/P: 1.4A, O/P: +30Vdc/4.0A
HLG-120-30	
HLG-120H-36A	I/P: 1.4A, O/P: +36Vdc/3.4A (top cover with two holes, blocked with plastic cap)
HLG-120-36A	
HLG-120H-36B	I/P: 1.4A, O/P: +36Vdc/3.4A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-36B	
HLG-120H-36	I/P: 1.4A, O/P: +36Vdc/3.4A
HLG-120-36	
HLG-120H-42A	I/P: 1.4A, O/P: +42Vdc/2.9A (top cover with two holes, blocked with plastic cap)
HLG-120-42A	
HLG-120H-42B	I/P: 1.4A, O/P: +42Vdc/2.9A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-42B	
HLG-120H-42	I/P: 1.4A, O/P: +42Vdc/2.9A
HLG-120-42	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-48A	I/P:1.4A, O/P: +48Vdc/2.5A (top cover with two holes, blocked with plastic cap)
HLG-120-48A	
HLG-120H-48B	I/P: 1.4A, O/P: +48Vdc/2.5A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-48B	
HLG-120H-48	I/P: 1.4A, O/P: +48Vdc/2.5A
HLG-120-48	
HLG-120H-54A	I/P: 1.4A, O/P: +54Vdc/2.3A (top cover with two holes, blocked with plastic cap)
HLG-120-54A	
HLG-120H-54B	I/P: 1.4A, O/P: +54Vdc/2.3A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-54B	
HLG-120H-54	I/P: 1.4A, O/P: +54Vdc/2.3A
HLG-120-54	
HLG-100H-20A	I/P: 1.2A, O/P: +20Vdc/4.8A (top cover with two holes, blocked with plastic cap)
HLG-100-20A	
HLG-100H-20B	I/P: 1.2A, O/P: +20Vdc/4.8A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-20B	
HLG-100H-20	I/P: 1.2A, O/P: +20Vdc/4.8A
HLG-100-20	
HLG-100H-24A	I/P: 1.2A, O/P: +24Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-100-24A	
HLG-100H-24B	I/P: 1.2A, O/P: +24Vdc/4.0A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-24B	
HLG-100H-24	I/P: 1.2A, O/P: +24Vdc/4.0A
HLG-100-24	
HLG-100H-30A	I/P: 1.2A, O/P: +30Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-100-30A	
HLG-100H-30B	I/P:1.2A, O/P: +30Vdc/3.2A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-30B	
HLG-100H-30	I/P: 1.2A, O/P: +30Vdc/3.2A
HLG-100-30	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-100H-36A	I/P: 1.2A, O/P: +36Vdc/2.65A (top cover with two holes, blocked with plastic cap)
HLG-100-36A	
HLG-100H-36B	I/P: 1.2A, O/P: +36Vdc/2.65A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-36B	
HLG-100H-36	I/P: 1.2A, O/P: +36Vdc/2.65A
HLG-100-36	
HLG-100H-42A	I/P: 1.2A, O/P: +42Vdc/2.28A (top cover with two holes, blocked with plastic cap)
HLG-100-42A	
HLG-100H-42B	I/P: 1.2A, O/P: +42Vdc/2.28A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-42B	
HLG-100H-42	I/P: 1.2A, O/P: +42Vdc/2.28A
HLG-100-42	
HLG-100H-48A	I/P: 1.2A, O/P: +48Vdc/2.0A (top cover with two holes, blocked with plastic cap)
HLG-100-48A	
HLG-100H-48B	I/P: 1.2A, O/P: +48Vdc/2.0A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-48B	
HLG-100H-48	I/P: 1.2A, O/P: +48Vdc/2.0A
HLG-100-48	
HLG-100H-54A	I/P: 1.2A, O/P: +54Vdc/1.77A (top cover with two holes, blocked with plastic cap)
HLG-100-54A	
HLG-100H-54B	I/P: 1.2A, O/P: +54Vdc/1.77A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-54B	
HLG-100H-54	I/P: 1.2A, O/P: +54Vdc/1.77A
HLG-100-54	
HLG-120-48A-110W	O/P : 110 W, 45.3 V, 2.24 A
HLG-150-54A-130W	O/P : 130W, 54.1 V, 2.34 A
HLG-100-20AB	I/P:1.2 A, O/P:+20 Vdc/4.8 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-20AB	
HLG-100-24AB	I/P:1.2 A, O/P:+24 Vdc/4.0 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-24AB	

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HLG-100-30AB	I/P:1.2 A, O/P:+30 Vdc/3.2 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-30AB	
HLG-100-36AB	I/P:1.2 A, O/P:+36 Vdc/2.65 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-36AB	
HLG-100-42AB	I/P:1.2 A, O/P:+42 Vdc/2.28 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-42AB	
HLG-100-48AB	I/P:1.2 A, O/P:+48 Vdc/2.0 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-48AB	
HLG-100-54AB	I/P:1.2 A, O/P:+54 Vdc/1.77 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-54AB	
HLG-120-12AB	I/P:1.4 A, O/P:+12 Vdc/10 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-12AB	
HLG-120-15AB	I/P:1.4 A, O/P:+15 Vdc/8.0 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-15AB	
HLG-120-20AB	I/P:1.4 A, O/P:+20 Vdc/6.0 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-20AB	
HLG-120-24AB	I/P:1.4 A, O/P:+24 Vdc/5.0 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-24AB	
HLG-120-30AB	I/P:1.4 A, O/P:+30 Vdc/4.0 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-30AB	
HLG-120-36AB	I/P:1.4 A, O/P:+36 Vdc/3.4 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-36AB	
HLG-120-42AB	I/P:1.4 A, O/P:+42 Vdc/2.9 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-42AB	
HLG-120-48AB	I/P:1.4 A, O/P:+48 Vdc/2.5 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-48AB	
HLG-120-54AB	I/P:1.4 A, O/P:+54 Vdc/2.3 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-54AB	
HLG-150-12AB	I/P:1.7 A, O/P:+12 Vdc/12.5 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-12AB	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150-15AB	I/P:1.7 A, O/P:+15 Vdc/10 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-15AB	
HLG-150-20AB	I/P:1.7 A, O/P:+20V dc/7.5 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-20AB	
HLG-150-24AB	I/P:1.7 A, O/P:+24 Vdc/6.3 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-24AB	
HLG-150-30AB	I/P:1.7 A, O/P:+30 Vdc/5 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-30AB	
HLG-150-36AB	I/P:1.7 A, O/P:+36 Vdc/4.2 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-36AB	
HLG-150-42AB	I/P:1.7 A, O/P:+42 Vdc/3.6 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-42AB	
HLG-150-48AB	I/P:1.7 A, O/P:+48 Vdc/3.2 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-48AB	
HLG-150-54AB	I/P:1.7 A, O/P:+54 Vdc/2.8 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-54AB	
HLG-185-12AB	I/P:1.8 A, O/P:+12 Vdc/13 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-12AB	
HLG-185-15AB	I/P:2.1 A, O/P:+15 Vdc/11.5 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-15AB	
HLG-185-20AB	I/P:2.1A, O/P:+20 Vdc/9.3 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-20AB	
HLG-185-24AB	I/P:2.1 A, O/P:+24 Vdc/7.8 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-24AB	
HLG-185-30AB	I/P:2.1 A, O/P:+30 Vdc/6.2 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-30AB	
HLG-185-36AB	I/P:2.1 A, O/P:+36 Vdc/5.2 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-36AB	
HLG-185-42AB	I/P:2.1 A, O/P:+42 Vdc/4.4 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-42AB	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185-48AB	I/P:2.1 A, O/P:+48 Vdc/3.9 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-48AB	
HLG-185-54AB	I/P:2.1 A, O/P:+54 Vdc/3.45 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-54AB	

제품특기사항 및 시험조건
Remarks & Test conditions

1. Test Report Ref. No. : 11-1920-3066 (2011.08.04.)

2. Product Description

- DC or AC supplied electronic controlgear for LEDs
- Rating - PRI : AC100-240 V 50/60 Hz 200 W
  SEC : 54 Vd.c. 3.45 A
- PF : > 0.9
- Type of protection : IP 67
- tc : 90 ℃, ta : 60 ℃
- Protection class : Class I
- This product is totally enclosed electronic controlgear.
- Constant voltage type, Independent SELV equivalent

* factory information
  - MEAN WELL (Guangzhou) Electronics Co.,Ltd.
    No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China

□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다.
검토 담당자 / 연락처 : 고객지원본부 인증융합평가센터 신 종욱 / 02-8601-1437
□ *If you have any question on product review, please contact the person below :*
Job holder: Customer Support Division, Certification Convergence Evaluation Center, J.U.Shin / +82 2 860-1437

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions

1st Rev.) Critical component is changed. (11-1920-5308 : 2011.10.10.)

- Chang of Manufacturer

Component	Before	After
X-capacitor(C1, C2)	Ar□tronics	KEMET(Arcotronics)

2nd Rev.) Addition of derivative models.(11-1920-0294 : 2012.02.20.)

- "HLG-120-48A-110W", "HLG-150-54A-130W"

3rd Rev.) Addition of factory (16-015152-11 : 2016.03.24.)

- Factory name : Mean Well (Guangzhou) Electronics Co., Ltd.

Address : 2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

4th Rev.) Change Addition factory name, address and president (16-067872-16 : 2016.12.08.)

- Before: Mean Well (Guangzhou) Electronics Co., Ltd. / Wang Fei Long

2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

After : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming

No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China

5th Rev.) Addition of components (17-021470-01 : 2017.04.17.)

- Addition of components

Component	Manufacturer	Model(Type)	Characteristics
Power Cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 ㎟-1.0 ㎟	3G x 0.75 mm^2-1.0 mm^2
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	245 IEC 57 H05RN-F 2C-3CX0.75 ㎟-1 ㎟	3C x 0.75 mm^2-1.0 mm^2
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 ㎟-4 ㎟	3G x 1.0 mm^2-4.0 mm^2

변경발급 내용 Contents of Certificate Revisions
6th Rev.) Addition of derivative models (19-055882-01-2 : 2019.09.04.) - Derivative models : HLG-100-20AB and 67 other models 7th Rev.) Change name, president and address of factory (21-082212-13-1 : 2022.01.11.) - Before : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China After : MEAN WELL (Guangzhou) Electronics Co.,Ltd. / Aden Wang No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China

변경발급 내용
Contents of Certificate Revisions

8th Rev.) Change of PCB layout and Addition of components

(22-050792-01-1 : 2022.09.14.)based on
CB Certificate Ref. No.:DE 2-034753-M1 (TUV RH LGA) and CB report No.,

CN21QFZS 002(TÜV Rheinland (Guangdong) Ltd.)

- differences with basic model for some models modified.

- PCB layout: Added alternative PCB layout for all models; Added one thermistor (RTH1) in front of BD1 base on original PCB layout, and changed original RTH1 to RTH3.

- Added alternative component

Components	Manufacturer	Model	Rating
Fuse (FS1)	Walter	2010	T3.15A,300V
	Walter	2010	T4A,300V
Y-capacitor (C3, C4)	Welson	KL, WD	Max 1000 pF Min 250 Vac 125 °C
	VISHAY	440L… VY1 WKP	Max 1000 pF Min 250 Vac 125 °C
	Huiwan	AR	Max 1000 pF Min 250 Vac 125 °C
	Wanming	HJ	Max 1000 pF Min 250 Vac 125 °C
Varistor (ZNR2)	Thinking	TVR14511-D	320Vac, 410Vdc
	Centra Science	CNR14D511K	
	Joyin	14S511K, 14N511K	
	Nippon Chemicon	TNR14V511K	

변경발급 내용 Contents of Certificate Revisions				
	Varistor (ZNR1, ZNR2)	Thinking	TVR10471-D, TVR14471-D, TVR10471-V, TVR14471-V, TVR10471-K TVR14471-K	300Vac, 385Vdc, 105 °C (Flame class of body coating complied with V-0)
		Thinking	TVR10471-M, TVR14471-M	300Vac, 385Vdc, 125 °C (Flame class of body coating complied with V-0)
		Thinking	TVR14511-D TVR10511-D, TVR10511-V, TVR14511-V, TVR10511-K TVR14511-K	320Vac, 410Vdc, 105 °C (Flame class of body coating complied with V-0)
		Thinking	TVR10511-M, TVR14511-M	320Vac, 410Vdc, 125 °C (Flame class of body coating complied with V-0)
		Thinking	TVR10561-D, TVR14561-D, TVR10561-V, TVR14561-V, TVR10561-K TVR14561-K	350Vac, 450Vdc, 105 °C (Flame clas s of body coating complied with V-0)
		Thinking	TVR10561-M, TVR14561-M	350Vac, 450Vdc, 125 °C (Flame class of body coating complied with V-0)
		Centra Science	CNR-14D471K CNR-10D471K	300Vac, 385Vdc, 105 °C (Flame class of body coating complied with V-0)
		Centra Science	CNR-10D511K	320Vac, 410Vdc, 105 °C (Flame class of body coating complied with V-0)

변경발급 내용 Contents of Certificate Revisions				
	Varistor (ZNR1, ZNR2)	Centra Science	CNR-14D561K CNR-10D561K	350Vac, 450Vdc, 105 °C (Flame class of body coating complied with V-0)
		Huiwan	V-471K-10D(E)H, V-471K-14D(E)H	300 Vac,380 Vdc,
		Huiwan	V-511K-10D(E)H, V-511K-14D(E)H	320 Vac,410 Vdc,
		Huiwan	V-561K-10D(E)H, V-561K-14D(E)H	350 Vac,450 Vdc,
	X Capacitors (C1, C2) (Optional) (X1 or X2 type) (C1,C2: Max. 0.82uF)	NISSEI	MP1	Min 250 Vac, 100 °C
		HUA JUNG COMPONENTS CO LTD	MKP	Min 250 Vac, 110 °C
		CARLI ELECTRONICS CO LTD	MPX	Min 250 Vac, 110 °C
		Joey	MPX	Min 250 Vac, 105 °C
		XIAMEN FARATRONIC CO LTD	MKP62	Min 250 Vac, 105 °C
	Photo Coupler (U3, U4)	Lite-On	LTV-817M	Dti. ≥ 0.4 mm, Ext. dcr ≥ 8.0 mm, thermal cycling test, 115 °C
	Bridging capacitor (C31)	Welson	WD	Max 1000 pF, Min 250 Vac, Y1
		VISHAY	VY1 WKP 440L…	Max 1000 pF, Min 250 Vac, Y1
		Huiwan	AR	Max 1000 pF, Min 250 Vac, Y1
		Wanming	HJ	Max 1000 pF, Min 250 Vac, Y1
	Power Cord	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F	3C x 0.75 mm2 3C x 1 mm2

변경발급 내용 Contents of Certificate Revisions				
	Potting Compound	Guangzhou Huitian	5299	Gray, rated 150 °C
		Shin Etsu Silicone	KET-132 A/B H	Natural, rated 150 °C
		U-Bond	UB-5203A/B	Natural, rated 150 °C
		DOW CORNING	TC-6011	GY color, rated 150 °C
	PCB	GUANGDONG CHAOHUA	C-104, C-109	Min. V-1, Min. 130 °C
		LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A	Min. V-1, Min. 130 °C
		SUZHOU WUTONG ELECTRONICS CO LTD	GS-1 GS-3	Min. V-1, Min. 130 °C
		CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-1, Min. 130 °C
		Junda	JD-E	V-1, 105 °C
		GUANGZHOU TAIHE	THS	V-1, 105 °C
		HONG SHIEN	-D	V-1, 105 °C
		HSU TZU	DV2	V-1, 105 °C
		JIIN-YU	JY-001, JY-003	V-1, 105 °C
		JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-2	V-1, 105 °C
		SUZHOU WUTONG ELECTRONICS CO LTD	GS-2, GS-4, GS-4S	V-1, 105 °C
		RONG HUI	RH-3	V-1, 130 °C
		CHANGZHOU AOHONG	AOH-2, AOH-8	V-1, 130 °C

변경발급 내용
Contents of Certificate Revisions

- Change Critical components rating information.

Component (Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
Y-capacitor (C3, C4)	Walsin	AC	Max 1000 pF Min 250 Vac 125 °C	VDE
	Walsin	AH	Max 1000 pF Min 250 Vac 125 °C	VDE
	TDK	CD	Max 1000 pF Min 250 Vac 125 °C	VDE
	TDK	CS	Max 1000 pF Min 250 Vac 125 °C	VDE
	Murata	KX	Max 1000 pF Min 250 Vac 125 °C	VDE
	Murata	KH,KY	Max 1000 pF Min 250 Vac 125 °C	VDE
X Capacitors (C1, C2) (Optional) (X1 or X2 type) (C1,C2: Max. 0.82uF)	KEMET(Arcotronics)	R.46	Min 250 Vac, 110 ℃	ENEC
	KEMET(Arcotronics)	R.49	Min 250 Vac, 110 ℃	ENEC
	ISKRA	KNB 1530	Min 250 Vac, 100 ℃	VDE
	ISKRA	KNB 1560	Min 250 Vac, 125 ℃	VDE
	Epcos	B3292#...	Min 250 Vac, 105 ℃	VDE
	Liow Gu	GS-L	Min 250 Vac, 100 ℃	VDE
	Pilkor	PCX2 335 PCX2 335M	Min 250 Vac, 105 °C	ENEC
	Pilkor	PCX2 337	Min 250 Vac, 100 ℃	VDE
	Ultra	HQX	Min 250 Vac, 100 ℃	VDE
	Vishay BC Components	339	Min 250 Vac, 105 ℃	ENEC
	Cheng Tung	CTX	Min 250 Vac, 100 ℃	VDE
	Shiny Space	SX1	Min 250 Vac, 100 ℃	VDE

변경발급 내용
Contents of Certificate Revisions

Bridging capacitor (C31)	Walsin	AH,AS	Max 1000 pF, Min 250 Vac, Y1	VDE
	TDK	CD	Max 1000 pF, Min 250 Vac, Y1	VDE
	Murata	KX	Max 1000 pF, Min 250 Vac, Y1	VDE
Power Cord	Dongguan Lucky United	60245 IEC 5 7 H05RN-F	3C x 0.75 mm^2 3C x 1 mm^2	KC
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	K60245 IEC 57 H05RN-F 2C-3CX0.75 mm^2-1 mm^2	3C x 0.75 mm^2-1.0 mm^2	KC
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D,JD-D1	Min. V-1, Min. 130 ℃	UL

- Delete Critical components information

Component	Manufacturer	Model	Rating	Tested by
Varistor (ZNR2)	Thinking	TVR10361-D	230 Vac, 300Vdc	UL
	Centra Science	CNR14D361K		
	Joyin	14S361K, 14N361K		
	Nippon Chemicon	TVR14V361K		

9th Rev.) components modifications and update of KC standards to KC61347-1(2022-02), KC61347-2-13(2022-02) (23-051572-03-1 : 2023.09.01.)
based on CB Certificate Ref. No.: DE 2-034753, DE 2-034753-M1 and DE 2-034753-M2 (TÜV Rheinland LGA Products GmbH) and CB report No. CN21QFZS 001, CN21QFZS 002 and CN21QFZS 003 (TÜV Rheinland (Guangdong) Ltd.)

변경발급 내용
Contents of Certificate Revisions

-Addition of alternative components

Component (Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
Fuse (FS1)	Conquer	MST	T3.15 A 300 Vac	VDE
Fuse (FS1)	Conquer	MST	T4 A 300 Vac	VDE
PCB	Tai He PCB Company Limited	THS	Min. V-1, min. 130 °C	UL
PCB	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T	Min. V-0, min. 130 °C	UL

-Deletion of below components

Component (Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
X Capacitors(C1, C2)(Optional) (X1 or X2 type)	KEMET(Arcotronics)	R.49	Min 250 Vac, 110 ℃	ENEC
X Capacitors(C1, C2)(Optional) (X1 or X2 type)	ISKRA	KNB 1530	Min 250 Vac, 100 ℃	VDE
X Capacitors(C1, C2)(Optional) (X1 or X2 type)	ISKRA	KNB 1560	Min 250 Vac, 125 ℃	VDE
X Capacitors(C1, C2)(Optional) (X1 or X2 type)	Pilkor	PCX2 335 PCX2 335M	Min 250 Vac, 105 ℃	ENEC
X Capacitors(C1, C2)(Optional) (X1 or X2 type)	Pilkor	PCX2 337	Min 250 Vac, 100 ℃	VDE
X Capacitors(C1, C2)(Optional) (X1 or X2 type)	Vishay BC Components	339	Min 250 Vac, 105 ℃	ENEC
X Capacitors(C1, C2)(Optional X1 or X2 type)	Cheng Tung	CTX	Min 250 Vac, 100 ℃	VDE
X Capacitors(C1, C2)(Optional) (X1 or X2 type)	Shiny Space	SX1	Min 250 Vac, 100 ℃	VDE

변경발급 내용
Contents of Certificate Revisions

X Capacitors(C1, C2)(Optional) (X1 or X2 type)	XIAMEN FARATRONIC CO LTD	MKP62	Min 250 Vac, 105 ℃	VDE
Potting Compound	DOW CORNING (SHANGHAI) CO LTD	CN8760 CN8760G	Black, rated 150 ℃	UL
PCB	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A	Min. V-1, Min. 130 ℃	UL
PCB	HSIANG KUO INDUSTRIAL CO LTD	76V0A	Min. V-1, Min. 130 ℃	UL
PCB	LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A	Min. V-1, Min. 130 ℃	UL
PCB	RONG HUI	RH-3	V-1, 130 °C	UL

-Update of KC standards to KC61347-1(2022-02), KC61347-2-13(2022-02)

FP511-06

접 수 번 호 (Receipt No.) : 22-050792-01-1

안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 (Certificate No.)	:	SZ11007-11005H
제 조 업 자/수 입 업 자 명 (Manufacturer/importer)	:	MEAN WELL Enterprises Co., Ltd.
주 소 (Address)	:	No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
제 품 명 (Product)	:	조명기구용컨버터(LED용) (Electronic controlgear)
기 본 모 델 명 (Basic Model)	:	HLG-185-54
파 생 모 델 명 (Series Model)	:	See the attachment 2
정격/안전기준상의 모델구분 (Rating)	:	AC100-240 V, 50/60 Hz, 2.0-0.85 A, 200 W (Output : DC 54 V, 3.45 A)
시 험 기 준 (Standard)	:	KC61347-1(2015-09), KC61347-2-13(2015-09)

본 인증서는 제 조 국 명 : 대만
제 조 업 자 명 : MEAN WELL Enterprises Co., Ltd.
제조공장의 주소 : No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
다수 공장의 명 : "이면기재" 의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4),10(2)or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2022 년 09 월 14 일
Year month day

한국산업기술시험원장
KOREA TESTING LABORATORY

※ 이 인증서는 「전기용품 및 생활용품 안전관리법 시행규칙」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류	1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components) 2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model) 3. 안전인증의 변경 현황 (Revisions Status)

□ 첨부 1 : 전기용품의 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST-series	T3.15 A 250 Vac	VDE
	Conquer	MST-series	T4 A 250 Vac	VDE
	Walter	2010	T3.15A,300V	VDE
	Walter	2010	T4A,300V	VDE
Y-capacitor (C3, C4)	Walsin	AC	Max 1000 pF Min 250 Vac 125 ℃	VDE
	Walsin	AH		
	TDK	CD		
	TDK	CS		
	Murata	KX		KC
	Murata	KH,KY		VDE
	Welson	KL, WD		VDE
	VISHAY	440L… VY1 WKP		VDE
	Huiwan	AR		VDE
	Wanming	HJ		VDE
Varistor (ZNR1, ZNR2)	Thinking	TVR14511-D	320Vac, 410Vdc	UL
	Centra Science	CNR14D511K		
	Joyin	14S511K, 14N511K		
	Nippon Chemicon	TNR14V511K		
	Thinking	TVR10471-D, TVR14471-D, TVR10471-V, TVR14471-V, TVR10471-K TVR14471-K	300Vac, 385Vdc,105℃ (Flame class of body coating complied with V-0)	UL
	Thinking	TVR10471-M, TVR14471-M	300Vac, 385Vdc,125℃ (Flame class of body coating complied with V-0)	UL

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
	Thinking	TVR14511-D TVR10511-D, TVR10511-V, TVR14511-V, TVR10511-K TVR14511-K	320Vac, 410Vdc,105℃ (Flame class of body coating complied with V-0)	UL
	Thinking	TVR10511-M, TVR14511-M	320Vac, 410Vdc,125℃ (Flame class of body coating complied with V-0)	UL
	Thinking	TVR10561-D, TVR14561-D, TVR10561-V, TVR14561-V, TVR10561-K TVR14561-K	350Vac, 450Vdc,105℃ (Flame class of body coating complied with V-0)	UL
	Thinking	TVR10561-M, TVR14561-M	350Vac, 450Vdc,125℃ (Flame class of body coating complied with V-0)	UL
	Centra Science	CNR-14D471K CNR-10D471K	300Vac, 385Vdc,105℃ (Flame class of body coating complied with V-0)	UL
	Centra Science	CNR-10D511K	320Vac, 410Vdc,105℃ (Flame class of body coating complied with V-0)	UL
	Centra Science	CNR-14D561K CNR-10D561K	350Vac, 450Vdc,105℃ (Flame class of body coating complied with V-0)	UL
	Huiwan	V-471K-10D(E)H, V-471K-14D(E)H	300 Vac,380 Vdc,	VDE
	Huiwan	V-511K-10D(E)H, V-511K-14D(E)H	320 Vac,410 Vdc,	VDE
	Huiwan	V-561K-10D(E)H, V-561K-14D(E)H	350 Vac,450 Vdc,	VDE
X Capacitors (C1, C2) (Optional) (X1 or X2 type) (C1,C2:	KEMET(Arcotronics)	R.46	Min 250 Vac, 110 ℃	ENEC
	KEMET(Arcotronics)	R.49	Min 250 Vac, 110 ℃	ENEC
	ISKRA	KNB 1530	Min 250 Vac, 100 ℃	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Max. 0.82uF)	ISKRA	KNB 1560	Min 250 Vac, 125 ℃	VDE
	Epcos	B3292#...	Min 250 Vac, 105 ℃	VDE
	Liow Gu	GS-L	Min 250 Vac, 100 ℃	VDE
	Pilkor	PCX2 335 PCX2 335M	Min 250 Vac, 105 ℃	ENEC
	Pilkor	PCX2 337	Min 250 Vac, 100 ℃	VDE
	Ultra	HQX	Min 250 Vac, 100 ℃	VDE
	Vishay BC Components	339	Min 250 Vac, 105 ℃	ENEC
	Cheng Tung	CTX	Min 250 Vac, 100 ℃	VDE
	Shiny Space	SX1	Min 250 Vac, 100 ℃	VDE
	NISSEI	MP1	Min 250 Vac, 100 ℃	VDE
	HUA JUNG COMPONENTS CO LTD	MKP	Min 250 Vac, 110 ℃	UL
	CARLI ELECTRONICS CO LTD	MPX	Min 250 Vac, 110 ℃	VDE
	Joey	MPX	Min 250 Vac, 105 ℃	VDE
	XIAMEN FARATRONIC CO LTD	MKP62	Min 250 Vac, 105 ℃	VDE
Photo Coupler (U3, U4)	Cosmo	K1010	dti.=0.7 ㎜ int. dcr=5.2 ㎜ ext. dcr=8 ㎜ thermal cycling test, 115 °C	VDE/UL
	Lite-On	LTV-817	dti.=0.8 ㎜ int. dcr=5.2 ㎜ ext. dcr=7.8 ㎜, 100 °C	VDE/UL
	Lite-On	LTV-817M	Dti. ≥ 0.4 mm, Ext. dcr ≥ 8.0 mm, thermal cycling test, 115 °C	VDE/UL
	Sharp	PC123	dti.=0.7 ㎜ int. dcr=5 ㎜ ext. dcr=8 ㎜ thermal cycling test, 110 °C	VDE/UL

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Bridging capacitor (C31)	Walsin	AH,AS	Max 1000 pF, Min 250 Vac, Y1	VDE
	TDK	CD	Max 1000 pF, Min 250 Vac, Y1	VDE
	Murata	KX	Max 1000 pF, Min 250 Vac, Y1	KC
	Welson	WD	Max 1000 pF, Min 250 Vac, Y1	VDE,UL
	VISHAY	VY1 WKP 440L…	Max 1000 pF, Min 250 Vac, Y1	VDE,UL
	Huiwan	AR	Max 1000 pF, Min 250 Vac, Y1	VDE
	Wanming	HJ	Max 1000 pF, Min 250 Vac, Y1	VDE
Choke (LF2)	Mean Well	TR-953	130 °C	_
Choke (LF3)	Mean Well	TR-948	130 °C	_
Choke (L1)	Mean Well	TR-954	130 °C	_
PFC Choke (L2) (For HLG-WX-YZ, W=100, 120 X=H or blank Y=12,15,20,24,30, 36,42,48,54 Z=A, B or blank)	Mean Well	TF-2072	130 °C	_
PFC Choke (L2) (For HLG-WX-YZ, W=150, 185 X=H or blank Y=15,20,24,30,36, 42,48,54 Z=A, B or blank)	Mean Well	TF-2071	130 °C	_

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
PFC Choke (L2) (For HLG-WX-12Z W=150, 185 X=H or blank Z=A, B or blank)	Mean Well	TF-1991	130 °C	-
Transformer (T1) (For HLG-120-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2053	Class B	-
Transformer (T1) (For HLG-120-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2054	Class B	-
Transformer (T1) (For HLG-100-20Z, HLG-120-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2055	Class B	-
Transformer (T1) (For HLG-100-24Z, HLG-120-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2056	Class B	_
Transformer (T1) (For HLG-100-30Z, HLG-120-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2057	Class B	_
Transformer (T1) (For HLG-100-36Z, HLG-120-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2058	Class B	_

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-100-42Z, HLG-120-42Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2059	Class B	-
Transformer (T1) (For HLG-100-48Z, HLG-120-48Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2060	Class B	-
Transformer (T1) (For HLG-100-54Z, HLG-120-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2061	Class B	-
Transformer (T1) (For HLG-120H-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2073	Class B	-
Transformer (T1) (For HLG-120H-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2074	Class B	-
Transformer (T1) (For HLG-100H-20Z, HLG-120H-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2075	Class B	-
Transformer (T1) (For HLG-100H-24Z, HLG-120H-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2076	Class B	-
Transformer (T1) (For HLG-100H-30Z, HLG-120H-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2077	Class B	-
Transformer (T1) (For HLG-100H-36Z, HLG-120H-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2078	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-100H-42Z, HLG-120H-42Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2079	Class B	-
Transformer (T1) (For HLG-100H-48Z, HLG-120H-48Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2080	Class B	-
Transformer (T1) (For HLG-100H-54Z, HLG-120H-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2081	Class B	-
Transformer (T1) (For HLG-150-12Z, HLG-185-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2016	Class B	-
Transformer (T1) (For HLG-150-15Z, HLG-185-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2017	Class B	-
Transformer (T1) (For HLG-150-20Z, HLG-185-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2018	Class B	-
Transformer (T1) (For HLG-150-24Z, HLG-185-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-1999	Class B	-
Transformer (T1) (For HLG-150-30Z, HLG-185-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2019	Class B	-
Transformer (T1) (For HLG-150-36Z, HLG-185-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2020	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150-42Z, HLG-185-42Z Z=A, B or blank)	Yu Jing	TF-2021	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-48Z, HLG-185-48Z, HLG-150H-54Z, HLG-185H-54Z Z=A, B or blank)	Yu Jing	TF-2022	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-54Z, HLG-185-54Z Z=A, B or blank)	Yu Jing	TF-2023	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-12Z, HLG-185H-12Z Z=A, B or blank)	Yu Jing	TF-2062	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-15Z, HLG-185H-15Z Z=A, B or blank)	Yu Jing	TF-2063	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-20Z, HLG-185H-20Z Z=A, B or blank)	Yu Jing	TF-2064	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-24Z, HLG-185H-24Z Z=A, B or blank)	Yu Jing	TF-2065	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-30Z, HLG-185H-30Z Z=A, B or blank)	Yu Jing	TF-2066	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-36Z, HLG-185H-36Z Z=A, B or blank)	Yu Jing	TF-2067	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150H-42Z, HLG-185H-42Z Z=A, B or blank)	Yu Jing	TF-2068	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-48Z, HLG-185H-48Z Z=A, B or blank)	Yu Jing	TF-2069	Class B	-
	Elytone			
	Mean Well			
Power Cord	Dongguan Lucky United	60245 IEC 57 H05RN-F	3C x 0.75 mm^2 3C x 1 mm^2	KC
	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F	3C x 0.75 mm^2 3C x 1 mm^2	KC
	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 mm^2 3C x 1 mm^2 3C x 1.5 mm^2	KC
	I-sheng	60227 IEC 53	3G x 0.75 mm^2 3G x 1.0 mm^2 3G x 1.5 mm^2 3G x 2.5 mm^2	KC
	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm^2	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm^2 3G x 1.0 mm^2	KC
	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm^2	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm^2 3G x 1.0 mm^2	KC
	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 mm^2	KC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
		K60227 IEC 53 H05VVH-F	3C x 0.75 mm^2 3C x 1.0 mm^2 3C x 1.5 mm^2 3C x 2.0 mm^2 3C x 2.5 mm^2	KC
	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75 mm^2 3C x 1.0 mm^2 3C x 1.5 mm^2 3C x 2.0 mm^2 3C x 2.5 mm^2	KC
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 ㎟- 1.0 ㎟	3G x 0.75 mm^2-1.0 mm^2	KC
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	K60245 IEC 57 H05RN-F 2C- 3CX0.75 ㎟- 1 ㎟	3C x 0.75 mm^2-1.0 mm^2	KC
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 ㎟-4 ㎟	3G x 1.0 mm^2-4.0 mm^2	KC
Potting Compound	DOW Coming Corp.	SYLGARD 160	Gray, rated 105 ℃	UL
	Shin Etsu Silicone	KET-132A/B	Natural, rated 105 ℃	
	DOW CORNING (SHANGHAI) CO LTD	CN8760 CN8760G	Black, rated 150 ℃	UL
	Guangzhou Huitian	5299	Gray, rated 150 ℃	UL
	Shin Etsu Silicone	KET-132 A/B H	Natural, rated 150 ℃	UL

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
	U-Bond	UB-5203A/B	Natural, rated 150 ℃	UL
	DOW CORNING	TC-6011	GY color, rated 150 ℃	UL
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D,JD-D1	Min. V-1, Min. 130 ℃	UL
	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		UL
	HONG SHIEN ENTERPRISE CO LTD	03V-0		UL
	HONG WEI ENTERPRISES CO LTD	79		UL
	HSU TZU ELECTRONIC CO LTD	4V0		UL
	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		UL
	HSIANG KUO INDUSTRIAL CO LTD	76V0A		UL
	GUANGDONG CHAOHUA	C-104,C-109		UL
	LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A		UL
	SUZHOU WUTONG ELECTRONICS CO LTD	GS-1 GS-3		UL
	CHANGZHOU HAIHONG	CCE-V0, HDCEM1		UL
	Junda	JD-E	V-1, 105 °C	UL
	GUANGZHOU TAIHE	THS	V-1, 105 °C	UL
	HONG SHIEN	-D	V-1, 105 °C	UL
	HSU TZU	DV2	V-1, 105 °C	UL
	JIIN-YU	JY-001, JY-003	V-1, 105 °C	UL

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-2	V-1, 105 °C	UL
	SUZHOU WUTONG ELECTRONICS CO LTD	GS-2, GS-4, GS-4S	V-1, 105 °C	UL
	RONG HUI	RH-3	V-1, 130 °C	UL
	CHANGZHOU AOHONG	AOH-2, AOH-8	V-1, 130 °C	UL
Mylar Sheet	-	-	Min.V-2, min.0.2 ㎜	UL

☐ 유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

   As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 21 조제 1 항 또는 제 38 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

   The Safety Certification will be cancelled under the Article 21(1), 38(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.

FP511-04

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-12A	I/P: 1.8A ; O/P: +12Vdc/13A (top cover with two holes, blocked with plastic cap)
HLG-185-12A	
HLG-185H-12B	I/P:1.8A ; O/P: +12Vdc/13A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-12B	
HLG-185H-12	I/P: 1.8A ; O/P: +12Vdc/13A
HLG-185-12	
HLG-185H-15A	I/P : 2.1A, O/P: +15Vdc/11.5A (top cover with two holes, blocked with plastic cap)
HLG-185-15A	
HLG-185H-15B	I/P : 2.1A, O/P: +15Vdc/11.5A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-15B	
HLG-185H-15	I/P : 2.1A, O/P: +15Vdc/11.5A
HLG-185-15	
HLG-185H-20A	I/P : 2.1A, O/P: +20Vdc/9.3A (top cover with two holes, blocked with plastic cap)
HLG-185-20A	
HLG-185H-20B	I/P : 2.1A, O/P: +20Vdc/9.3A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-20B	
HLG-185H-20	I/P : 2.1A, O/P: +20Vdc/9.3A
HLG-185-20	
HLG-185H-24A	I/P : 2.1A, O/P: +24Vdc/7.8A (O top cover with two holes, blocked with plastic cap)
HLG-185-24A	
HLG-185H-24B	I/P : 2.1A, O/P: +24Vdc/7.8A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-24B	
HLG-185H-24	I/P : 2.1A, O/P: +24Vdc/7.8A
HLG-185-24	
HLG-185H-30A	I/P : 2.1A, O/P: +30Vdc/6.2A (top cover with two holes, blocked with plastic cap)
HLG-185-30A	
HLG-185H-30B	I/P : 2.1A, O/P: +30Vdc/6.2A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-30B	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-30	I/P : 2.1A, O/P: +30Vdc/6.2A
HLG-185-30	
HLG-185H-36A	I/P : 2.1A, O/P: +36Vdc/5.2A (top cover with two holes, blocked with plastic cap)
HLG-185-36A	
HLG-185H-36B	I/P : 2.1A, O/P: +36Vdc/5.2A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-36B	
HLG-185H-36	I/P : 2.1A, O/P: +36Vdc/5.2A
HLG-185-36	
HLG-185H-42A	I/P : 2.1A, O/P: +42Vdc/4.4A (top cover with two holes, blocked with plastic cap)
HLG-185-42A	
HLG-185H-42B	I/P : 2.1A, O/P: +42Vdc/4.4A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-42B	
HLG-185H-42	I/P : 2.1A, O/P: +42Vdc/4.4A
HLG-185-42	
HLG-185H-48A	I/P : 2.1A, O/P: +48Vdc/3.9A (top cover with two holes, blocked with plastic cap)
HLG-185-48A	
HLG-185H-48B	I/P : 2.1A, O/P: +48Vdc/3.9A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-48B	
HLG-185H-48	I/P : 2.1A, O/P: +48Vdc/3.9A
HLG-185-48	
HLG-185H-54A	I/P : 2.1A, O/P: +54Vdc/3.45A (top cover with two holes, blocked with plastic cap)
HLG-185-54A	
HLG-185H-54B	I/P : 2.1A, O/P: +54Vdc/3.45A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-185-54B	
HLG-185H-54	I/P : 2.1A, O/P: +54Vdc/3.45A
HLG-150H-12A	I/P: 1.7A, O/P: +12Vdc/12.5A (top cover with two holes, blocked with plastic cap)
HLG-150-12A	
HLG-150H-12B	I/P: 1.7A, O/P: +12Vdc/12.5A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-12B	
HLG-150H-12	I/P: 1.7A, O/P: +12Vdc/12.5A
HLG-150-12	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-15A	I/P: 1.7A, O/P: +15Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-150-15A	
HLG-150H-15B	I/P: 1.7A, O/P: +15Vdc/10A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-15B	
HLG-150H-15	I/P: 1.7A, O/P: +15Vdc/10A
HLG-150-15	
HLG-150H-20A	I/P: 1.7A, O/P: +20Vdc/7.5A (cover with two holes, blocked with plastic cap)
HLG-150-20A	
HLG-150H-20B	I/P:1.7A, O/P: +20Vdc/7.5A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-20B	
HLG-150H-20	I/P: 1.7A, O/P: +20Vdc/7.5A
HLG-150-20	
HLG-150H-24A	I/P: 1.7A, O/P: +24Vdc/6.3A (top cover with two holes, blocked with plastic cap)
HLG-150-24A	
HLG-150H-24B	I/P: 1.7A, O/P: +24Vdc/6.3A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-24B	
HLG-150H-24	I/P: 1.7A, O/P: +24Vdc/6.3A
HLG-150-24	
HLG-150H-30A	I/P: 1.7A, O/P: +30Vdc/5A (top cover with two holes, blocked with plastic cap)
HLG-150-30A	
HLG-150H-30B	I/P: 1.7A, O/P: +30Vdc/5A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-30B	
HLG-150H-30	I/P: 1.7A, O/P: +30Vdc/5A
HLG-150-30	
HLG-150H-36A	I/P: 1.7A, O/P: +36Vdc/4.2A (cover with two holes, blocked with plastic cap)
HLG-150-36A	
HLG-150H-36B	I/P:1.7A, O/P: +36Vdc/4.2A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-36B	
HLG-150H-36	I/P: 1.7A, O/P: +36Vdc/4.2A
HLG-150-36	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-42A	I/P: 1.7A, O/P: +42Vdc/3.6A (cover with two holes, blocked with plastic cap)
HLG-150-42A	
HLG-150H-42B	I/P:1.7A, O/P: +42Vdc/3.6A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-42B	
HLG-150H-42	I/P: 1.7A, O/P: +42Vdc/3.6A
HLG-150-42	
HLG-150H-48A	I/P: 1.7A, O/P: +48Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-150-48A	
HLG-150H-48B	I/P:1.7A, O/P: +48Vdc/3.2A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-48B	
HLG-150H-48	I/P:1.7A, O/P: +48Vdc/3.2A
HLG-150-48	
HLG-150H-54A	I/P: 1.7A, O/P: +54Vdc/2.8A (top cover with two holes, blocked with plastic cap)
HLG-150-54A	
HLG-150H-54B	I/P:1.7A, O/P: +54Vdc/2.8A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-150-54B	
HLG-150H-54	I/P: 1.7A, O/P: +54Vdc/2.8A
HLG-150-54	
HLG-120H-12A	I/P: 1.4A, O/P: +12Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-120-12A	
HLG-120H-12B	I/P:1.4A, O/P: +12Vdc/10A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-12B	
HLG-120H-12	I/P: 1.4A, O/P: +12Vdc/10A
HLG-120-12	
HLG-120H-15A	I/P: 1.4A, O/P: +15Vdc/8.0A (top cover with two holes, blocked with plastic cap)
HLG-120-15A	
HLG-120H-15B	I/P:1.4A, O/P: +15Vdc/8.0A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-15B	
HLG-120H-15	I/P: 1.4A, O/P: +15Vdc/8.0A
HLG-120-15	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-20A	I/P: 1.4A, O/P: +20Vdc/6.0A (top cover with two holes, blocked with plastic cap)
HLG-120-20A	
HLG-120H-20B	I/P: 1.4A, O/P: +20Vdc/6.0A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-20B	
HLG-120H-20	I/P: 1.4A, O/P: +20Vdc/6.0A
HLG-120-20	
HLG-120H-24A	I/P: 1.4A, O/P: +24Vdc/5.0A (top cover with two holes, blocked with plastic cap)
HLG-120-24A	
HLG-120H-24B	I/P:1.4A, O/P: +24Vdc/5.0A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-24B	
HLG-120H-24	I/P: 1.4A, O/P: +24Vdc/5.0A
HLG-120-24	
HLG-120H-30A	I/P: 1.4A, O/P: +30Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-120-30A	
HLG-120H-30B	I/P: 1.4A, O/P: +30Vdc/4.0A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-30B	
HLG-120H-30	I/P: 1.4A, O/P: +30Vdc/4.0A
HLG-120-30	
HLG-120H-36A	I/P: 1.4A, O/P: +36Vdc/3.4A (top cover with two holes, blocked with plastic cap)
HLG-120-36A	
HLG-120H-36B	I/P: 1.4A, O/P: +36Vdc/3.4A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-36B	
HLG-120H-36	I/P: 1.4A, O/P: +36Vdc/3.4A
HLG-120-36	
HLG-120H-42A	I/P: 1.4A, O/P: +42Vdc/2.9A (top cover with two holes, blocked with plastic cap)
HLG-120-42A	
HLG-120H-42B	I/P: 1.4A, O/P: +42Vdc/2.9A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-42B	
HLG-120H-42	I/P: 1.4A, O/P: +42Vdc/2.9A
HLG-120-42	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-48A	I/P:1.4A, O/P: +48Vdc/2.5A (top cover with two holes, blocked with plastic cap)
HLG-120-48A	
HLG-120H-48B	I/P: 1.4A, O/P: +48Vdc/2.5A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-48B	
HLG-120H-48	I/P: 1.4A, O/P: +48Vdc/2.5A
HLG-120-48	
HLG-120H-54A	I/P: 1.4A, O/P: +54Vdc/2.3A (top cover with two holes, blocked with plastic cap)
HLG-120-54A	
HLG-120H-54B	I/P: 1.4A, O/P: +54Vdc/2.3A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-120-54B	
HLG-120H-54	I/P: 1.4A, O/P: +54Vdc/2.3A
HLG-120-54	
HLG-100H-20A	I/P: 1.2A, O/P: +20Vdc/4.8A (top cover with two holes, blocked with plastic cap)
HLG-100-20A	
HLG-100H-20B	I/P: 1.2A, O/P: +20Vdc/4.8A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-20B	
HLG-100H-20	I/P: 1.2A, O/P: +20Vdc/4.8A
HLG-100-20	
HLG-100H-24A	I/P: 1.2A, O/P: +24Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-100-24A	
HLG-100H-24B	I/P: 1.2A, O/P: +24Vdc/4.0A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-24B	
HLG-100H-24	I/P: 1.2A, O/P: +24Vdc/4.0A
HLG-100-24	
HLG-100H-30A	I/P: 1.2A, O/P: +30Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-100-30A	
HLG-100H-30B	I/P:1.2A, O/P: +30Vdc/3.2A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-30B	
HLG-100H-30	I/P: 1.2A, O/P: +30Vdc/3.2A
HLG-100-30	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-100H-36A	I/P: 1.2A, O/P: +36Vdc/2.65A (top cover with two holes, blocked with plastic cap)
HLG-100-36A	
HLG-100H-36B	I/P: 1.2A, O/P: +36Vdc/2.65A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-36B	
HLG-100H-36	I/P: 1.2A, O/P: +36Vdc/2.65A
HLG-100-36	
HLG-100H-42A	I/P: 1.2A, O/P: +42Vdc/2.28A (top cover with two holes, blocked with plastic cap)
HLG-100-42A	
HLG-100H-42B	I/P: 1.2A, O/P: +42Vdc/2.28A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-42B	
HLG-100H-42	I/P: 1.2A, O/P: +42Vdc/2.28A
HLG-100-42	
HLG-100H-48A	I/P: 1.2A, O/P: +48Vdc/2.0A (top cover with two holes, blocked with plastic cap)
HLG-100-48A	
HLG-100H-48B	I/P: 1.2A, O/P: +48Vdc/2.0A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-48B	
HLG-100H-48	I/P: 1.2A, O/P: +48Vdc/2.0A
HLG-100-48	
HLG-100H-54A	I/P: 1.2A, O/P: +54Vdc/1.77A (top cover with two holes, blocked with plastic cap)
HLG-100-54A	
HLG-100H-54B	I/P: 1.2A, O/P: +54Vdc/1.77A (B= O/P wire with min.18AWG and min. 20 AWG*2C;top cover no holes provided)
HLG-100-54B	
HLG-100H-54	I/P: 1.2A, O/P: +54Vdc/1.77A
HLG-100-54	
HLG-120-48A-110W	O/P : 110 W, 45.3 V, 2.24 A
HLG-150-54A-130W	O/P : 130W, 54.1 V, 2.34 A
HLG-100-20AB	I/P:1.2 A, O/P:+20 Vdc/4.8 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-20AB	
HLG-100-24AB	I/P:1.2 A, O/P:+24 Vdc/4.0 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-24AB	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-100-30AB	I/P:1.2 A, O/P:+30 Vdc/3.2 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-30AB	
HLG-100-36AB	I/P:1.2 A, O/P:+36 Vdc/2.65 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-36AB	
HLG-100-42AB	I/P:1.2 A, O/P:+42 Vdc/2.28 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-42AB	
HLG-100-48AB	I/P:1.2 A, O/P:+48 Vdc/2.0 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-48AB	
HLG-100-54AB	I/P:1.2 A, O/P:+54 Vdc/1.77 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-100H-54AB	
HLG-120-12AB	I/P:1.4 A, O/P:+12 Vdc/10 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-12AB	
HLG-120-15AB	I/P:1.4 A, O/P:+15 Vdc/8.0 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-15AB	
HLG-120-20AB	I/P:1.4 A, O/P:+20 Vdc/6.0 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-20AB	
HLG-120-24AB	I/P:1.4 A, O/P:+24 Vdc/5.0 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-24AB	
HLG-120-30AB	I/P:1.4 A, O/P:+30 Vdc/4.0 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-30AB	
HLG-120-36AB	I/P:1.4 A, O/P:+36 Vdc/3.4 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-36AB	
HLG-120-42AB	I/P:1.4 A, O/P:+42 Vdc/2.9 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-42AB	
HLG-120-48AB	I/P:1.4 A, O/P:+48 Vdc/2.5 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-48AB	
HLG-120-54AB	I/P:1.4 A, O/P:+54 Vdc/2.3 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-120H-54AB	
HLG-150-12AB	I/P:1.7 A, O/P:+12 Vdc/12.5 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-12AB	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150-15AB	I/P:1.7 A, O/P:+15 Vdc/10 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-15AB	
HLG-150-20AB	I/P:1.7 A, O/P:+20V dc/7.5 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-20AB	
HLG-150-24AB	I/P:1.7 A, O/P:+24 Vdc/6.3 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-24AB	
HLG-150-30AB	I/P:1.7 A, O/P:+30 Vdc/5 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-30AB	
HLG-150-36AB	I/P:1.7 A, O/P:+36 Vdc/4.2 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-36AB	
HLG-150-42AB	I/P:1.7 A, O/P:+42 Vdc/3.6 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-42AB	
HLG-150-48AB	I/P:1.7 A, O/P:+48 Vdc/3.2 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-48AB	
HLG-150-54AB	I/P:1.7 A, O/P:+54 Vdc/2.8 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-150H-54AB	
HLG-185-12AB	I/P:1.8 A, O/P:+12 Vdc/13 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-12AB	
HLG-185-15AB	I/P:2.1 A, O/P:+15 Vdc/11.5 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-15AB	
HLG-185-20AB	I/P:2.1A, O/P:+20 Vdc/9.3 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-20AB	
HLG-185-24AB	I/P:2.1 A, O/P:+24 Vdc/7.8 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-24AB	
HLG-185-30AB	I/P:2.1 A, O/P:+30 Vdc/6.2 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-30AB	
HLG-185-36AB	I/P:2.1 A, O/P:+36 Vdc/5.2 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-36AB	
HLG-185-42AB	I/P:2.1 A, O/P:+42 Vdc/4.4 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-42AB	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185-48AB	I/P:2.1 A, O/P:+48 Vdc/3.9 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-48AB	
HLG-185-54AB	I/P:2.1 A, O/P:+54 Vdc/3.45 A (AB=O/P wire with min.18AWG and min. 20 AWG*2C; top cover with two holes, blocked with plastic cap)
HLG-185H-54AB	

제품특기사항 및 시험조건
Remarks & Test conditions

1. Test Report Ref. No. : 11-1920-3066 (2011.08.04.)

2. Product Description

- DC or AC supplied electronic controlgear for LEDs
- Rating - PRI : AC100-240 V 50/60 Hz 200 W
  SEC : 54 Vd.c. 3.45 A
- PF : > 0.9
- Type of protection : IP 67
- tc : 90 ℃, ta : 60 ℃
- Protection class : Class I
- This product is totally enclosed electronic controlgear.
- Constant voltage type, Independent SELV equivalent

* factory information

- MEAN WELL (Guangzhou) Electronics Co.,Ltd.
  No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China

□ 본 제품의 검토내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다.
검토담당자 / 연락처 : 고객지원본부 인증융합평가센터 장 재용 / 02-860-1137
□ *If you have any question on product review, please contact the person below :*
Job holder: Customer Support Division, Certification Convergence Evaluation Center, J.Y.Jang / +82 2 860 1137

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions

1st Rev.) Critical component is changed. (11-1920-5308 : 2011.10.10.)

- Chang of Manufacturer

Component	Before	After
X-capacitor(C1, C2)	Ar otronics	KEMET(Arcotronics)

2nd Rev.) Addition of derivative models.(11-1920-0294 : 2012.02.20.)

- "HLG-120-48A-110W", "HLG-150-54A-130W"

3rd Rev.) Addition of factory (16-015152-11 : 2016.03.24.)

- Factory name : Mean Well (Guangzhou) Electronics Co., Ltd.

Address : 2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

4th Rev.) Change Addition factory name, address and president (16-067872-16 : 2016.12.08.)

- Before: Mean Well (Guangzhou) Electronics Co., Ltd. / Wang Fei Long

2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

After : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming

No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China

5th Rev.) Addition of components (17-021470-01 : 2017.04.17.)

- Addition of components

Component	Manufacturer	Model(Type)	Characteristics
Power Cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 ㎟-1.0 ㎟	3G x 0.75 mm^2-1.0 mm^2
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	245 IEC 57 H05RN-F 2C-3CX0.75 ㎟-1 ㎟	3C x 0.75 mm^2-1.0 mm^2
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 ㎟-4 ㎟	3G x 1.0 mm^2-4.0 mm^2

변경발급 내용 Contents of Certificate Revisions
6th Rev.) Addition of derivative models (19-055882-01-2 : 2019.09.04.) - Derivative models : HLG-100-20AB and 67 other models 7th Rev.) Change name, president and address of factory (21-082212-13-1 : 2022.01.11.) - Before : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China After : MEAN WELL (Guangzhou) Electronics Co.,Ltd. / Aden Wang No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China

변경발급 내용
Contents of Certificate Revisions

8th Rev.) Change of PCB layout and Addition of components

(22-050792-01-1 : 2022.09.14.)based on
CB Certificate Ref. No.:DE 2-034753-M1 (TUV RH LGA) and CB report No.,

CN21QFZS 002(TÜV Rheinland (Guangdong) Ltd.)

- differences with basic model for some models modified.

- PCB layout: Added alternative PCB layout for all models; Added one thermistor (RTH1) in front of BD1 base on original PCB layout, and changed original RTH1 to RTH3.

- Added alternative component

Components	Manufacturer	Model	Rating
Fuse (FS1)	Walter	2010	T3.15A,300V
	Walter	2010	T4A,300V
Y-capacitor (C3, C4)	Welson	KL, WD	Max 1000 pF Min 250 Vac 125 °C
	VISHAY	440L… VY1 WKP	Max 1000 pF Min 250 Vac 125 °C
	Huiwan	AR	Max 1000 pF Min 250 Vac 125 °C
	Wanming	HJ	Max 1000 pF Min 250 Vac 125 °C
Varistor (ZNR2)	Thinking	TVR14511-D	320Vac, 410Vdc
	Centra Science	CNR14D511K	
	Joyin	14S511K, 14N511K	
	Nippon Chemicon	TNR14V511K	

변경발급 내용 Contents of Certificate Revisions				
	Varistor (ZNR1, ZNR2)	Thinking	TVR10471-D, TVR14471-D, TVR10471-V, TVR14471-V, TVR10471-K TVR14471-K	300Vac, 385Vdc, 105 °C (Flame class of body coating complied with V-0)
		Thinking	TVR10471-M, TVR14471-M	300Vac, 385Vdc, 125 °C (Flame class of body coating complied with V-0)
		Thinking	TVR14511-D TVR10511-D, TVR10511-V, TVR14511-V, TVR10511-K TVR14511-K	320Vac, 410Vdc, 105 °C (Flame class of body coating complied with V-0)
		Thinking	TVR10511-M, TVR14511-M	320Vac, 410Vdc, 125 °C (Flame class of body coating complied with V-0)
		Thinking	TVR10561-D, TVR14561-D, TVR10561-V, TVR14561-V, TVR10561-K TVR14561-K	350Vac, 450Vdc, 105 °C (Flame clas s of body coating complied with V-0)
		Thinking	TVR10561-M, TVR14561-M	350Vac, 450Vdc, 125 °C (Flame class of body coating complied with V-0)
		Centra Science	CNR-14D471K CNR-10D471K	300Vac, 385Vdc, 105 °C (Flame class of body coating complied with V-0)
		Centra Science	CNR-10D511K	320Vac, 410Vdc, 105 °C (Flame class of body coating complied with V-0)

변경발급 내용 Contents of Certificate Revisions				
	Varistor (ZNR1, ZNR2)	Centra Science	CNR-14D561K CNR-10D561K	350Vac, 450Vdc, 105 °C (Flame class of body coating complied with V-0)
		Huiwan	V-471K-10D(E)H, V-471K-14D(E)H	300 Vac,380 Vdc,
		Huiwan	V-511K-10D(E)H, V-511K-14D(E)H	320 Vac,410 Vdc,
		Huiwan	V-561K-10D(E)H, V-561K-14D(E)H	350 Vac,450 Vdc,
	X Capacitors (C1, C2) (Optional) (X1 or X2 type) (C1,C2: Max. 0.82uF)	NISSEI	MP1	Min 250 Vac, 100 °C
		HUA JUNG COMPONENTS CO LTD	MKP	Min 250 Vac, 110 °C
		CARLI ELECTRONICS CO LTD	MPX	Min 250 Vac, 110 °C
		Joey	MPX	Min 250 Vac, 105 °C
		XIAMEN FARATRONIC CO LTD	MKP62	Min 250 Vac, 105 °C
	Photo Coupler (U3, U4)	Lite-On	LTV-817M	Dti. ≥ 0.4 mm, Ext. dcr ≥ 8.0 mm, thermal cycling test, 115 °C
	Bridging capacitor (C31)	Welson	WD	Max 1000 pF, Min 250 Vac, Y1
		VISHAY	VY1 WKP 440L…	Max 1000 pF, Min 250 Vac, Y1
		Huiwan	AR	Max 1000 pF, Min 250 Vac, Y1
		Wanming	HJ	Max 1000 pF, Min 250 Vac, Y1
	Power Cord	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F	3C x 0.75 mm2 3C x 1 mm2

변경발급 내용 Contents of Certificate Revisions				
	Potting Compound	Guangzhou Huitian	5299	Gray, rated 150 °C
		Shin Etsu Silicone	KET-132 A/B H	Natural, rated 150 °C
		U-Bond	UB-5203A/B	Natural, rated 150 °C
		DOW CORNING	TC-6011	GY color, rated 150 °C
	PCB	GUANGDONG CHAOHUA	C-104, C-109	Min. V-1, Min. 130 °C
		LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A	Min. V-1, Min. 130 °C
		SUZHOU WUTONG ELECTRONICS CO LTD	GS-1 GS-3	Min. V-1, Min. 130 °C
		CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-1, Min. 130 °C
		Junda	JD-E	V-1, 105 °C
		GUANGZHOU TAIHE	THS	V-1, 105 °C
		HONG SHIEN	-D	V-1, 105 °C
		HSU TZU	DV2	V-1, 105 °C
		JIIN-YU	JY-001, JY-003	V-1, 105 °C
		JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-2	V-1, 105 °C
		SUZHOU WUTONG ELECTRONICS CO LTD	GS-2, GS-4, GS-4S	V-1, 105 °C
		RONG HUI	RH-3	V-1, 130 °C
		CHANGZHOU AOHONG	AOH-2, AOH-8	V-1, 130 °C

변경발급 내용
Contents of Certificate Revisions

- Change Critical components rating information.

Component (Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
Y-capacitor (C3, C4)	Walsin	AC	Max 1000 pF Min 250 Vac 125 °C	VDE
	Walsin	AH	Max 1000 pF Min 250 Vac 125 °C	VDE
	TDK	CD	Max 1000 pF Min 250 Vac 125 °C	VDE
	TDK	CS	Max 1000 pF Min 250 Vac 125 °C	VDE
	Murata	KX	Max 1000 pF Min 250 Vac 125 °C	VDE
	Murata	KH,KY	Max 1000 pF Min 250 Vac 125 °C	VDE
X Capacitors (C1, C2) (Optional) (X1 or X2 type) (C1,C2: Max. 0.82uF)	KEMET(Arcotronics)	R.46	Min 250 Vac, 110 ℃	ENEC
	KEMET(Arcotronics)	R.49	Min 250 Vac, 110 ℃	ENEC
	ISKRA	KNB 1530	Min 250 Vac, 100 ℃	VDE
	ISKRA	KNB 1560	Min 250 Vac, 125 ℃	VDE
	Epcos	B3292#...	Min 250 Vac, 105 ℃	VDE
	Liow Gu	GS-L	Min 250 Vac, 100 ℃	VDE
	Pilkor	PCX2 335 PCX2 335M	Min 250 Vac, 105 °C	ENEC
	Pilkor	PCX2 337	Min 250 Vac, 100 ℃	VDE
	Ultra	HQX	Min 250 Vac, 100 ℃	VDE
	Vishay BC Components	339	Min 250 Vac, 105 ℃	ENEC
	Cheng Tung	CTX	Min 250 Vac, 100 ℃	VDE
	Shiny Space	SX1	Min 250 Vac, 100 ℃	VDE

변경발급 내용
Contents of Certificate Revisions

Bridging capacitor (C31)	Walsin	AH,AS	Max 1000 pF, Min 250 Vac, Y1	VDE
	TDK	CD	Max 1000 pF, Min 250 Vac, Y1	VDE
	Murata	KX	Max 1000 pF, Min 250 Vac, Y1	VDE
Power Cord	Dongguan Lucky United	60245 IEC 5 7 H05RN-F	3C x 0.75 mm^2 3C x 1 mm^2	KC
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	K60245 IEC 57 H05RN-F 2C-3CX0.75 mm^2-1 mm^2	3C x 0.75 mm^2-1.0 mm^2	KC
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D,JD-D1	Min. V-1, Min. 130 ℃	UL

- Delete Critical components information

Component	Manufacturer	Model	Rating	Tested by
Varistor (ZNR2)	Thinking	TVR10361-D	230 Vac, 300Vdc	UL
	Centra Science	CNR14D361K		
	Joyin	14S361K, 14N361K		
	Nippon Chemicon	TVR14V361K		

FP511-06

접 수 번 호
(Receipt No.) : 21-082212-13-1

안 전 인 증 서

Safety Certificate

안 전 인 증 번 호
(Certificate No.) : SZ11007-11005G

제 조 업 자/수 입 업 자 명
(Manufacturer/importer) : MEAN WELL Enterprises Co., Ltd.

주 소
(Address) : No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)

제 품 명
(Product) : 조명기구용컨버터(LED용)
(Electronic controlgear)

기 본 모 델 명
(Basic Model) : HLG-185-54

파 생 모 델 명
(Series Model) : See the attachment 2

정격/안전기준상의 모델구분
(Rating) : AC100-240 V, 50/60 Hz, 2.0-0.85 A, 200 W
(Output : DC 54 V, 3.45 A)

시 험 기 준
(Standard) : KC61347-1(2015-09), KC61347-2-13(2015-09),
K00015(2009-12), K61547(2009-12)

본 인증서는 제 조 국 명 : 대만
제 조 업 자 명 : MEAN WELL Enterprises Co., Ltd.
제조공장의 주소 : No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
다수 공장의 명 : "이면기재" 의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4),10(2)or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2022 년 01 월 11 일
Year month day

한국산업기술시험원장
KOREA TESTING LABORATORY

※ 이 인증서는 「전기용품 및 생활용품 안전관리법 시행규칙」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류	1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components) 2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model) 3. 안전인증의 변경 현황 (Revisions Status)

안전인증시의 조건 : 동 제품의 생산 시 자체검사를 실시하고 안전인증 시 등록된 부품누락 및 임의 변경하지 말 것.
(Terms of the Safety Certification :Factories have to conduct the 'Self Product Verification' and it is prohibited to omit and modify the components registered on the Safety Certificate when producing the certified products.)

Korea Testing Laboratory

안전인증번호
Certification No. : SZ11007-11005G

다수 공장의 현황
(The status of Multiple Factories)

No	현 황	
1	다수 공장의 명 (Name)	MEAN WELL (Guangzhou) Electronics Co.,Ltd.
	주소 (Address)	No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guang dong, China
	제조국명 (Origin)	중국

□ 첨부 1 : 전기용품의 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST-series	T3.15 A 250 Vac	VDE
	Conquer	MST-series	T4 A 250 Vac	VDE
Y-capacitor (C3, C4)	Walsin	AC	1000 pF 250 Vac 125 ℃	VDE
	Walsin	AH		
	TDK	CD		
	TDK	CS		
	Murata	KX		KC
	Murata	KH		KC
Varistor (ZNR2)	Thinking	TVR10361-D	230 Vac, 300Vdc	UL
	Centra Science	CNR14D361K		
	Joyin	14S361K, 14N361K		
	Nippon Chemicon	TVR14V361K		
Varistor (ZNR1)	Thinking	TVR14511-D	320Vac, 410Vdc	UL
	Centra Science	CNR14D511K		
	Joyin	14S511K, 14N511K		
	Nippon Chemicon	TNR14V511K		
X-capacitor (C1, C2) (C1=0.33 ㎌, C2=0.22 ㎌ for HLG-100X-YZ, HLG-120X-Z, C1=C2=0.47 ㎌ for HLG-150X-YZ, HLG-185X-YZ X=H or blank Y=12,15,20,24,30,36,42,48,54 Z=A, B or blank)	KEMET(Arcotronics)	R.46	300 Vac, 110 ℃	ENEC
	KEMET(Arcotronics)	R.49	310 Vac, 110 ℃	ENEC
	ISKRA	KNB 1530	300 Vac, 100 ℃	VDE
	ISKRA	KNB 1560	300 Vac, 125 ℃	VDE
	Epcos	B3292#...	305 Vac, 105 ℃	VDE
	Liow Gu	GS-L	275 Vac, 100 ℃	VDE
	Pilkor	PCX2 335M	275 Vac, 105 ℃	ENEC
	Pilkor	PCX2 337	275 Vac, 100 ℃	VDE
	Ultra	HQX	275 Vac, 100 ℃	VDE
	Vishay BC Components	339	275 Vac, 105 ℃	ENEC
	Cheng Tung	CTX	300 Vac, 100 ℃	VDE
	Shiny Space	SX1	300 Vac, 100 ℃	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Photo Coupler (U3, U4)	Cosmo	K1010	dti.=0.7 mm int. dcr=5.2 mm ext. dcr=8 mm thermal cycling test, 115 ℃	VDE/UL
	Lite-On	LTV-817	dti.=0.8 mm int. dcr=5.2 mm ext. dcr=7.8 mm, 100 ℃	VDE/UL
	Sharp	PC123	dti.=0.7 mm int. dcr=5 mm ext. dcr=8 mm thermal cycling test, 110 ℃	VDE/UL
Bridging capacitor (C31)	Walsin	AH	1000 pF, 250 Vac, Y1	VDE
	TDK	CD	1000 pF, 250 Vac, Y1	VDE
	Murata	KX	1000 pF, 250 Vac, Y1	KC
Choke (LF2)	Mean Well	TR-953	130 ℃	-
Choke (LF3)	Mean Well	TR-948	130 ℃	-
Choke (L1)	Mean Well	TR-954	130 ℃	-
PFC Choke (L2) (For HLG-WX-YZ, W=100, 120 X=H or blank Y=12,15,20,24,30,36,42,48,54 Z=A, B or blank)	Mean Well	TF-2072	130 ℃	-
PFC Choke (L2) (For HLG-WX-YZ, W=150, 185 X=H or blank Y=15,20,24,30,36,42,48,54 Z=A, B or blank)	Mean Well	TF-2071	130 ℃	-
PFC Choke (L2) (For HLG-WX-12Z W=150, 185 X=H or blank Z=A, B or blank)	Mean Well	TF-1991	130 ℃	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-120-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2053	Class B	-
Transformer (T1) (For HLG-120-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2054	Class B	-
Transformer (T1) (For HLG-100-20Z, HLG-120-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2055	Class B	-
Transformer (T1) (For HLG-100-24Z, HLG-120-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2056	Class B	-
Transformer (T1) (For HLG-100-30Z, HLG-120-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2057	Class B	-
Transformer (T1) (For HLG-100-36Z, HLG-120-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2058	Class B	-
Transformer (T1) (For HLG-100-42Z, HLG-120-42Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2059	Class B	-
Transformer (T1) (For HLG-100-48Z, HLG-120-48Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2060	Class B	-
Transformer (T1) (For HLG-100-54Z, HLG-120-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2061	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-120H-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2073	Class B	-
Transformer (T1) (For HLG-120H-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2074	Class B	-
Transformer (T1) (For HLG-100H-20Z, HLG-120H-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2075	Class B	-
Transformer (T1) (For HLG-100H-24Z, HLG-120H-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2076	Class B	-
Transformer (T1) (For HLG-100H-30Z, HLG-120H-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2077	Class B	-
Transformer (T1) (For HLG-100H-36Z, HLG-120H-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2078	Class B	-
Transformer (T1) (For HLG-100H-42Z, HLG-120H-42Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2079	Class B	-
Transformer (T1) (For HLG-100H-48Z, HLG-120H-48Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2080	Class B	-
Transformer (T1) (For HLG-100H-54Z, HLG-120H-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2081	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150-12Z, HLG-185-12Z Z=A, B or blank)	Yu Jing	TF-2016	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-15Z, HLG-185-15Z Z=A, B or blank)	Yu Jing	TF-2017	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-20Z, HLG-185-20Z Z=A, B or blank)	Yu Jing	TF-2018	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-24Z, HLG-185-24Z Z=A, B or blank)	Yu Jing	TF-1999	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-30Z, HLG-185-30Z Z=A, B or blank)	Yu Jing	TF-2019	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-36Z, HLG-185-36Z Z=A, B or blank)	Yu Jing	TF-2020	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-42Z, HLG-185-42Z Z=A, B or blank)	Yu Jing	TF-2021	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-48Z, HLG-185-48Z, HLG-150H-54Z, HLG-185H-54Z Z=A, B or blank)	Yu Jing	TF-2022	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-54Z, HLG-185-54Z Z=A, B or blank)	Yu Jing	TF-2023	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150H-12Z, HLG-185H-12Z Z=A, B or blank)	Yu Jing	TF-2062	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-15Z, HLG-185H-15Z Z=A, B or blank)	Yu Jing	TF-2063	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-20Z, HLG-185H-20Z Z=A, B or blank)	Yu Jing	TF-2064	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-24Z, HLG-185H-24Z Z=A, B or blank)	Yu Jing	TF-2065	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-30Z, HLG-185H-30Z Z=A, B or blank)	Yu Jing	TF-2066	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-36Z, HLG-185H-36Z Z=A, B or blank)	Yu Jing	TF-2067	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-42Z, HLG-185H-42Z Z=A, B or blank)	Yu Jing	TF-2068	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-48Z, HLG-185H-48Z Z=A, B or blank)	Yu Jing	TF-2069	Class B	-
	Elytone			
	Mean Well			
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 mm^2 3C x 1 mm^2	KC
	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 mm^2 3C x 1 mm^2 3C x 1.5 mm^2	KC
	I-sheng	60227 IEC 53	3G x 0.75 mm^2 3G x 1.0 mm^2 3G x 1.5 mm^2 3G x 2.5 mm^2	KC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm^2	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm^2 3G x 1.0 mm^2	KC
	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm^2	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm^2 3G x 1.0 mm^2	KC
	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 mm^2	KC
		K60227 IEC 53 H05VVH-F	3C x 0.75 mm^2 3C x 1.0 mm^2 3C x 1.5 mm^2 3C x 2.0 mm^2 3C x 2.5 mm^2	KC
	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75 mm^2 3C x 1.0 mm^2 3C x 1.5 mm^2 3C x 2.0 mm^2 3C x 2.5 mm^2	KC
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 mm^2-1.0 mm^2	3G x 0.75 mm^2-1.0 mm^2	KC
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	245 IEC 57 H05RN-F 2C-3CX0.75 mm^2-1 mm^2	3C x 0.75 mm^2-1.0 mm^2	KC
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 mm^2-4 mm^2	3G x 1.0 mm^2-4.0 mm^2	KC
Potting Compound	DOW Coming Corp.	SYLGARD 160	Gray, rated 105 ℃	UL
	Shin Etsu Silicone	KET-132A/B	Natural, rated 105 ℃	
	DOW CORNING (SHANGHAI) CO LTD	CN8760 CN8760G	Black, rated 150 ℃	UL
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D	Min. V-1, Min. 130 ℃	UL
	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		UL
	HONG SHIEN ENTERPRISE CO LTD	03V-0		UL
	HONG WEI ENTERPRISES CO LTD	79		UL
	HSU TZU ELECTRONIC CO LTD	4V0		UL

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		UL
	HSIANG KUO INDUSTRIAL CO LTD	76V0A		UL
Mylar Sheet	-	-	Min.V-2, min.0.2 ㎜	UL

☐ 유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

   As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제21조제1항 또는 제38조제1항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

   The Safety Certification will be cancelled under the Article 21(1), 38(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.

FP511-04

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-12A	I/P: 1.8A ; O/P: +12Vdc/13A (top cover with two holes, blocked with plastic cap)
HLG-185-12A	
HLG-185H-12B	I/P:1.8A ; O/P: +12Vdc/13A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-12B	
HLG-185H-12	I/P: 1.8A ; O/P: +12Vdc/13A
HLG-185-12	
HLG-185H-15A	I/P : 2.1A, O/P: +15Vdc/11.5A (top cover with two holes, blocked with plastic cap)
HLG-185-15A	
HLG-185H-15B	I/P : 2.1A, O/P: +15Vdc/11.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-15B	
HLG-185H-15	I/P : 2.1A, O/P: +15Vdc/11.5A
HLG-185-15	
HLG-185H-20A	I/P : 2.1A, O/P: +20Vdc/9.3A (top cover with two holes, blocked with plastic cap)
HLG-185-20A	
HLG-185H-20B	I/P : 2.1A, O/P: +20Vdc/9.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-20B	
HLG-185H-20	I/P : 2.1A, O/P: +20Vdc/9.3A
HLG-185-20	
HLG-185H-24A	I/P : 2.1A, O/P: +24Vdc/7.8A (O top cover with two holes, blocked with plastic cap)
HLG-185-24A	
HLG-185H-24B	I/P : 2.1A, O/P: +24Vdc/7.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-24B	
HLG-185H-24	I/P : 2.1A, O/P: +24Vdc/7.8A
HLG-185-24	
HLG-185H-30A	I/P : 2.1A, O/P: +30Vdc/6.2A (top cover with two holes, blocked with plastic cap)
HLG-185-30A	
HLG-185H-30B	I/P : 2.1A, O/P: +30Vdc/6.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-30B	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-30	I/P : 2.1A, O/P: +30Vdc/6.2A
HLG-185-30	
HLG-185H-36A	I/P : 2.1A, O/P: +36Vdc/5.2A (top cover with two holes, blocked with plastic cap)
HLG-185-36A	
HLG-185H-36B	I/P : 2.1A, O/P: +36Vdc/5.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-36B	
HLG-185H-36	I/P : 2.1A, O/P: +36Vdc/5.2A
HLG-185-36	
HLG-185H-42A	I/P : 2.1A, O/P: +42Vdc/4.4A (top cover with two holes, blocked with plastic cap)
HLG-185-42A	
HLG-185H-42B	I/P : 2.1A, O/P: +42Vdc/4.4A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-42B	
HLG-185H-42	I/P : 2.1A, O/P: +42Vdc/4.4A
HLG-185-42	
HLG-185H-48A	I/P : 2.1A, O/P: +48Vdc/3.9A (top cover with two holes, blocked with plastic cap)
HLG-185-48A	
HLG-185H-48B	I/P : 2.1A, O/P: +48Vdc/3.9A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-48B	
HLG-185H-48	I/P : 2.1A, O/P: +48Vdc/3.9A
HLG-185-48	
HLG-185H-54A	I/P : 2.1A, O/P: +54Vdc/3.45A (top cover with two holes, blocked with plastic cap)
HLG-185-54A	
HLG-185H-54B	I/P : 2.1A, O/P: +54Vdc/3.45A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-54B	
HLG-185H-54	Model name
HLG-150H-12A	I/P: 1.7A, O/P: +12Vdc/12.5A (top cover with two holes, blocked with plastic cap)
HLG-150-12A	
HLG-150H-12B	I/P: 1.7A, O/P: +12Vdc/12.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-12B	
HLG-150H-12	I/P: 1.7A, O/P: +12Vdc/12.5A
HLG-150-12	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-15A	I/P: 1.7A, O/P: +15Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-150-15A	
HLG-150H-15B	I/P: 1.7A, O/P: +15Vdc/10A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-15B	
HLG-150H-15	I/P: 1.7A, O/P: +15Vdc/10A
HLG-150-15	
HLG-150H-20A	I/P: 1.7A, O/P: +20Vdc/7.5A (cover with two holes, blocked with plastic cap)
HLG-150-20A	
HLG-150H-20B	I/P:1.7A, O/P: +20Vdc/7.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-20B	
HLG-150H-20	I/P: 1.7A, O/P: +20Vdc/7.5A
HLG-150-20	
HLG-150H-24A	I/P: 1.7A, O/P: +24Vdc/6.3A (top cover with two holes, blocked with plastic cap)
HLG-150-24A	
HLG-150H-24B	I/P: 1.7A, O/P: +24Vdc/6.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-24B	
HLG-150H-24	I/P: 1.7A, O/P: +24Vdc/6.3A
HLG-150-24	
HLG-150H-30A	I/P: 1.7A, O/P: +30Vdc/5A (top cover with two holes, blocked with plastic cap)
HLG-150-30A	
HLG-150H-30B	I/P: 1.7A, O/P: +30Vdc/5A (IO/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-30B	
HLG-150H-30	I/P: 1.7A, O/P: +30Vdc/5A
HLG-150-30	
HLG-150H-36A	I/P: 1.7A, O/P: +36Vdc/4.2A (cover with two holes, blocked with plastic cap)
HLG-150-36A	
HLG-150H-36B	I/P:1.7A, O/P: +36Vdc/4.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-36B	
HLG-150H-36	I/P: 1.7A, O/P: +36Vdc/4.2A
HLG-150-36	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-42A	I/P: 1.7A, O/P: +42Vdc/3.6A (cover with two holes, blocked with plastic cap)
HLG-150-42A	
HLG-150H-42B	I/P:1.7A, O/P: +42Vdc/3.6A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-42B	
HLG-150H-42	I/P: 1.7A, O/P: +42Vdc/3.6A
HLG-150-42	
HLG-150H-48A	I/P: 1.7A, O/P: +48Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-150-48A	
HLG-150H-48B	I/P:1.7A, O/P: +48Vdc/3.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-48B	
HLG-150H-48	I/P:1.7A, O/P: +48Vdc/3.2A
HLG-150-48	
HLG-150H-54A	I/P: 1.7A, O/P: +54Vdc/2.8A (top cover with two holes, blocked with plastic cap)
HLG-150-54A	
HLG-150H-54B	I/P:1.7A, O/P: +54Vdc/2.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-54B	
HLG-150H-54	I/P: 1.7A, O/P: +54Vdc/2.8A
HLG-150-54	
HLG-120H-12A	I/P: 1.4A, O/P: +12Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-120-12A	
HLG-120H-12B	I/P:1.4A, O/P: +12Vdc/10A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-12B	
HLG-120H-12	I/P: 1.4A, O/P: +12Vdc/10A
HLG-120-12	
HLG-120H-15A	I/P: 1.4A, O/P: +15Vdc/8.0A (top cover with two holes, blocked with plastic cap)
HLG-120-15A	
HLG-120H-15B	I/P:1.4A, O/P: +15Vdc/8.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-15B	
HLG-120H-15	I/P: 1.4A, O/P: +15Vdc/8.0A
HLG-120-15	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-20A	I/P: 1.4A, O/P: +20Vdc/6.0A (top cover with two holes, blocked with plastic cap)
HLG-120-20A	
HLG-120H-20B	I/P: 1.4A, O/P: +20Vdc/6.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-20B	
HLG-120H-20	I/P: 1.4A, O/P: +20Vdc/6.0A
HLG-120-20	
HLG-120H-24A	I/P: 1.4A, O/P: +24Vdc/5.0A (top cover with two holes, blocked with plastic cap)
HLG-120-24A	
HLG-120H-24B	I/P:1.4A, O/P: +24Vdc/5.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-24B	
HLG-120H-24	I/P: 1.4A, O/P: +24Vdc/5.0A
HLG-120-24	
HLG-120H-30A	I/P: 1.4A, O/P: +30Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-120-30A	
HLG-120H-30B	I/P: 1.4A, O/P: +30Vdc/4.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-30B	
HLG-120H-30	I/P: 1.4A, O/P: +30Vdc/4.0A
HLG-120-30	
HLG-120H-36A	I/P: 1.4A, O/P: +36Vdc/3.4A (top cover with two holes, blocked with plastic cap)
HLG-120-36A	
HLG-120H-36B	I/P: 1.4A, O/P: +36Vdc/3.4A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-36B	
HLG-120H-36	I/P: 1.4A, O/P: +36Vdc/3.4A
HLG-120-36	
HLG-120H-42A	I/P: 1.4A, O/P: +42Vdc/2.9A (top cover with two holes, blocked with plastic cap)
HLG-120-42A	
HLG-120H-42B	I/P: 1.4A, O/P: +42Vdc/2.9A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-42B	
HLG-120H-42	I/P: 1.4A, O/P: +42Vdc/2.9A
HLG-120-42	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-48A	I/P:1.4A, O/P: +48Vdc/2.5A (top cover with two holes, blocked with plastic cap)
HLG-120-48A	
HLG-120H-48B	I/P: 1.4A, O/P: +48Vdc/2.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-48B	
HLG-120H-48	I/P: 1.4A, O/P: +48Vdc/2.5A
HLG-120-48	
HLG-120H-54A	I/P: 1.4A, O/P: +54Vdc/2.3A (top cover with two holes, blocked with plastic cap)
HLG-120-54A	
HLG-120H-54B	I/P: 1.4A, O/P: +54Vdc/2.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-54B	
HLG-120H-54	I/P: 1.4A, O/P: +54Vdc/2.3A
HLG-120-54	
HLG-100H-20A	I/P: 1.2A, O/P: +20Vdc/4.8A (top cover with two holes, blocked with plastic cap)
HLG-100-20A	
HLG-100H-20B	I/P: 1.2A, O/P: +20Vdc/4.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-20B	
HLG-100H-20	I/P: 1.2A, O/P: +20Vdc/4.8A
HLG-100-20	
HLG-100H-24A	I/P: 1.2A, O/P: +24Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-100-24A	
HLG-100H-24B	I/P: 1.2A, O/P: +24Vdc/4.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-24B	
HLG-100H-24	I/P: 1.2A, O/P: +24Vdc/4.0A
HLG-100-24	
HLG-100H-30A	I/P: 1.2A, O/P: +30Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-100-30A	
HLG-100H-30B	I/P:1.2A, O/P: +30Vdc/3.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-30B	
HLG-100H-30	I/P: 1.2A, O/P: +30Vdc/3.2A
HLG-100-30	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-100H-36A	I/P: 1.2A, O/P: +36Vdc/2.65A (top cover with two holes, blocked with plastic cap)
HLG-100-36A	
HLG-100H-36B	I/P: 1.2A, O/P: +36Vdc/2.65A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-36B	
HLG-100H-36	I/P: 1.2A, O/P: +36Vdc/2.65A
HLG-100-36	
HLG-100H-42A	I/P: 1.2A, O/P: +42Vdc/2.28A (top cover with two holes, blocked with plastic cap)
HLG-100-42A	
HLG-100H-42B	I/P: 1.2A, O/P: +42Vdc/2.28A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-42B	
HLG-100H-42	I/P: 1.2A, O/P: +42Vdc/2.28A
HLG-100-42	
HLG-100H-48A	I/P: 1.2A, O/P: +48Vdc/2.0A (top cover with two holes, blocked with plastic cap)
HLG-100-48A	
HLG-100H-48B	I/P: 1.2A, O/P: +48Vdc/2.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-48B	
HLG-100H-48	I/P: 1.2A, O/P: +48Vdc/2.0A
HLG-100-48	
HLG-100H-54A	I/P: 1.2A, O/P: +54Vdc/1.77A (top cover with two holes, blocked with plastic cap)
HLG-100-54A	
HLG-100H-54B	I/P: 1.2A, O/P: +54Vdc/1.77A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-54B	
HLG-100H-54	I/P: 1.2A, O/P: +54Vdc/1.77A
HLG-100-54	
HLG-120-48A-110W	O/P : 110 W, 45.3 V, 2.24 A
HLG-150-54A-130W	O/P : 130W, 54.1 V, 2.34 A
HLG-100-20AB	I/P:1.2 A, O/P:+20 Vdc/4.8 A (top cover with two holes, blocked with plastic cap)
HLG-100H-20AB	
HLG-100-24AB	I/P:1.2 A, O/P:+24 Vdc/4.0 A (top cover with two holes, blocked with plastic cap)
HLG-100H-24AB	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-100-30AB	I/P:1.2 A, O/P:+30 Vdc/3.2 A (top cover with two holes, blocked with plastic cap)
HLG-100H-30AB	
HLG-100-36AB	I/P:1.2 A, O/P:+36 Vdc/2.65 A (top cover with two holes, blocked with plastic cap)
HLG-100H-36AB	
HLG-100-42AB	I/P:1.2 A, O/P:+42 Vdc/2.28 A (top cover with two holes, blocked with plastic cap)
HLG-100H-42AB	
HLG-100-48AB	I/P:1.2 A, O/P:+48 Vdc/2.0 A (top cover with two holes, blocked with plastic cap)
HLG-100H-48AB	
HLG-100-54AB	I/P:1.2 A, O/P:+54 Vdc/1.77 A (top cover with two holes, blocked with plastic cap)
HLG-100H-54AB	
HLG-120-12AB	I/P:1.4 A, O/P:+12 Vdc/10 A (top cover with two holes, blocked with plastic cap)
HLG-120H-12AB	
HLG-120-15AB	I/P:1.4 A, O/P:+15 Vdc/8.0 A (top cover with two holes, blocked with plastic cap)
HLG-120H-15AB	
HLG-120-20AB	I/P:1.4 A, O/P:+20 Vdc/6.0 A (top cover with two holes, blocked with plastic cap)
HLG-120H-20AB	
HLG-120-24AB	I/P:1.4 A, O/P:+24 Vdc/5.0 A (top cover with two holes, blocked with plastic cap)
HLG-120H-24AB	
HLG-120-30AB	I/P:1.4 A, O/P:+30 Vdc/4.0 A (top cover with two holes, blocked with plastic cap)
HLG-120H-30AB	
HLG-120-36AB	I/P:1.4 A, O/P:+36 Vdc/3.4 A (top cover with two holes, blocked with plastic cap)
HLG-120H-36AB	
HLG-120-42AB	I/P:1.4 A, O/P:+42 Vdc/2.9 A (top cover with two holes, blocked with plastic cap)
HLG-120H-42AB	
HLG-120-48AB	I/P:1.4 A, O/P:+48 Vdc/2.5 A (top cover with two holes, blocked with plastic cap)
HLG-120H-48AB	
HLG-120-54AB	I/P:1.4 A, O/P:+54 Vdc/2.3 A (top cover with two holes, blocked with plastic cap)
HLG-120H-54AB	
HLG-150-12AB	I/P:1.7 A, O/P:+12 Vdc/12.5 A (top cover with two holes, blocked with plastic cap)
HLG-150H-12AB	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150-15AB	I/P:1.7 A, O/P:+15 Vdc/10 A (top cover with two holes, blocked with plastic cap)
HLG-150H-15AB	
HLG-150-20AB	I/P:1.7 A, O/P:+20V dc/7.5 A (top cover with two holes, blocked with plastic cap)
HLG-150H-20AB	
HLG-150-24AB	I/P:1.7 A, O/P:+24 Vdc/6.3 A (top cover with two holes, blocked with plastic cap)
HLG-150H-24AB	
HLG-150-30AB	I/P:1.7 A, O/P:+30 Vdc/5 A (top cover with two holes, blocked with plastic cap)
HLG-150H-30AB	
HLG-150-36AB	I/P:1.7 A, O/P:+36 Vdc/4.2 A (top cover with two holes, blocked with plastic cap)
HLG-150H-36AB	
HLG-150-42AB	I/P:1.7 A, O/P:+42 Vdc/3.6 A (top cover with two holes, blocked with plastic cap)
HLG-150H-42AB	
HLG-150-48AB	I/P:1.7 A, O/P:+48 Vdc/3.2 A (top cover with two holes, blocked with plastic cap)
HLG-150H-48AB	
HLG-150-54AB	I/P:1.7 A, O/P:+54 Vdc/2.8 A (top cover with two holes, blocked with plastic cap)
HLG-150H-54AB	
HLG-185-12AB	I/P:1.8 A, O/P:+12 Vdc/13 A (top cover with two holes, blocked with plastic cap)
HLG-185H-12AB	
HLG-185-15AB	I/P:2.1 A, O/P:+15 Vdc/11.5 A (top cover with two holes, blocked with plastic cap)
HLG-185H-15AB	
HLG-185-20AB	I/P:2.1A, O/P:+20 Vdc/9.3 A (top cover with two holes, blocked with plastic cap)
HLG-185H-20AB	
HLG-185-24AB	I/P:2.1 A, O/P:+24 Vdc/7.8 A (top cover with two holes, blocked with plastic cap)
HLG-185H-24AB	
HLG-185-30AB	I/P:2.1 A, O/P:+30 Vdc/6.2 A (top cover with two holes, blocked with plastic cap)
HLG-185H-30AB	
HLG-185-36AB	I/P:2.1 A, O/P:+36 Vdc/5.2 A (top cover with two holes, blocked with plastic cap)
HLG-185H-36AB	
HLG-185-42AB	I/P:2.1 A, O/P:+42 Vdc/4.4 A (top cover with two holes, blocked with plastic cap)
HLG-185H-42AB	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185-48AB	I/P:2.1 A, O/P:+48 Vdc/3.9 A (top cover with two holes, blocked with plastic cap)
HLG-185H-48AB	
HLG-185-54AB	I/P:2.1 A, O/P:+54 Vdc/3.45 A (top cover with two holes, blocked with plastic cap)
HLG-185H-54AB	

제품특기사항 및 시험조건
Remarks & Test conditions

1. Test Report Ref. No. : 11-1920-3066 (2011.08.04.)

2. Product Description

- DC or AC supplied electronic controlgear for LEDs
- Rating - PRI : AC100-240 V 50/60 Hz 200 W
  SEC : 54 Vd.c. 3.45 A
- PF : > 0.9
- Type of protection : IP 67
- tc : 90 ℃, ta : 60 ℃
- Protection class : Class I
- This product is totally enclosed electronic controlgear.
- Constant voltage type, Independent SELV equivalent

* factory information

- MEAN WELL (Guangzhou) Electronics Co.,Ltd.
  No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China

□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다.
검토 담당자 / 연락처 : 고객지원본부 인증융합평가팀 신 종욱 / 02-8601-1437
□ *If you have any question on product review, please contact the person below :*
Job holder: Customer Support Division, Certification Convergence Evaluation Team, J.U.Shin / +82 2 860-1437

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions

1st Rev.) Critical component is changed. (11-1920-5308 : 2011.10.10.)

- Chang of Manufacturer

Component	Before	After
X-capacitor(C1, C2)	Arotronics	KEMET(Arcotronics)

2nd Rev.) Addition of derivative models.(11-1920-0294 : 2012.02.20.)

- " HLG-120-48A-110W" , " HLG-150-54A-130W"

3rd Rev.) Addition of factory (16-015152-11 : 2016.03.24.)

- Factory name : Mean Well (Guangzhou) Electronics Co., Ltd.

Address : 2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

4th Rev.) Change Addition factory name, address and president (16-067872-16 : 2016.12.08.)

- Before: Mean Well (Guangzhou) Electronics Co., Ltd. / Wang Fei Long

2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

After : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming

No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China

5th Rev.) Addition of components (17-021470-01 : 2017.04.17.)

- Addition of components

Component	Manufacturer	Model(Type)	Characteristics
Power Cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 ㎟-1.0 ㎟	3G x 0.75 mm^2-1.0 mm^2
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	245 IEC 57 H05RN-F 2C-3CX0.75 ㎟-1 ㎟	3C x 0.75 mm^2-1.0 mm^2
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 ㎟-4 ㎟	3G x 1.0 mm^2-4.0 mm^2

변경발급 내용 Contents of Certificate Revisions
6th Rev.) Addition of derivative models (19-055882-01-2 : 2019.09.04.) - Derivative models : HLG-100-20AB and 67 other models 7th Rev.) Change name, president and address of factory (21-082212-13-1 : 2022.01.11.) - Before : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China After : MEAN WELL (Guangzhou) Electronics Co.,Ltd. / Aden Wang No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China

FP511-06

접 수 번 호 (Receipt No.) : 19-055882-01-1

안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 (Certificate No.)	:	SZ11007-11005F
제 조 업 자/수 입 업 자 명 (Manufacturer/importer)	:	MEAN WELL Enterprises Co., Ltd.
주 소 (Address)	:	No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
제 품 명 (Product)	:	조명기구용컨버터(LED용) (Electronic controlgear)
기 본 모 델 명 (Basic Model)	:	HLG-185-54
파 생 모 델 명 (Series Model)	:	See the attachment 2
정격/안전기준상의 모델구분 (Rating)	:	AC100-240 V, 50/60 Hz, 2.0-0.85 A, 200 W (Output : DC 54 V, 3.45 A)
시 험 기 준 (Standard)	:	KC61347-1(2015-09), KC61347-2-13(2015-09), K00015(2009-12), K61547(2009-12)

본 인증서는 제 조 국 명 : 대만
제 조 업 자 명 : MEAN WELL Enterprises Co., Ltd.
제조공장의 주소 : No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
다수 공장의 명 : "이면기재" 의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4),10(2)or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2019 년 09 월 05 일
Year month day

한국산업기술시험원장
KOREA TESTING LABORATORY

※ 이 인증서는 「전기용품 및 생활용품 안전관리법 시행규칙」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨부서류	1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components) 2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model) 3. 안전인증의 변경 현황 (Revisions Status)

Korea Testing Laboratory

안전인증번호
Certification No. : SZ11007-11005F

다수 공장의 현황
(The status of Multiple Factories)

No	현 황	
1	다수 공장의 명 (Name)	MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch
	주소 (Address)	No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou , P.R. China
	제조국명 (Origin)	중국

□ 첨부 1 : 전기용품의 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST-series	T3.15 A 250 Vac	VDE
	Conquer	MST-series	T4 A 250 Vac	VDE
Y-capacitor (C3, C4)	Walsin	AC	1000 ㎊ 250 Vac 125 ℃	VDE
	Walsin	AH		
	TDK	CD		
	TDK	CS		
	Murata	KX		KC
	Murata	KH		KC
Varistor (ZNR2)	Thinking	TVR10361-D	230 Vac, 300Vdc	UL
	Centra Science	CNR14D361K		
	Joyin	14S361K, 14N361K		
	Nippon Chemicon	TVR14V361K		
Varistor (ZNR1)	Thinking	TVR14511-D	320Vac, 410Vdc	UL
	Centra Science	CNR14D511K		
	Joyin	14S511K, 14N511K		
	Nippon Chemicon	TNR14V511K		
X-capacitor (C1, C2) (C1=0.33 ㎌, C2=0.22 ㎌ for HLG-100X-YZ, HLG-120X-Z, C1=C2=0.47 ㎌ for HLG-150X-YZ, HLG-185X-YZ X=H or blank Y=12,15,20,24,30,36,42,48,54 Z=A, B or blank)	KEMET(Arcotronics)	R.46	300 Vac, 110 ℃	ENEC
	KEMET(Arcotronics)	R.49	310 Vac, 110 ℃	ENEC
	ISKRA	KNB 1530	300 Vac, 100 ℃	VDE
	ISKRA	KNB 1560	300 Vac, 125 ℃	VDE
	Epcos	B3292#...	305 Vac, 105 ℃	VDE
	Liow Gu	GS-L	275 Vac, 100 ℃	VDE
	Pilkor	PCX2 335M	275 Vac, 105 ℃	ENEC
	Pilkor	PCX2 337	275 Vac, 100 ℃	VDE
	Ultra	HQX	275 Vac, 100 ℃	VDE
	Vishay BC Components	339	275 Vac, 105 ℃	ENEC
	Cheng Tung	CTX	300 Vac, 100 ℃	VDE
	Shiny Space	SX1	300 Vac, 100 ℃	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Photo Coupler (U3, U4)	Cosmo	K1010	dti.=0.7 ㎜ int. dcr=5.2 ㎜ ext. dcr=8 ㎜ thermal cycling test, 115 ℃	VDE/UL
	Lite-On	LTV-817	dti.=0.8 ㎜ int. dcr=5.2 ㎜ ext. dcr=7.8 ㎜, 100 ℃	VDE/UL
	Sharp	PC123	dti.=0.7 ㎜ int. dcr=5 ㎜ ext. dcr=8 ㎜ thermal cycling test, 110 ℃	VDE/UL
Bridging capacitor (C31)	Walsin	AH	1000 ㎊, 250 Vac, Y1	VDE
	TDK	CD	1000 ㎊, 250 Vac, Y1	VDE
	Murata	KX	1000 ㎊, 250 Vac, Y1	KC
Choke (LF2)	Mean Well	TR-953	130 ℃	-
Choke (LF3)	Mean Well	TR-948	130 ℃	-
Choke (L1)	Mean Well	TR-954	130 ℃	-
PFC Choke (L2) (For HLG-WX-YZ, W=100, 120 X=H or blank Y=12,15,20,24,30,36,42,48,54 Z=A, B or blank)	Mean Well	TF-2072	130 ℃	-
PFC Choke (L2) (For HLG-WX-YZ, W=150, 185 X=H or blank Y=15,20,24,30,36,42,48,54 Z=A, B or blank)	Mean Well	TF-2071	130 ℃	-
PFC Choke (L2) (For HLG-WX-12Z W=150, 185 X=H or blank Z=A, B or blank)	Mean Well	TF-1991	130 ℃	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-120-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2053	Class B	-
Transformer (T1) (For HLG-120-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2054	Class B	-
Transformer (T1) (For HLG-100-20Z, HLG-120-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2055	Class B	-
Transformer (T1) (For HLG-100-24Z, HLG-120-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2056	Class B	-
Transformer (T1) (For HLG-100-30Z, HLG-120-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2057	Class B	-
Transformer (T1) (For HLG-100-36Z, HLG-120-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2058	Class B	-
Transformer (T1) (For HLG-100-42Z, HLG-120-42Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2059	Class B	-
Transformer (T1) (For HLG-100-48Z, HLG-120-48Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2060	Class B	-
Transformer (T1) (For HLG-100-54Z, HLG-120-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2061	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-120H-12Z Z=A, B or blank)	Yu Jing	TF-2073	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-120H-15Z Z=A, B or blank)	Yu Jing	TF-2074	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-20Z, HLG-120H-20Z Z=A, B or blank)	Yu Jing	TF-2075	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-24Z, HLG-120H-24Z Z=A, B or blank)	Yu Jing	TF-2076	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-30Z, HLG-120H-30Z Z=A, B or blank)	Yu Jing	TF-2077	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-36Z, HLG-120H-36Z Z=A, B or blank)	Yu Jing	TF-2078	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-42Z, HLG-120H-42Z Z=A, B or blank)	Yu Jing	TF-2079	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-48Z, HLG-120H-48Z Z=A, B or blank)	Yu Jing	TF-2080	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-54Z, HLG-120H-54Z Z=A, B or blank)	Yu Jing	TF-2081	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150-12Z, HLG-185-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2016	Class B	-
Transformer (T1) (For HLG-150-15Z, HLG-185-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2017	Class B	-
Transformer (T1) (For HLG-150-20Z, HLG-185-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2018	Class B	-
Transformer (T1) (For HLG-150-24Z, HLG-185-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-1999	Class B	-
Transformer (T1) (For HLG-150-30Z, HLG-185-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2019	Class B	-
Transformer (T1) (For HLG-150-36Z, HLG-185-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2020	Class B	-
Transformer (T1) (For HLG-150-42Z, HLG-185-42Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2021	Class B	-
Transformer (T1) (For HLG-150-48Z, HLG-185-48Z, HLG-150H-54Z, HLG-185H-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2022	Class B	-
Transformer (T1) (For HLG-150-54Z, HLG-185-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2023	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150H-12Z, HLG-185H-12Z Z=A, B or blank)	Yu Jing	TF-2062	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-15Z, HLG-185H-15Z Z=A, B or blank)	Yu Jing	TF-2063	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-20Z, HLG-185H-20Z Z=A, B or blank)	Yu Jing	TF-2064	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-24Z, HLG-185H-24Z Z=A, B or blank)	Yu Jing	TF-2065	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-30Z, HLG-185H-30Z Z=A, B or blank)	Yu Jing	TF-2066	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-36Z, HLG-185H-36Z Z=A, B or blank)	Yu Jing	TF-2067	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-42Z, HLG-185H-42Z Z=A, B or blank)	Yu Jing	TF-2068	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-48Z, HLG-185H-48Z Z=A, B or blank)	Yu Jing	TF-2069	Class B	-
	Elytone			
	Mean Well			
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 mm^2 3C x 1 mm^2	KC
	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 mm^2 3C x 1 mm^2 3C x 1.5 mm^2	KC
	I-sheng	60227 IEC 53	3G x 0.75 mm^2 3G x 1.0 mm^2 3G x 1.5 mm^2 3G x 2.5 mm^2	KC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm^2	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm^2 3G x 1.0 mm^2	KC
	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm^2	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm^2 3G x 1.0 mm^2	KC
	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 mm^2	KC
		K60227 IEC 53 H05VVH-F	3C x 0.75 mm^2 3C x 1.0 mm^2 3C x 1.5 mm^2 3C x 2.0 mm^2 3C x 2.5 mm^2	KC
	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75 mm^2 3C x 1.0 mm^2 3C x 1.5 mm^2 3C x 2.0 mm^2 3C x 2.5 mm^2	KC
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 ㎟-1.0 ㎟	3G x 0.75 mm^2-1.0 mm^2	KC
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	245 IEC 57 H05RN-F 2C-3CX0.75 ㎟-1 ㎟	3C x 0.75 mm^2-1.0 mm^2	KC
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 ㎟-4 ㎟	3G x 1.0 mm^2-4.0 mm^2	KC
Potting Compound	DOW Coming Corp.	SYLGARD 160	Gray, rated 105 ℃	UL
	Shin Etsu Silicone	KET-132A/B	Natural, rated 105 ℃	
	DOW CORNING (SHANGHAI) CO LTD	CN8760 CN8760G	Black, rated 150 ℃	UL
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D	Min. V-1, Min. 130 ℃	UL
	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		UL
	HONG SHIEN ENTERPRISE CO LTD	03V-0		UL
	HONG WEI ENTERPRISES CO LTD	79		UL
	HSU TZU ELECTRONIC CO LTD	4V0		UL

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		UL
	HSIANG KUO INDUSTRIAL CO LTD	76V0A		UL
Mylar Sheet	-	-	Min.V-2, min.0.2 ㎜	UL

☐ 유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

   As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 21 조제 1 항 또는 제 38 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

   The Safety Certification will be cancelled under the Article 21(1), 38(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.

FP511-04

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-12A	I/P: 1.8A ; O/P: +12Vdc/13A (top cover with two holes, blocked with plastic cap)
HLG-185-12A	
HLG-185H-12B	I/P:1.8A ; O/P: +12Vdc/13A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-12B	
HLG-185H-12	I/P: 1.8A ; O/P: +12Vdc/13A
HLG-185-12	
HLG-185H-15A	I/P : 2.1A, O/P: +15Vdc/11.5A (top cover with two holes, blocked with plastic cap)
HLG-185-15A	
HLG-185H-15B	I/P : 2.1A, O/P: +15Vdc/11.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-15B	
HLG-185H-15	I/P : 2.1A, O/P: +15Vdc/11.5A
HLG-185-15	
HLG-185H-20A	I/P : 2.1A, O/P: +20Vdc/9.3A (top cover with two holes, blocked with plastic cap)
HLG-185-20A	
HLG-185H-20B	I/P : 2.1A, O/P: +20Vdc/9.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-20B	
HLG-185H-20	I/P : 2.1A, O/P: +20Vdc/9.3A
HLG-185-20	
HLG-185H-24A	I/P : 2.1A, O/P: +24Vdc/7.8A (O top cover with two holes, blocked with plastic cap)
HLG-185-24A	
HLG-185H-24B	I/P : 2.1A, O/P: +24Vdc/7.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-24B	
HLG-185H-24	I/P : 2.1A, O/P: +24Vdc/7.8A
HLG-185-24	
HLG-185H-30A	I/P : 2.1A, O/P: +30Vdc/6.2A (top cover with two holes, blocked with plastic cap)
HLG-185-30A	
HLG-185H-30B	I/P : 2.1A, O/P: +30Vdc/6.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-30B	
HLG-185H-30	I/P : 2.1A, O/P: +30Vdc/6.2A

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185-30	
HLG-185H-36A	I/P : 2.1A, O/P: +36Vdc/5.2A (top cover with two holes, blocked with plastic cap)
HLG-185-36A	
HLG-185H-36B	I/P : 2.1A, O/P: +36Vdc/5.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-36B	
HLG-185H-36	I/P : 2.1A, O/P: +36Vdc/5.2A
HLG-185-36	
HLG-185H-42A	I/P : 2.1A, O/P: +42Vdc/4.4A (top cover with two holes, blocked with plastic cap)
HLG-185-42A	
HLG-185H-42B	I/P : 2.1A, O/P: +42Vdc/4.4A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-42B	
HLG-185H-42	I/P : 2.1A, O/P: +42Vdc/4.4A
HLG-185-42	
HLG-185H-48A	I/P : 2.1A, O/P: +48Vdc/3.9A (top cover with two holes, blocked with plastic cap)
HLG-185-48A	
HLG-185H-48B	I/P : 2.1A, O/P: +48Vdc/3.9A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-48B	
HLG-185H-48	I/P : 2.1A, O/P: +48Vdc/3.9A
HLG-185-48	
HLG-185H-54A	I/P : 2.1A, O/P: +54Vdc/3.45A (top cover with two holes, blocked with plastic cap)
HLG-185-54A	
HLG-185H-54B	I/P : 2.1A, O/P: +54Vdc/3.45A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-54B	
HLG-185H-54	Model name
HLG-150H-12A	I/P: 1.7A, O/P: +12Vdc/12.5A (top cover with two holes, blocked with plastic cap)
HLG-150-12A	
HLG-150H-12B	I/P: 1.7A, O/P: +12Vdc/12.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-12B	
HLG-150H-12	I/P: 1.7A, O/P: +12Vdc/12.5A
HLG-150-12	
HLG-150H-15A	I/P: 1.7A, O/P: +15Vdc/10A

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150-15A	(top cover with two holes, blocked with plastic cap)
HLG-150H-15B	I/P: 1.7A, O/P: +15Vdc/10A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-15B	
HLG-150H-15	I/P: 1.7A, O/P: +15Vdc/10A
HLG-150-15	
HLG-150H-20A	I/P: 1.7A, O/P: +20Vdc/7.5A (cover with two holes, blocked with plastic cap)
HLG-150-20A	
HLG-150H-20B	I/P:1.7A, O/P: +20Vdc/7.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-20B	
HLG-150H-20	I/P: 1.7A, O/P: +20Vdc/7.5A
HLG-150-20	
HLG-150H-24A	I/P: 1.7A, O/P: +24Vdc/6.3A (top cover with two holes, blocked with plastic cap)
HLG-150-24A	
HLG-150H-24B	I/P: 1.7A, O/P: +24Vdc/6.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-24B	
HLG-150H-24	I/P: 1.7A, O/P: +24Vdc/6.3A
HLG-150-24	
HLG-150H-30A	I/P: 1.7A, O/P: +30Vdc/5A (top cover with two holes, blocked with plastic cap)
HLG-150-30A	
HLG-150H-30B	I/P: 1.7A, O/P: +30Vdc/5A (IO/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-30B	
HLG-150H-30	I/P: 1.7A, O/P: +30Vdc/5A
HLG-150-30	
HLG-150H-36A	I/P: 1.7A, O/P: +36Vdc/4.2A (cover with two holes, blocked with plastic cap)
HLG-150-36A	
HLG-150H-36B	I/P:1.7A, O/P: +36Vdc/4.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-36B	
HLG-150H-36	I/P: 1.7A, O/P: +36Vdc/4.2A
HLG-150-36	
HLG-150H-42A	I/P: 1.7A, O/P: +42Vdc/3.6A (cover with two holes, blocked with plastic cap)
HLG-150-42A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-42B	I/P:1.7A, O/P: +42Vdc/3.6A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-42B	
HLG-150H-42	I/P: 1.7A, O/P: +42Vdc/3.6A
HLG-150-42	
HLG-150H-48A	I/P: 1.7A, O/P: +48Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-150-48A	
HLG-150H-48B	I/P:1.7A, O/P: +48Vdc/3.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-48B	
HLG-150H-48	I/P:1.7A, O/P: +48Vdc/3.2A
HLG-150-48	
HLG-150H-54A	I/P: 1.7A, O/P: +54Vdc/2.8A (top cover with two holes, blocked with plastic cap)
HLG-150-54A	
HLG-150H-54B	I/P:1.7A, O/P: +54Vdc/2.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-54B	
HLG-150H-54	I/P: 1.7A, O/P: +54Vdc/2.8A
HLG-150-54	
HLG-120H-12A	I/P: 1.4A, O/P: +12Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-120-12A	
HLG-120H-12B	I/P:1.4A, O/P: +12Vdc/10A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-12B	
HLG-120H-12	I/P: 1.4A, O/P: +12Vdc/10A
HLG-120-12	
HLG-120H-15A	I/P: 1.4A, O/P: +15Vdc/8.0A (top cover with two holes, blocked with plastic cap)
HLG-120-15A	
HLG-120H-15B	I/P:1.4A, O/P: +15Vdc/8.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-15B	
HLG-120H-15	I/P: 1.4A, O/P: +15Vdc/8.0A
HLG-120-15	
HLG-120H-20A	I/P: 1.4A, O/P: +20Vdc/6.0A (top cover with two holes, blocked with plastic cap)
HLG-120-20A	
HLG-120H-20B	I/P: 1.4A, O/P: +20Vdc/6.0A

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120-20B	(O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120H-20	I/P: 1.4A, O/P: +20Vdc/6.0A
HLG-120-20	
HLG-120H-24A	I/P: 1.4A, O/P: +24Vdc/5.0A (top cover with two holes, blocked with plastic cap)
HLG-120-24A	
HLG-120H-24B	I/P:1.4A, O/P: +24Vdc/5.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-24B	
HLG-120H-24	I/P: 1.4A, O/P: +24Vdc/5.0A
HLG-120-24	
HLG-120H-30A	I/P: 1.4A, O/P: +30Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-120-30A	
HLG-120H-30B	I/P: 1.4A, O/P: +30Vdc/4.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-30B	
HLG-120H-30	I/P: 1.4A, O/P: +30Vdc/4.0A
HLG-120-30	
HLG-120H-36A	I/P: 1.4A, O/P: +36Vdc/3.4A (top cover with two holes, blocked with plastic cap)
HLG-120-36A	
HLG-120H-36B	I/P: 1.4A, O/P: +36Vdc/3.4A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-36B	
HLG-120H-36	I/P: 1.4A, O/P: +36Vdc/3.4A
HLG-120-36	
HLG-120H-42A	I/P: 1.4A, O/P: +42Vdc/2.9A (top cover with two holes, blocked with plastic cap)
HLG-120-42A	
HLG-120H-42B	I/P: 1.4A, O/P: +42Vdc/2.9A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-42B	
HLG-120H-42	I/P: 1.4A, O/P: +42Vdc/2.9A
HLG-120-42	
HLG-120H-48A	I/P:1.4A, O/P: +48Vdc/2.5A (top cover with two holes, blocked with plastic cap)
HLG-120-48A	
HLG-120H-48B	I/P: 1.4A, O/P: +48Vdc/2.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-48B	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-48	I/P: 1.4A, O/P: +48Vdc/2.5A
HLG-120-48	
HLG-120H-54A	I/P: 1.4A, O/P: +54Vdc/2.3A (top cover with two holes, blocked with plastic cap)
HLG-120-54A	
HLG-120H-54B	I/P: 1.4A, O/P: +54Vdc/2.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-54B	
HLG-120H-54	I/P: 1.4A, O/P: +54Vdc/2.3A
HLG-120-54	
HLG-100H-20A	I/P: 1.2A, O/P: +20Vdc/4.8A (top cover with two holes, blocked with plastic cap)
HLG-100-20A	
HLG-100H-20B	I/P: 1.2A, O/P: +20Vdc/4.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-20B	
HLG-100H-20	I/P: 1.2A, O/P: +20Vdc/4.8A
HLG-100-20	
HLG-100H-24A	I/P: 1.2A, O/P: +24Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-100-24A	
HLG-100H-24B	I/P: 1.2A, O/P: +24Vdc/4.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-24B	
HLG-100H-24	I/P: 1.2A, O/P: +24Vdc/4.0A
HLG-100-24	
HLG-100H-30A	I/P: 1.2A, O/P: +30Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-100-30A	
HLG-100H-30B	I/P:1.2A, O/P: +30Vdc/3.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-30B	
HLG-100H-30	I/P: 1.2A, O/P: +30Vdc/3.2A
HLG-100-30	
HLG-100H-36A	I/P: 1.2A, O/P: +36Vdc/2.65A (top cover with two holes, blocked with plastic cap)
HLG-100-36A	
HLG-100H-36B	I/P: 1.2A, O/P: +36Vdc/2.65A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-36B	
HLG-100H-36	I/P: 1.2A, O/P: +36Vdc/2.65A

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-100-36	
HLG-100H-42A	I/P: 1.2A, O/P: +42Vdc/2.28A (top cover with two holes, blocked with plastic cap)
HLG-100-42A	
HLG-100H-42B	I/P: 1.2A, O/P: +42Vdc/2.28A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-42B	
HLG-100H-42	I/P: 1.2A, O/P: +42Vdc/2.28A
HLG-100-42	
HLG-100H-48A	I/P: 1.2A, O/P: +48Vdc/2.0A (top cover with two holes, blocked with plastic cap)
HLG-100-48A	
HLG-100H-48B	I/P: 1.2A, O/P: +48Vdc/2.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-48B	
HLG-100H-48	I/P: 1.2A, O/P: +48Vdc/2.0A
HLG-100-48	
HLG-100H-54A	I/P: 1.2A, O/P: +54Vdc/1.77A (top cover with two holes, blocked with plastic cap)
HLG-100-54A	
HLG-100H-54B	I/P: 1.2A, O/P: +54Vdc/1.77A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-54B	
HLG-100H-54	I/P: 1.2A, O/P: +54Vdc/1.77A
HLG-100-54	
HLG-120-48A-110W	O/P : 110 W, 45.3 V, 2.24 A
HLG-150-54A-130W	O/P : 130W, 54.1 V, 2.34 A
HLG-100-20AB	I/P:1.2 A, O/P:+20 Vdc/4.8 A (top cover with two holes, blocked with plastic cap)
HLG-100H-20AB	
HLG-100-24AB	I/P:1.2 A, O/P:+24 Vdc/4.0 A (top cover with two holes, blocked with plastic cap)
HLG-100H-24AB	
HLG-100-30AB	I/P:1.2 A, O/P:+30 Vdc/3.2 A (top cover with two holes, blocked with plastic cap)
HLG-100H-30AB	
HLG-100-36AB	I/P:1.2 A, O/P:+36 Vdc/2.65 A (top cover with two holes, blocked with plastic cap)
HLG-100H-36AB	
HLG-100-42AB	I/P:1.2 A, O/P:+42 Vdc/2.28 A (top cover with two holes, blocked with plastic cap)
HLG-100H-42AB	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-100-48AB	I/P:1.2 A, O/P:+48 Vdc/2.0 A (top cover with two holes, blocked with plastic cap)
HLG-100H-48AB	
HLG-100-54AB	I/P:1.2 A, O/P:+54 Vdc/1.77 A (top cover with two holes, blocked with plastic cap)
HLG-100H-54AB	
HLG-120-12AB	I/P:1.4 A, O/P:+12 Vdc/10 A (top cover with two holes, blocked with plastic cap)
HLG-120H-12AB	
HLG-120-15AB	I/P:1.4 A, O/P:+15 Vdc/8.0 A (top cover with two holes, blocked with plastic cap)
HLG-120H-15AB	
HLG-120-20AB	I/P:1.4 A, O/P:+20 Vdc/6.0 A (top cover with two holes, blocked with plastic cap)
HLG-120H-20AB	
HLG-120-24AB	I/P:1.4 A, O/P:+24 Vdc/5.0 A (top cover with two holes, blocked with plastic cap)
HLG-120H-24AB	
HLG-120-30AB	I/P:1.4 A, O/P:+30 Vdc/4.0 A (top cover with two holes, blocked with plastic cap)
HLG-120H-30AB	
HLG-120-36AB	I/P:1.4 A, O/P:+36 Vdc/3.4 A (top cover with two holes, blocked with plastic cap)
HLG-120H-36AB	
HLG-120-42AB	I/P:1.4 A, O/P:+42 Vdc/2.9 A (top cover with two holes, blocked with plastic cap)
HLG-120H-42AB	
HLG-120-48AB	I/P:1.4 A, O/P:+48 Vdc/2.5 A (top cover with two holes, blocked with plastic cap)
HLG-120H-48AB	
HLG-120-54AB	I/P:1.4 A, O/P:+54 Vdc/2.3 A (top cover with two holes, blocked with plastic cap)
HLG-120H-54AB	
HLG-150-12AB	I/P:1.7 A, O/P:+12 Vdc/12.5 A (top cover with two holes, blocked with plastic cap)
HLG-150H-12AB	
HLG-150-15AB	I/P:1.7 A, O/P:+15 Vdc/10 A (top cover with two holes, blocked with plastic cap)
HLG-150H-15AB	
HLG-150-20AB	I/P:1.7 A, O/P:+20V dc/7.5 A (top cover with two holes, blocked with plastic cap)
HLG-150H-20AB	
HLG-150-24AB	I/P:1.7 A, O/P:+24 Vdc/6.3 A (top cover with two holes, blocked with plastic cap)
HLG-150H-24AB	
HLG-150-30AB	I/P:1.7 A, O/P:+30 Vdc/5 A

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-30AB	(top cover with two holes, blocked with plastic cap)
HLG-150-36AB	I/P:1.7 A, O/P:+36 Vdc/4.2 A (top cover with two holes, blocked with plastic cap)
HLG-150H-36AB	
HLG-150-42AB	I/P:1.7 A, O/P:+42 Vdc/3.6 A (top cover with two holes, blocked with plastic cap)
HLG-150H-42AB	
HLG-150-48AB	I/P:1.7 A, O/P:+48 Vdc/3.2 A (top cover with two holes, blocked with plastic cap)
HLG-150H-48AB	
HLG-150-54AB	I/P:1.7 A, O/P:+54 Vdc/2.8 A (top cover with two holes, blocked with plastic cap)
HLG-150H-54AB	
HLG-185-12AB	I/P:1.8 A, O/P:+12 Vdc/13 A (top cover with two holes, blocked with plastic cap)
HLG-185H-12AB	
HLG-185-15AB	I/P:2.1 A, O/P:+15 Vdc/11.5 A (top cover with two holes, blocked with plastic cap)
HLG-185H-15AB	
HLG-185-20AB	I/P:2.1A, O/P:+20 Vdc/9.3 A (top cover with two holes, blocked with plastic cap)
HLG-185H-20AB	
HLG-185-24AB	I/P:2.1 A, O/P:+24 Vdc/7.8 A (top cover with two holes, blocked with plastic cap)
HLG-185H-24AB	
HLG-185-30AB	I/P:2.1 A, O/P:+30 Vdc/6.2 A (top cover with two holes, blocked with plastic cap)
HLG-185H-30AB	
HLG-185-36AB	I/P:2.1 A, O/P:+36 Vdc/5.2 A (top cover with two holes, blocked with plastic cap)
HLG-185H-36AB	
HLG-185-42AB	I/P:2.1 A, O/P:+42 Vdc/4.4 A (top cover with two holes, blocked with plastic cap)
HLG-185H-42AB	
HLG-185-48AB	I/P:2.1 A, O/P:+48 Vdc/3.9 A (top cover with two holes, blocked with plastic cap)
HLG-185H-48AB	
HLG-185-54AB	I/P:2.1 A, O/P:+54 Vdc/3.45 A (top cover with two holes, blocked with plastic cap)
HLG-185H-54AB	

제품특기사항 및 시험조건 Remarks & Test conditions
1. Test Report Ref. No. : 11-1920-3066 (2011.08.04.) 2. Product Description - DC or AC supplied electronic controlgear for LEDs - Rating - PRI : AC100-240 V 50/60 Hz 200 W SEC : 54 Vd.c. 3.45 A - PF : > 0.9 - Type of protection : IP 67 - tc : 90 ℃, ta : 60 ℃ - Protection class : Class I - This product is totally enclosed electronic controlgear. - Constant voltage type, Independent SELV equivalent
□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토 담당자 : BK 전략본부 인증관리센터 이 용노 / (02)860-1423 □ *If you have any question on product review, please contact the person below :* *Job holder: BK Strategy Division Certification Management Center, Y.R.LEE/+82 2 8601-423*

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions

1st Rev.) Critical component is changed. (11-1920-5308 : 2011.10.10.)

- Chang of Manufacturer

Component	Before	After
X-capacitor(C1, C2)	Arotronics	KEMET(Arcotronics)

2nd Rev.) Addition of derivative models.(11-1920-0294 : 2012.02.20.)

- "HLG-120-48A-110W", "HLG-150-54A-130W"

3rd Rev.) Addition of factory (16-015152-11 : 2016.03.24.)

- Factory name : Mean Well (Guangzhou) Electronics Co., Ltd.

Address : 2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

4th Rev.) Change Addition factory name, address and president (16-067872-16 : 2016.12.08.)

- Before: Mean Well (Guangzhou) Electronics Co., Ltd. / Wang Fei Long

2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

After : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming

No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China

5th Rev.) Addition of components (17-021470-01 : 2017.04.17.)

- Addition of components

Component	Manufacturer	Model(Type)	Characteristics
Power Cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 ㎟-1.0 ㎟	3G x 0.75 mm^2-1.0 mm^2
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	245 IEC 57 H05RN-F 2C-3CX0.75 ㎟-1 ㎟	3C x 0.75 mm^2-1.0 mm^2
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 ㎟-4 ㎟	3G x 1.0 mm^2-4.0 mm^2

변경발급 내용 Contents of Certificate Revisions
6th Rev.) Addition of derivative models (19-055882-01-2 : 2019.09.04.) - Derivative models : HLG-100-20AB and 67 other models

FP511-06

접 수 번 호 (Receipt No.) : 17-021470-01

안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 (Certificate No.)	:	SZ11007-11005E
제 조 업 자/수 입 업 자 명 (Manufacturer/importer)	:	MEAN WELL Enterprises Co., Ltd.
주 소 (Address)	:	No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
제 품 명 (Product)	:	조명기구용컨버터(LED용) (Electronic controlgear)
기 본 모 델 명 (Basic Model)	:	HLG-185-54
파 생 모 델 명 (Series Model)	:	See the attachment 2
정격/안전기준상의 모델구분 (Rating)	:	AC100-240 V, 50/60 Hz, 2.0-0.85 A, 200 W (Output : DC 54 V, 3.45 A)
시 험 기 준 (Standard)	:	KC61347-1(2015-09), KC61347-2-13(2015-09), K00015(2009-12), K61547(2009-12)

본 인증서는 제 조 국 명 : 대만
제 조 업 자 명 : MEAN WELL Enterprises Co., Ltd.
제조공장의 주소 : No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
다수 공장의 명 : "이면기재" 의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항 · 제4항 또는 제10조제2항에 따라 안전인증서를 발급합니다.
We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4) or10 (2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Fafety Control Act.

2017 년 04 월 19 일
Year month day

한국산업기술시험원장
KOREA TESTING LABORATORY

※ 이 인증서는 「전기용품 및 생활용품 안전관리법 시행규칙」에 따른 제품의 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증 · 허가 등을 받아야 합니다.

첨부서류	1. 전기용품의 안전관리부품 및 재질목록(List of Critical Components) 2. 기본모델 · 파생모델의 내용 (Descriptions of the basic and series model) 3. 안전인증의 변경 현황 (Revisions Status)

안전인증시의 조건 : 동 제품의 생산 시 자체검사를 실시하고 안전인증 시 등록된 부품누락 및 임의 변경하지 말 것.
(Terms of the Safety Certification :Factories have to conduct the 'Self Product Verification' and it is prohibited to omit and modify the components registered on the Safety Certificate when producing the certified products.)

Korea Testing Laboratory

안전인증번호
Certification No. : SZ11007-11005E

다수 공장의 현황
(The status of Multiple Factories)

No	현 황	
1	다수 공장의 명 (Name)	MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch
	주소 (Address)	No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China
	제조국명 (Origin)	중국

□ 첨부 1 : 전기용품의 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST-series	T3.15 A 250 Vac	VDE
	Conquer	MST-series	T4 A 250 Vac	VDE
Y-capacitor (C3, C4)	Walsin	AC	1000 pF 250 Vac 125 ℃	VDE
	Walsin	AH		
	TDK	CD		
	TDK	CS		
	Murata	KX		KC
	Murata	KH		KC
Varistor (ZNR2)	Thinking	TVR10361-D	230 Vac, 300Vdc	UL
	Centra Science	CNR14D361K		
	Joyin	14S361K, 14N361K		
	Nippon Chemicon	TVR14V361K		
Varistor (ZNR1)	Thinking	TVR14511-D	320Vac, 410Vdc	UL
	Centra Science	CNR14D511K		
	Joyin	14S511K, 14N511K		
	Nippon Chemicon	TNR14V511K		
X-capacitor (C1, C2) (C1=0.33 μF, C2=0.22 μF for HLG-100X-YZ, HLG-120X-YZ, C1=C2=0.47 μF for HLG-150X-YZ, HLG-185X-YZ X=H or blank Y=12,15,20,24,30, 36,42,48,54 Z=A, B or blank)	KEMET(Arcotronics)	R.46	300 Vac, 110 ℃	ENEC
	KEMET(Arcotronics)	R.49	310 Vac, 110 ℃	ENEC
	ISKRA	KNB 1530	300 Vac, 100 ℃	VDE
	ISKRA	KNB 1560	300 Vac, 125 ℃	VDE
	Epcos	B3292#...	305 Vac, 105 ℃	VDE
	Liow Gu	GS-L	275 Vac, 100 ℃	VDE
	Pilkor	PCX2 335M	275 Vac, 105 ℃	ENEC
	Pilkor	PCX2 337	275 Vac, 100 ℃	VDE
	Ultra	HQX	275 Vac, 100 ℃	VDE
	Vishay BC Components	339	275 Vac, 105 ℃	ENEC
	Cheng Tung	CTX	300 Vac, 100 ℃	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
	Shiny Space	SX1	300 Vac, 100 ℃	VDE
Photo Coupler (U3, U4)	Cosmo	K1010	dti.=0.7 mm int. dcr=5.2 mm ext. dcr=8 mm thermal cycling test, 115 ℃	VDE/UL
	Lite-On	LTV-817	dti.=0.8 mm int. dcr=5.2 mm ext. dcr=7.8 mm, 100 ℃	VDE/UL
	Sharp	PC123	dti.=0.7 mm int. dcr=5 mm ext. dcr=8 mm thermal cycling test, 110 ℃	VDE/UL
Bridging capacitor (C31)	Walsin	AH	1000 pF, 250 Vac, Y1	VDE
	TDK	CD	1000 pF, 250 Vac, Y1	VDE
	Murata	KX	1000 pF, 250 Vac, Y1	KC
Choke (LF2)	Mean Well	TR-953	130 ℃	-
Choke (LF3)	Mean Well	TR-948	130 ℃	-
Choke (L1)	Mean Well	TR-954	130 ℃	-
PFC Choke (L2) (For HLG-WX-YZ, W=100, 120 X=H or blank Y=12,15,20,24,30, 36,42,48,54 Z=A, B or blank)	Mean Well	TF-2072	130 ℃	-
PFC Choke (L2) (For HLG-WX-YZ, W=150, 185 X=H or blank Y=15,20,24,30,36, 42,48,54 Z=A, B or blank)	Mean Well	TF-2071	130 ℃	-
PFC Choke (L2) (For HLG-WX-12Z W=150, 185 X=H or blank Z=A, B or blank)	Mean Well	TF-1991	130 ℃	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-120-12Z Z=A, B or blank)	Yu Jing	TF-2053	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-120-15Z Z=A, B or blank)	Yu Jing	TF-2054	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-20Z, HLG-120-20Z Z=A, B or blank)	Yu Jing	TF-2055	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-24Z, HLG-120-24Z Z=A, B or blank)	Yu Jing	TF-2056	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-30Z, HLG-120-30Z Z=A, B or blank)	Yu Jing	TF-2057	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-36Z, HLG-120-36Z Z=A, B or blank)	Yu Jing	TF-2058	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-42Z, HLG-120-42Z Z=A, B or blank)	Yu Jing	TF-2059	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-48Z, HLG-120-48Z Z=A, B or blank)	Yu Jing	TF-2060	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-54Z, HLG-120-54Z Z=A, B or blank)	Yu Jing	TF-2061	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-120H-12Z Z=A, B or blank)	Yu Jing	TF-2073	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-120H-15Z Z=A, B or blank)	Yu Jing	TF-2074	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-20Z, HLG-120H-20Z Z=A, B or blank)	Yu Jing	TF-2075	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-24Z, HLG-120H-24Z Z=A, B or blank)	Yu Jing	TF-2076	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-30Z, HLG-120H-30Z Z=A, B or blank)	Yu Jing	TF-2077	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-36Z, HLG-120H-36Z Z=A, B or blank)	Yu Jing	TF-2078	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-42Z, HLG-120H-42Z Z=A, B or blank)	Yu Jing	TF-2079	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-48Z, HLG-120H-48Z Z=A, B or blank)	Yu Jing	TF-2080	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-54Z, HLG-120H-54Z Z=A, B or blank)	Yu Jing	TF-2081	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150-12Z, HLG-185-12Z Z=A, B or blank)	Yu Jing	TF-2016	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-15Z, HLG-185-15Z Z=A, B or blank)	Yu Jing	TF-2017	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-20Z, HLG-185-20Z Z=A, B or blank)	Yu Jing	TF-2018	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-24Z, HLG-185-24Z Z=A, B or blank)	Yu Jing	TF-1999	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-30Z, HLG-185-30Z Z=A, B or blank)	Yu Jing	TF-2019	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-36Z, HLG-185-36Z Z=A, B or blank)	Yu Jing	TF-2020	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-42Z, HLG-185-42Z Z=A, B or blank)	Yu Jing	TF-2021	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-48Z, HLG-185-48Z, HLG-150H-54Z, HLG-185H-54Z Z=A, B or blank)	Yu Jing	TF-2022	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150-54Z, HLG-185-54Z Z=A, B or blank)	Yu Jing	TF-2023	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-12Z, HLG-185H-12Z Z=A, B or blank)	Yu Jing	TF-2062	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-15Z, HLG-185H-15Z Z=A, B or blank)	Yu Jing	TF-2063	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-20Z, HLG-185H-20Z Z=A, B or blank)	Yu Jing	TF-2064	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-24Z, HLG-185H-24Z Z=A, B or blank)	Yu Jing	TF-2065	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-30Z, HLG-185H-30Z Z=A, B or blank)	Yu Jing	TF-2066	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-36Z, HLG-185H-36Z Z=A, B or blank)	Yu Jing	TF-2067	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-42Z, HLG-185H-42Z Z=A, B or blank)	Yu Jing	TF-2068	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-48Z, HLG-185H-48Z Z=A, B or blank)	Yu Jing	TF-2069	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75mm^2 3C x 1mm^2	KC
	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75mm^2 3C x 1mm^2 3C x 1.5mm^2	KC
	I-sheng	60227 IEC 53	3G x 0.75mm^2 3G x 1.0mm^2 3G x 1.5mm^2 3G x 2.5mm^2	KC
	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75mm^2	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75mm^2 3G x 1.0mm^2	KC
	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75mm^2	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75mm^2 3G x 1.0mm^2	KC
	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75mm^2	KC
		K60227 IEC 53 H05VVH-F	3C x 0.75mm^2 3C x 1.0mm^2 3C x 1.5mm^2 3C x 2.0mm^2 3C x 2.5mm^2	KC
	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75mm^2 3C x 1.0mm^2 3C x 1.5mm^2 3C x 2.0mm^2 3C x 2.5mm^2	KC
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 ㎟-1.0 ㎟	3G x 0.75 mm^2-1.0 mm^2	KC
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	245 IEC 57 H05RN-F 2C-3CX0.75 ㎟-1 ㎟	3C x 0.75 mm^2-1.0 mm^2	KC
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 ㎟-4 ㎟	3G x 1.0 mm^2-4.0 mm^2	KC
Potting Compound	DOW Coming Corp.	SYLGARD 160	Gray, rated 105 ℃	UL
	Shin Etsu Silicone	KET-132A/B	Natural, rated 105 ℃	
	DOW CORNING (SHANGHAI) CO LTD	CN8760 CN8760G	Black, rated 150 ℃	UL

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D	Min. V-1, Min. 130 ℃	UL
	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		UL
	HONG SHIEN ENTERPRISE CO LTD	03V-0		UL
	HONG WEI ENTERPRISES CO LTD	79		UL
	HSU TZU ELECTRONIC CO LTD	4V0		UL
	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		UL
	HSIANG KUO INDUSTRIAL CO LTD	76V0A		UL
Mylar Sheet	-	-	Min.V-2, min.0.2 ㎜	UL

☐ 유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

   As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 20 조제 1 항 또는 제 36 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다.

   The Safety Certification will be cancelled under the Article 20(1), 36(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.

FP511-04

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-12A	I/P: 1.8A ; O/P: +12Vdc/13A (top cover with two holes, blocked with plastic cap)
HLG-185-12A	
HLG-185H-12B	I/P:1.8A ; O/P: +12Vdc/13A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-12B	
HLG-185H-12	I/P: 1.8A ; O/P: +12Vdc/13A
HLG-185-12	
HLG-185H-15A	I/P : 2.1A, O/P: +15Vdc/11.5A (top cover with two holes, blocked with plastic cap)
HLG-185-15A	
HLG-185H-15B	I/P : 2.1A, O/P: +15Vdc/11.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-15B	
HLG-185H-15	I/P : 2.1A, O/P: +15Vdc/11.5A
HLG-185-15	
HLG-185H-20A	I/P : 2.1A, O/P: +20Vdc/9.3A (top cover with two holes, blocked with plastic cap)
HLG-185-20A	
HLG-185H-20B	I/P : 2.1A, O/P: +20Vdc/9.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-20B	
HLG-185H-20	I/P : 2.1A, O/P: +20Vdc/9.3A
HLG-185-20	
HLG-185H-24A	I/P : 2.1A, O/P: +24Vdc/7.8A (O top cover with two holes, blocked with plastic cap)
HLG-185-24A	
HLG-185H-24B	I/P : 2.1A, O/P: +24Vdc/7.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-24B	
HLG-185H-24	I/P : 2.1A, O/P: +24Vdc/7.8A
HLG-185-24	
HLG-185H-30A	I/P : 2.1A, O/P: +30Vdc/6.2A (top cover with two holes, blocked with plastic cap)
HLG-185-30A	
HLG-185H-30B	I/P : 2.1A, O/P: +30Vdc/6.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-30B	
HLG-185H-30	I/P : 2.1A, O/P: +30Vdc/6.2A
HLG-185-30	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-36A	I/P : 2.1A, O/P: +36Vdc/5.2A (top cover with two holes, blocked with plastic cap)
HLG-185-36A	
HLG-185H-36B	I/P : 2.1A, O/P: +36Vdc/5.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-36B	
HLG-185H-36	I/P : 2.1A, O/P: +36Vdc/5.2A
HLG-185-36	
HLG-185H-42A	I/P : 2.1A, O/P: +42Vdc/4.4A (top cover with two holes, blocked with plastic cap)
HLG-185-42A	
HLG-185H-42B	I/P : 2.1A, O/P: +42Vdc/4.4A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-42B	
HLG-185H-42	I/P : 2.1A, O/P: +42Vdc/4.4A
HLG-185-42	
HLG-185H-48A	I/P : 2.1A, O/P: +48Vdc/3.9A (top cover with two holes, blocked with plastic cap)
HLG-185-48A	
HLG-185H-48B	I/P : 2.1A, O/P: +48Vdc/3.9A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-48B	
HLG-185H-48	I/P : 2.1A, O/P: +48Vdc/3.9A
HLG-185-48	
HLG-185H-54A	I/P : 2.1A, O/P: +54Vdc/3.45A (top cover with two holes, blocked with plastic cap)
HLG-185-54A	
HLG-185H-54B	I/P : 2.1A, O/P: +54Vdc/3.45A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-54B	
HLG-185H-54	Model name
HLG-150H-12A	I/P: 1.7A, O/P: +12Vdc/12.5A (top cover with two holes, blocked with plastic cap)
HLG-150-12A	
HLG-150H-12B	I/P: 1.7A, O/P: +12Vdc/12.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-12B	
HLG-150H-12	I/P: 1.7A, O/P: +12Vdc/12.5A
HLG-150-12	
HLG-150H-15A	I/P: 1.7A, O/P: +15Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-150-15A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-15B	I/P: 1.7A, O/P: +15Vdc/10A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-15B	
HLG-150H-15	I/P: 1.7A, O/P: +15Vdc/10A
HLG-150-15	
HLG-150H-20A	I/P: 1.7A, O/P: +20Vdc/7.5A (cover with two holes, blocked with plastic cap)
HLG-150-20A	
HLG-150H-20B	I/P:1.7A, O/P: +20Vdc/7.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-20B	
HLG-150H-20	I/P: 1.7A, O/P: +20Vdc/7.5A
HLG-150-20	
HLG-150H-24A	I/P: 1.7A, O/P: +24Vdc/6.3A (top cover with two holes, blocked with plastic cap)
HLG-150-24A	
HLG-150H-24B	I/P: 1.7A, O/P: +24Vdc/6.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-24B	
HLG-150H-24	I/P: 1.7A, O/P: +24Vdc/6.3A
HLG-150-24	
HLG-150H-30A	I/P: 1.7A, O/P: +30Vdc/5A (top cover with two holes, blocked with plastic cap)
HLG-150-30A	
HLG-150H-30B	I/P: 1.7A, O/P: +30Vdc/5A (IO/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-30B	
HLG-150H-30	I/P: 1.7A, O/P: +30Vdc/5A
HLG-150-30	
HLG-150H-36A	I/P: 1.7A, O/P: +36Vdc/4.2A (cover with two holes, blocked with plastic cap)
HLG-150-36A	
HLG-150H-36B	I/P:1.7A, O/P: +36Vdc/4.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-36B	
HLG-150H-36	I/P: 1.7A, O/P: +36Vdc/4.2A
HLG-150-36	
HLG-150H-42A	I/P: 1.7A, O/P: +42Vdc/3.6A (cover with two holes, blocked with plastic cap)
HLG-150-42A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-42B	I/P:1.7A, O/P: +42Vdc/3.6A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-42B	
HLG-150H-42	I/P: 1.7A, O/P: +42Vdc/3.6A
HLG-150-42	
HLG-150H-48A	I/P: 1.7A, O/P: +48Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-150-48A	
HLG-150H-48B	I/P:1.7A, O/P: +48Vdc/3.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-48B	
HLG-150H-48	I/P:1.7A, O/P: +48Vdc/3.2A
HLG-150-48	
HLG-150H-54A	I/P: 1.7A, O/P: +54Vdc/2.8A (top cover with two holes, blocked with plastic cap)
HLG-150-54A	
HLG-150H-54B	I/P:1.7A, O/P: +54Vdc/2.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-54B	
HLG-150H-54	I/P: 1.7A, O/P: +54Vdc/2.8A
HLG-150-54	
HLG-120H-12A	I/P: 1.4A, O/P: +12Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-120-12A	
HLG-120H-12B	I/P:1.4A, O/P: +12Vdc/10A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-12B	
HLG-120H-12	I/P: 1.4A, O/P: +12Vdc/10A
HLG-120-12	
HLG-120H-15A	I/P: 1.4A, O/P: +15Vdc/8.0A (top cover with two holes, blocked with plastic cap)
HLG-120-15A	
HLG-120H-15B	I/P:1.4A, O/P: +15Vdc/8.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-15B	
HLG-120H-15	I/P: 1.4A, O/P: +15Vdc/8.0A
HLG-120-15	
HLG-120H-20A	I/P: 1.4A, O/P: +20Vdc/6.0A (top cover with two holes, blocked with plastic cap)
HLG-120-20A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-20B	I/P: 1.4A, O/P: +20Vdc/6.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-20B	
HLG-120H-20	I/P: 1.4A, O/P: +20Vdc/6.0A
HLG-120-20	
HLG-120H-24A	I/P: 1.4A, O/P: +24Vdc/5.0A (top cover with two holes, blocked with plastic cap)
HLG-120-24A	
HLG-120H-24B	I/P:1.4A, O/P: +24Vdc/5.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-24B	
HLG-120H-24	I/P: 1.4A, O/P: +24Vdc/5.0A
HLG-120-24	
HLG-120H-30A	I/P: 1.4A, O/P: +30Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-120-30A	
HLG-120H-30B	I/P: 1.4A, O/P: +30Vdc/4.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-30B	
HLG-120H-30	I/P: 1.4A, O/P: +30Vdc/4.0A
HLG-120-30	
HLG-120H-36A	I/P: 1.4A, O/P: +36Vdc/3.4A (top cover with two holes, blocked with plastic cap)
HLG-120-36A	
HLG-120H-36B	I/P: 1.4A, O/P: +36Vdc/3.4A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-36B	
HLG-120H-36	I/P: 1.4A, O/P: +36Vdc/3.4A
HLG-120-36	
HLG-120H-42A	I/P: 1.4A, O/P: +42Vdc/2.9A (top cover with two holes, blocked with plastic cap)
HLG-120-42A	
HLG-120H-42B	I/P: 1.4A, O/P: +42Vdc/2.9A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-42B	
HLG-120H-42	I/P: 1.4A, O/P: +42Vdc/2.9A
HLG-120-42	
HLG-120H-48A	I/P:1.4A, O/P: +48Vdc/2.5A (top cover with two holes, blocked with plastic cap)
HLG-120-48A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-48B	I/P: 1.4A, O/P: +48Vdc/2.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-48B	
HLG-120H-48	I/P: 1.4A, O/P: +48Vdc/2.5A
HLG-120-48	
HLG-120H-54A	I/P: 1.4A, O/P: +54Vdc/2.3A (top cover with two holes, blocked with plastic cap)
HLG-120-54A	
HLG-120H-54B	I/P: 1.4A, O/P: +54Vdc/2.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-54B	
HLG-120H-54	I/P: 1.4A, O/P: +54Vdc/2.3A
HLG-120-54	
HLG-100H-20A	I/P: 1.2A, O/P: +20Vdc/4.8A (top cover with two holes, blocked with plastic cap)
HLG-100-20A	
HLG-100H-20B	I/P: 1.2A, O/P: +20Vdc/4.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-20B	
HLG-100H-20	I/P: 1.2A, O/P: +20Vdc/4.8A
HLG-100-20	
HLG-100H-24A	I/P: 1.2A, O/P: +24Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-100-24A	
HLG-100H-24B	I/P: 1.2A, O/P: +24Vdc/4.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-24B	
HLG-100H-24	I/P: 1.2A, O/P: +24Vdc/4.0A
HLG-100-24	
HLG-100H-30A	I/P: 1.2A, O/P: +30Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-100-30A	
HLG-100H-30B	I/P:1.2A, O/P: +30Vdc/3.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-30B	
HLG-100H-30	I/P: 1.2A, O/P: +30Vdc/3.2A
HLG-100-30	
HLG-100H-36A	I/P: 1.2A, O/P: +36Vdc/2.65A (top cover with two holes, blocked with plastic cap)
HLG-100-36A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-100H-36B	I/P: 1.2A, O/P: +36Vdc/2.65A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-36B	
HLG-100H-36	I/P: 1.2A, O/P: +36Vdc/2.65A
HLG-100-36	
HLG-100H-42A	I/P: 1.2A, O/P: +42Vdc/2.28A (top cover with two holes, blocked with plastic cap)
HLG-100-42A	
HLG-100H-42B	I/P: 1.2A, O/P: +42Vdc/2.28A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-42B	
HLG-100H-42	I/P: 1.2A, O/P: +42Vdc/2.28A
HLG-100-42	
HLG-100H-48A	I/P: 1.2A, O/P: +48Vdc/2.0A (top cover with two holes, blocked with plastic cap)
HLG-100-48A	
HLG-100H-48B	I/P: 1.2A, O/P: +48Vdc/2.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-48B	
HLG-100H-48	I/P: 1.2A, O/P: +48Vdc/2.0A
HLG-100-48	
HLG-100H-54A	I/P: 1.2A, O/P: +54Vdc/1.77A (top cover with two holes, blocked with plastic cap)
HLG-100-54A	
HLG-100H-54B	I/P: 1.2A, O/P: +54Vdc/1.77A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-54B	
HLG-100H-54	I/P: 1.2A, O/P: +54Vdc/1.77A
HLG-100-54	
HLG-120-48A-110W	O/P : 110 W, 45.3 V, 2.24 A
HLG-150-54A-130W	O/P : 130W, 54.1 V, 2.34 A

제품특기사항 및 시험조건 Remarks & Test conditions
1. Test Report Ref. No. : 11-1920-3066 (2011.08.04.) 2. Product Description - DC or AC supplied electronic controlgear for LEDs - Rating - PRI : AC100-240 V 50/60 Hz 200 W SEC : 54 Vd.c. 3.45 A - PF : > 0.9 - Type of protection : IP 67 - tc : 90 ℃, ta : 60 ℃ - Protection class : Class I - This product is totally enclosed electronic controlgear. - Constant voltage type, Independent SELV equivalent
□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 인증산업본부 정보조명평가센터 남 상엽 / (02)860-1427 □ *If you have any question on product testing, please contact the person below :* *Job holder : Certification Business Division, IT & Lighting Testing Center, Sang-Yeop Nam/+82 2 8601-1427*

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□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions

1st Rev.) Critical component is changed. (11-1920-5308 : 2011.10.10.)

- Chang of Manufacturer

Component	Before	After
X-capacitor(C1, C2)	Ar otronics	KEMET(Arcotronics)

2nd Rev.) Addition of derivative models.(11-1920-0294 : 2012.02.20.)

- "HLG-120-48A-110W", "HLG-150-54A-130W"

3rd Rev.) Addition of factory (16-015152-11 : 2016.03.24.)

- Factory name : Mean Well (Guangzhou) Electronics Co., Ltd.

Address : 2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

4th Rev.) Change Addition factory name, address and president (16-067872-16 : 2016.12.08.)

- Before: Mean Well (Guangzhou) Electronics Co., Ltd. / Wang Fei Long

2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

After : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming

No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China

5th Rev.) Addition of components (17-021470-01 : 2017.04.17.)

- Addition of components

Component	Manufacturer	Model(Type)	Characteristics
Power Cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 ㎟-1.0 ㎟	3G x 0.75 mm^2-1.0 mm^2
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	245 IEC 57 H05RN-F 2C-3CX0.75 ㎟-1 ㎟	3C x 0.75 mm^2-1.0 mm^2
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 ㎟-4 ㎟	3G x 1.0 mm^2-4.0 mm^2

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접 수 번 호
(Receipt No.) : 16-067872-16

전 기 용 품 안 전 인 증 서

Electrical Appliances Safety Certificate

안 전 인 증 번 호 (Certificate No.)	:	SZ11007-11005D
제 조 업 자 명 (Manufacturer)	:	MEAN WELL Enterprises Co., Ltd.
대 표 자 명 (President)	:	Mr. Jerry Lin
제조공장의 주소 (Factory Address)	:	No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
제 품 명 (Product)	:	조명기구용컨버터(LED램프용) (Electronic controlgear)
기 본 모 델 명 (Basic Model)	:	HLG-185-54
정 격 (Rating)	:	AC100~240 V, 50/60Hz, 2.0-0.85 A, 200 W (Output : DC54 V, 3.45 A)
파 생 모 델 명 (Series Model)	:	See the attachment 2
적 용 기 준 (Standard)	:	K61347-1(2010-08), K61347-2-13(2011-12), K62384(2010-08), K00015(2009-12), K61547(2009-12)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.
We Issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.

2016 년 12 월 08 일
Year month day

ktl 한국산업기술시험원장
KOREA TESTING LABORATORY

※ 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨 부 :
(Annex)
1. 안전관리부품 및 재질목록 (List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 전기용품안전인증의 변경 현황 (Revisions Status)

안전인증시의 조건 : 동 제품의 생산 시 자체검사를 실시하고 안전인증 시 등록된 부품누락 및 임의 변경하지 말 것.
(Terms of the Safety Certification :Factories have to conduct the 'Self Product Verification' and it is prohibited to omit and modify the components registered on the Safety Certificate when producing the certified products.)

Korea Testing Laboratory

안전인증번호
Certification No. : SZ11007-11005D

다수의 공장 현황
(The status of Multiple Factories)

No	현 황	
1	다수의 공장의 명 (Name)	MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch
	주소 (Address)	No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou , P.R. China
	제조국명 (Origin)	중국

□ 첨부 1 : 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST-series	T3.15 A 250 Vac	VDE
	Conquer	MST-series	T4 A 250 Vac	VDE
Y-capacitor (C3, C4)	Walsin	AC	1000 pF 250 Vac 125 ℃	VDE
	Walsin	AH		
	TDK	CD		
	TDK	CS		
	Murata	KX		KC
	Murata	KH		KC
Varistor (ZNR2)	Thinking	TVR10361-D	230 Vac, 300Vdc	UL
	Centra Science	CNR14D361K		
	Joyin	14S361K, 14N361K		
	Nippon Chemicon	TVR14V361K		
Varistor (ZNR1)	Thinking	TVR14511-D	320Vac, 410Vdc	UL
	Centra Science	CNR14D511K		
	Joyin	14S511K, 14N511K		
	Nippon Chemicon	TNR14V511K		
X-capacitor (C1, C2) (C1=0.33 μF, C2=0.22 μF for HLG-100X-YZ, HLG-120X-YZ, C1=C2=0.47 μF for HLG-150X-YZ, HLG-185X-YZ X=H or blank Y=12,15,20,24,30, 36,42,48,54 Z=A, B or blank)	KEMET(Arcotronics)	R.46	300 Vac, 110 ℃	ENEC
	KEMET(Arcotronics)	R.49	310 Vac, 110 ℃	ENEC
	ISKRA	KNB 1530	300 Vac, 100 ℃	VDE
	ISKRA	KNB 1560	300 Vac, 125 ℃	VDE
	Epcos	B3292#...	305 Vac, 105 ℃	VDE
	Liow Gu	GS-L	275 Vac, 100 ℃	VDE
	Pilkor	PCX2 335M	275 Vac, 105 ℃	ENEC
	Pilkor	PCX2 337	275 Vac, 100 ℃	VDE
	Ultra	HQX	275 Vac, 100 ℃	VDE
	Vishay BC Components	339	275 Vac, 105 ℃	ENEC
	Cheng Tung	CTX	300 Vac, 100 ℃	VDE
	Shiny Space	SX1	300 Vac, 100 ℃	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Photo Coupler (U3, U4)	Cosmo	K1010	dti.=0.7 mm int. dcr=5.2 mm ext. dcr=8 mm thermal cycling test, 115 ℃	VDE/UL
	Lite-On	LTV-817	dti.=0.8 mm int. dcr=5.2 mm ext. dcr=7.8 mm, 100 ℃	VDE/UL
	Sharp	PC123	dti.=0.7 mm int. dcr=5 mm ext. dcr=8 mm thermal cycling test, 110 ℃	VDE/UL
Bridging capacitor (C31)	Walsin	AH	1000 pF, 250 Vac, Y1	VDE
	TDK	CD	1000 pF, 250 Vac, Y1	VDE
	Murata	KX	1000 pF, 250 Vac, Y1	KC
Choke (LF2)	Mean Well	TR-953	130 ℃	-
Choke (LF3)	Mean Well	TR-948	130 ℃	-
Choke (L1)	Mean Well	TR-954	130 ℃	-
PFC Choke (L2) (For HLG-WX-YZ, W=100, 120 X=H or blank Y=12,15,20,24,30, 36,42,48,54 Z=A, B or blank)	Mean Well	TF-2072	130 ℃	-
PFC Choke (L2) (For HLG-WX-YZ, W=150, 185 X=H or blank Y=15,20,24,30,36, 42,48,54 Z=A, B or blank)	Mean Well	TF-2071	130 ℃	-
PFC Choke (L2) (For HLG-WX-12Z W=150, 185 X=H or blank Z=A, B or blank)	Mean Well	TF-1991	130 ℃	-
Transformer (T1) (For HLG-120-12Z Z=A, B or blank)	Yu Jing	TF-2053	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-120-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2054	Class B	-
Transformer (T1) (For HLG-100-20Z, HLG-120-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2055	Class B	-
Transformer (T1) (For HLG-100-24Z, HLG-120-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2056	Class B	-
Transformer (T1) (For HLG-100-30Z, HLG-120-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2057	Class B	-
Transformer (T1) (For HLG-100-36Z, HLG-120-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2058	Class B	-
Transformer (T1) (For HLG-100-42Z, HLG-120-42Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2059	Class B	-
Transformer (T1) (For HLG-100-48Z, HLG-120-48Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2060	Class B	-
Transformer (T1) (For HLG-100-54Z, HLG-120-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2061	Class B	-
Transformer (T1) (For HLG-120H-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2073	Class B	-
Transformer (T1) (For HLG-120H-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2074	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-100H-20Z, HLG-120H-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2075	Class B	-
Transformer (T1) (For HLG-100H-24Z, HLG-120H-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2076	Class B	-
Transformer (T1) (For HLG-100H-30Z, HLG-120H-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2077	Class B	-
Transformer (T1) (For HLG-100H-36Z, HLG-120H-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2078	Class B	-
Transformer (T1) (For HLG-100H-42Z, HLG-120H-42Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2079	Class B	-
Transformer (T1) (For HLG-100H-48Z, HLG-120H-48Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2080	Class B	-
Transformer (T1) (For HLG-100H-54Z, HLG-120H-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2081	Class B	-
Transformer (T1) (For HLG-150-12Z, HLG-185-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2016	Class B	-
Transformer (T1) (For HLG-150-15Z, HLG-185-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2017	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150-20Z, HLG-185-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2018	Class B	-
Transformer (T1) (For HLG-150-24Z, HLG-185-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-1999	Class B	-
Transformer (T1) (For HLG-150-30Z, HLG-185-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2019	Class B	-
Transformer (T1) (For HLG-150-36Z, HLG-185-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2020	Class B	-
Transformer (T1) (For HLG-150-42Z, HLG-185-42Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2021	Class B	-
Transformer (T1) (For HLG-150-48Z, HLG-185-48Z, HLG-150H-54Z, HLG-185H-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2022	Class B	-
Transformer (T1) (For HLG-150-54Z, HLG-185-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2023	Class B	-
Transformer (T1) (For HLG-150H-12Z, HLG-185H-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2062	Class B	-
Transformer (T1) (For HLG-150H-15Z, HLG-185H-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2063	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150H-20Z, HLG-185H-20Z Z=A, B or blank)	Yu Jing	TF-2064	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-24Z, HLG-185H-24Z Z=A, B or blank)	Yu Jing	TF-2065	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-30Z, HLG-185H-30Z Z=A, B or blank)	Yu Jing	TF-2066	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-36Z, HLG-185H-36Z Z=A, B or blank)	Yu Jing	TF-2067	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-42Z, HLG-185H-42Z Z=A, B or blank)	Yu Jing	TF-2068	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-48Z, HLG-185H-48Z Z=A, B or blank)	Yu Jing	TF-2069	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75mm^2 3C x 1mm^2	KC
	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75mm^2 3C x 1mm^2 3C x 1.5mm^2	KC
	I-sheng	60227 IEC 53	3G x 0.75mm^2 3G x 1.0mm^2 3G x 1.5mm^2 3G x 2.5mm^2	KC
	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75mm^2	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75mm^2 3G x 1.0mm^2	KC
	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75mm^2	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75mm^2 3G x 1.0mm^2	KC
	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75mm^2	KC
		K60227 IEC 53 H05VVH-F	3C x 0.75mm^2 3C x 1.0mm^2 3C x 1.5mm^2 3C x 2.0mm^2 3C x 2.5mm^2	KC
	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75mm^2 3C x 1.0mm^2 3C x 1.5mm^2 3C x 2.0mm^2 3C x 2.5mm^2	KC
Potting Compound	DOW Coming Corp.	SYLGARD 160	Gray, rated 105 ℃	UL
	Shin Etsu Silicone	KET-132A/B	Natural, rated 105 ℃	
	DOW CORNING (SHANGHAI) CO LTD	CN8760 CN8760G	Black, rated 150 ℃	UL

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D	Min. V-1, Min. 130 ℃	UL
	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		UL
	HONG SHIEN ENTERPRISE CO LTD	03V-0		UL
	HONG WEI ENTERPRISES CO LTD	79		UL
	HSU TZU ELECTRONIC CO LTD	4V0		UL
	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		UL
	HSIANG KUO INDUSTRIAL CO LTD	76V0A		UL
Mylar Sheet	-	-	Min.V-2, min.0.2 ㎜	UL

☐ 유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

   As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiful listing or changing the items above, the certification revision shall be applied.

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품안전관리법 제 8 조제 1 항의 규정에 의한 안전인증취소 사유가 됨을 유의하시기 바랍니다.

   The Safety Certification will be cancelled under the Safety Control Law for Electrical Appliances, Paragraph 1 of Article 8 if the contents of the Certification is altered without our authorization.

FP511-10-00

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-12A	I/P: 1.8A ; O/P: +12Vdc/13A (top cover with two holes, blocked with plastic cap)
HLG-185-12A	
HLG-185H-12B	I/P:1.8A ; O/P: +12Vdc/13A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-12B	
HLG-185H-12	I/P: 1.8A ; O/P: +12Vdc/13A
HLG-185-12	
HLG-185H-15A	I/P : 2.1A, O/P: +15Vdc/11.5A (top cover with two holes, blocked with plastic cap)
HLG-185-15A	
HLG-185H-15B	I/P : 2.1A, O/P: +15Vdc/11.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-15B	
HLG-185H-15	I/P : 2.1A, O/P: +15Vdc/11.5A
HLG-185-15	
HLG-185H-20A	I/P : 2.1A, O/P: +20Vdc/9.3A (top cover with two holes, blocked with plastic cap)
HLG-185-20A	
HLG-185H-20B	I/P : 2.1A, O/P: +20Vdc/9.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-20B	
HLG-185H-20	I/P : 2.1A, O/P: +20Vdc/9.3A
HLG-185-20	
HLG-185H-24A	I/P : 2.1A, O/P: +24Vdc/7.8A (O top cover with two holes, blocked with plastic cap)
HLG-185-24A	
HLG-185H-24B	I/P : 2.1A, O/P: +24Vdc/7.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-24B	
HLG-185H-24	I/P : 2.1A, O/P: +24Vdc/7.8A
HLG-185-24	
HLG-185H-30A	I/P : 2.1A, O/P: +30Vdc/6.2A (top cover with two holes, blocked with plastic cap)
HLG-185-30A	
HLG-185H-30B	I/P : 2.1A, O/P: +30Vdc/6.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-30B	
HLG-185H-30	I/P : 2.1A, O/P: +30Vdc/6.2A
HLG-185-30	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-36A	I/P : 2.1A, O/P: +36Vdc/5.2A (top cover with two holes, blocked with plastic cap)
HLG-185-36A	
HLG-185H-36B	I/P : 2.1A, O/P: +36Vdc/5.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-36B	
HLG-185H-36	I/P : 2.1A, O/P: +36Vdc/5.2A
HLG-185-36	
HLG-185H-42A	I/P : 2.1A, O/P: +42Vdc/4.4A (top cover with two holes, blocked with plastic cap)
HLG-185-42A	
HLG-185H-42B	I/P : 2.1A, O/P: +42Vdc/4.4A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-42B	
HLG-185H-42	I/P : 2.1A, O/P: +42Vdc/4.4A
HLG-185-42	
HLG-185H-48A	I/P : 2.1A, O/P: +48Vdc/3.9A (top cover with two holes, blocked with plastic cap)
HLG-185-48A	
HLG-185H-48B	I/P : 2.1A, O/P: +48Vdc/3.9A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-48B	
HLG-185H-48	I/P : 2.1A, O/P: +48Vdc/3.9A
HLG-185-48	
HLG-185H-54A	I/P : 2.1A, O/P: +54Vdc/3.45A (top cover with two holes, blocked with plastic cap)
HLG-185-54A	
HLG-185H-54B	I/P : 2.1A, O/P: +54Vdc/3.45A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-54B	
HLG-185H-54	Model name
HLG-150H-12A	I/P: 1.7A, O/P: +12Vdc/12.5A (top cover with two holes, blocked with plastic cap)
HLG-150-12A	
HLG-150H-12B	I/P: 1.7A, O/P: +12Vdc/12.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-12B	
HLG-150H-12	I/P: 1.7A, O/P: +12Vdc/12.5A
HLG-150-12	
HLG-150H-15A	I/P: 1.7A, O/P: +15Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-150-15A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-15B	I/P: 1.7A, O/P: +15Vdc/10A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-15B	
HLG-150H-15	I/P: 1.7A, O/P: +15Vdc/10A
HLG-150-15	
HLG-150H-20A	I/P: 1.7A, O/P: +20Vdc/7.5A (cover with two holes, blocked with plastic cap)
HLG-150-20A	
HLG-150H-20B	I/P:1.7A, O/P: +20Vdc/7.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-20B	
HLG-150H-20	I/P: 1.7A, O/P: +20Vdc/7.5A
HLG-150-20	
HLG-150H-24A	I/P: 1.7A, O/P: +24Vdc/6.3A (top cover with two holes, blocked with plastic cap)
HLG-150-24A	
HLG-150H-24B	I/P: 1.7A, O/P: +24Vdc/6.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-24B	
HLG-150H-24	I/P: 1.7A, O/P: +24Vdc/6.3A
HLG-150-24	
HLG-150H-30A	I/P: 1.7A, O/P: +30Vdc/5A (top cover with two holes, blocked with plastic cap)
HLG-150-30A	
HLG-150H-30B	I/P: 1.7A, O/P: +30Vdc/5A (IO/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-30B	
HLG-150H-30	I/P: 1.7A, O/P: +30Vdc/5A
HLG-150-30	
HLG-150H-36A	I/P: 1.7A, O/P: +36Vdc/4.2A (cover with two holes, blocked with plastic cap)
HLG-150-36A	
HLG-150H-36B	I/P:1.7A, O/P: +36Vdc/4.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-36B	
HLG-150H-36	I/P: 1.7A, O/P: +36Vdc/4.2A
HLG-150-36	
HLG-150H-42A	I/P: 1.7A, O/P: +42Vdc/3.6A (cover with two holes, blocked with plastic cap)
HLG-150-42A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-42B	I/P:1.7A, O/P: +42Vdc/3.6A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-42B	
HLG-150H-42	I/P: 1.7A, O/P: +42Vdc/3.6A
HLG-150-42	
HLG-150H-48A	I/P: 1.7A, O/P: +48Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-150-48A	
HLG-150H-48B	I/P:1.7A, O/P: +48Vdc/3.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-48B	
HLG-150H-48	I/P:1.7A, O/P: +48Vdc/3.2A
HLG-150-48	
HLG-150H-54A	I/P: 1.7A, O/P: +54Vdc/2.8A (top cover with two holes, blocked with plastic cap)
HLG-150-54A	
HLG-150H-54B	I/P:1.7A, O/P: +54Vdc/2.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-54B	
HLG-150H-54	I/P: 1.7A, O/P: +54Vdc/2.8A
HLG-150-54	
HLG-120H-12A	I/P: 1.4A, O/P: +12Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-120-12A	
HLG-120H-12B	I/P:1.4A, O/P: +12Vdc/10A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-12B	
HLG-120H-12	I/P: 1.4A, O/P: +12Vdc/10A
HLG-120-12	
HLG-120H-15A	I/P: 1.4A, O/P: +15Vdc/8.0A (top cover with two holes, blocked with plastic cap)
HLG-120-15A	
HLG-120H-15B	I/P:1.4A, O/P: +15Vdc/8.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-15B	
HLG-120H-15	I/P: 1.4A, O/P: +15Vdc/8.0A
HLG-120-15	
HLG-120H-20A	I/P: 1.4A, O/P: +20Vdc/6.0A (top cover with two holes, blocked with plastic cap)
HLG-120-20A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-20B	I/P: 1.4A, O/P: +20Vdc/6.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-20B	
HLG-120H-20	I/P: 1.4A, O/P: +20Vdc/6.0A
HLG-120-20	
HLG-120H-24A	I/P: 1.4A, O/P: +24Vdc/5.0A (top cover with two holes, blocked with plastic cap)
HLG-120-24A	
HLG-120H-24B	I/P:1.4A, O/P: +24Vdc/5.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-24B	
HLG-120H-24	I/P: 1.4A, O/P: +24Vdc/5.0A
HLG-120-24	
HLG-120H-30A	I/P: 1.4A, O/P: +30Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-120-30A	
HLG-120H-30B	I/P: 1.4A, O/P: +30Vdc/4.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-30B	
HLG-120H-30	I/P: 1.4A, O/P: +30Vdc/4.0A
HLG-120-30	
HLG-120H-36A	I/P: 1.4A, O/P: +36Vdc/3.4A (top cover with two holes, blocked with plastic cap)
HLG-120-36A	
HLG-120H-36B	I/P: 1.4A, O/P: +36Vdc/3.4A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-36B	
HLG-120H-36	I/P: 1.4A, O/P: +36Vdc/3.4A
HLG-120-36	
HLG-120H-42A	I/P: 1.4A, O/P: +42Vdc/2.9A (top cover with two holes, blocked with plastic cap)
HLG-120-42A	
HLG-120H-42B	I/P: 1.4A, O/P: +42Vdc/2.9A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-42B	
HLG-120H-42	I/P: 1.4A, O/P: +42Vdc/2.9A
HLG-120-42	
HLG-120H-48A	I/P:1.4A, O/P: +48Vdc/2.5A (top cover with two holes, blocked with plastic cap)
HLG-120-48A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-48B	I/P: 1.4A, O/P: +48Vdc/2.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-48B	
HLG-120H-48	I/P: 1.4A, O/P: +48Vdc/2.5A
HLG-120-48	
HLG-120H-54A	I/P: 1.4A, O/P: +54Vdc/2.3A (top cover with two holes, blocked with plastic cap)
HLG-120-54A	
HLG-120H-54B	I/P: 1.4A, O/P: +54Vdc/2.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-54B	
HLG-120H-54	I/P: 1.4A, O/P: +54Vdc/2.3A
HLG-120-54	
HLG-100H-20A	I/P: 1.2A, O/P: +20Vdc/4.8A (top cover with two holes, blocked with plastic cap)
HLG-100-20A	
HLG-100H-20B	I/P: 1.2A, O/P: +20Vdc/4.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-20B	
HLG-100H-20	I/P: 1.2A, O/P: +20Vdc/4.8A
HLG-100-20	
HLG-100H-24A	I/P: 1.2A, O/P: +24Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-100-24A	
HLG-100H-24B	I/P: 1.2A, O/P: +24Vdc/4.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-24B	
HLG-100H-24	I/P: 1.2A, O/P: +24Vdc/4.0A
HLG-100-24	
HLG-100H-30A	I/P: 1.2A, O/P: +30Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-100-30A	
HLG-100H-30B	I/P:1.2A, O/P: +30Vdc/3.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-30B	
HLG-100H-30	I/P: 1.2A, O/P: +30Vdc/3.2A
HLG-100-30	
HLG-100H-36A	I/P: 1.2A, O/P: +36Vdc/2.65A (top cover with two holes, blocked with plastic cap)
HLG-100-36A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-100H-36B	I/P: 1.2A, O/P: +36Vdc/2.65A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-36B	
HLG-100H-36	I/P: 1.2A, O/P: +36Vdc/2.65A
HLG-100-36	
HLG-100H-42A	I/P: 1.2A, O/P: +42Vdc/2.28A (top cover with two holes, blocked with plastic cap)
HLG-100-42A	
HLG-100H-42B	I/P: 1.2A, O/P: +42Vdc/2.28A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-42B	
HLG-100H-42	I/P: 1.2A, O/P: +42Vdc/2.28A
HLG-100-42	
HLG-100H-48A	I/P: 1.2A, O/P: +48Vdc/2.0A (top cover with two holes, blocked with plastic cap)
HLG-100-48A	
HLG-100H-48B	I/P: 1.2A, O/P: +48Vdc/2.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-48B	
HLG-100H-48	I/P: 1.2A, O/P: +48Vdc/2.0A
HLG-100-48	
HLG-100H-54A	I/P: 1.2A, O/P: +54Vdc/1.77A (top cover with two holes, blocked with plastic cap)
HLG-100-54A	
HLG-100H-54B	I/P: 1.2A, O/P: +54Vdc/1.77A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-54B	
HLG-100H-54	I/P: 1.2A, O/P: +54Vdc/1.77A
HLG-100-54	
HLG-120-48A-110W	O/P : 110 W, 45.3 V, 2.24 A
HLG-150-54A-130W	O/P : 130W, 54.1 V, 2.34 A

제품특기사항 및 시험조건
Remarks & Test conditions

1. Test Report Ref. No. : 11-1920-3066 (2011.08.04.)

2. Product Description

- DC or AC supplied electronic controlgear for LEDs
- Rating - PRI : AC100-240 V 50/60 Hz 200 W
  SEC : 54 Vd.c. 3.45 A
- PF : > 0.9
- Type of protection : IP 67
- tc : 90 ℃, ta : 60 ℃
- Protection class : Class I
- This product is totally enclosed electronic controlgear.
- Constant voltage type, Independent SELV equivalent

□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다.
시험담당자 : 인증산업본부 정보조명평가센터 정 재훈 / (02)860-1424
□ *If you have any question on product testing, please contact the person below :*
Job holder : Certification Business Division, IT & Lighting Testing Center, Jae-Hoon Jung/+83 2 8601-424

FP511-09-00

□ 첨부 3 : 전기용품안전인증의 변경 현황
Status of Certificate Revisions

변경발급 내용 Contents of Certificate Revisions
1st Rev.) Critical component is changed. (11-1920-5308 : 2011.10.10.) - Chang of Manufacturer

Component	Before	After
X-capacitor(C1, C2)	Ar otronics	KEMET(Arcotronics)

2nd Rev.) Addition of derivative models.(11-1920-0294 : 2012.02.20.)

- " HLG-120-48A-110W" , " HLG-150-54A-130W"

3rd Rev.) Addition of factory (16-015152-11 : 2016.03.24.)

- Factory name : Mean Well (Guangzhou) Electronics Co., Ltd.

Address : 2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

4th Rev.) Change Addition factory name, address and president (16-067872-16 : 2016.12.08.)

- Before: Mean Well (Guangzhou) Electronics Co., Ltd. / Wang Fei Long

2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

After : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming

No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China

FP511-11-00

접 수 번 호 (Receipt No.) : 16-015152-11

전 기 용 품 안 전 인 증 서

Electrical Appliances Safety Certificate

안 전 인 증 번 호 (Certificate No.)	:	SZ11007-11005C
제 조 업 자 명 (Manufacturer)	:	Mean Well Enterprises Co., Ltd.
대 표 자 명 (President)	:	Mr. Jerry Lin
제조공장의 주소 (Factory Address)	:	No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
제 품 명 (Product)	:	조명기구용컨버터(LED램프용) (Electronic controlgear)
기 본 모 델 명 (Basic Model)	:	HLG-185-54
정 격 (Rating)	:	AC100~240 V, 50/60Hz, 2.0-0.85 A, 200 W (Output : DC54 V, 3.45A)
파 생 모 델 명 (Series Model)	:	See the attachment 2
적 용 기 준 (Standard)	:	K61347-1(2010-08), K61347-2-13(2011-12), K62384(2010-08), K00015(2009-12), K61547(2009-12)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

We Issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.

2016 년 03 월 24 일
Year month day

ktl 한국산업기술시험원장
KOREA TESTING LABORATORY

※ 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨 부 : (Annex)
1. 안전관리부품 및 재질목록 (List of Critical Components)
2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
3. 전기용품안전인증의 변경 현황 (Revisions Status)

안전인증시의 조건 : 동 제품의 생산 시 자체검사를 실시하고 안전인증 시 등록된 부품누락 및 임의 변경하지 말 것.
(Terms of the Safety Certification :Factories have to conduct the 'Self Product Verification' and it is prohibited to omit and modify the components registered on the Safety Certificate when producing the certified products.)

Korea Testing Laboratory

안전인증번호
Certification No. : SZ11007-11005C

다수의 공장 현황
(The status of Multiple Factories)

No	현 황	
1	다수의 공장의 명 (Name)	Mean Well (Guangzhou) Electronics Co., Ltd.
	주소 (Address)	2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China
	제조국명 (Origin)	중국

□ 첨부 1 : 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST-series	T3.15 A 250 Vac	VDE
	Conquer	MST-series	T4 A 250 Vac	VDE
Y-capacitor (C3, C4)	Walsin	AC	1000 pF 250 Vac 125 ℃	VDE
	Walsin	AH		
	TDK	CD		
	TDK	CS		
	Murata	KX		KC
	Murata	KH		KC
Varistor (ZNR2)	Thinking	TVR10361-D	230 Vac, 300Vdc	UL
	Centra Science	CNR14D361K		
	Joyin	14S361K, 14N361K		
	Nippon Chemicon	TVR14V361K		
Varistor (ZNR1)	Thinking	TVR14511-D	320Vac, 410Vdc	UL
	Centra Science	CNR14D511K		
	Joyin	14S511K, 14N511K		
	Nippon Chemicon	TNR14V511K		
X-capacitor (C1, C2) (C1=0.33 μF, C2=0.22 μF for HLG-100X-YZ, HLG-120X-YZ, C1=C2=0.47 μF for HLG-150X-YZ, HLG-185X-YZ X=H or blank Y=12,15,20,24,30, 36,42,48,54 Z=A, B or blank)	KEMET(Arcotronics)	R.46	300 Vac, 110 ℃	ENEC
	KEMET(Arcotronics)	R.49	310 Vac, 110 ℃	ENEC
	ISKRA	KNB 1530	300 Vac, 100 ℃	VDE
	ISKRA	KNB 1560	300 Vac, 125 ℃	VDE
	Epcos	B3292#...	305 Vac, 105 ℃	VDE
	Liow Gu	GS-L	275 Vac, 100 ℃	VDE
	Pilkor	PCX2 335M	275 Vac, 105 ℃	ENEC
	Pilkor	PCX2 337	275 Vac, 100 ℃	VDE
	Ultra	HQX	275 Vac, 100 ℃	VDE
	Vishay BC Components	339	275 Vac, 105 ℃	ENEC
	Cheng Tung	CTX	300 Vac, 100 ℃	VDE
	Shiny Space	SX1	300 Vac, 100 ℃	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Photo Coupler (U3, U4)	Cosmo	K1010	dti.=0.7 ㎜ int. dcr=5.2 ㎜ ext. dcr=8 ㎜ thermal cycling test, 115 ℃	VDE/UL
	Lite-On	LTV-817	dti.=0.8 ㎜ int. dcr=5.2 ㎜ ext. dcr=7.8 ㎜, 100 ℃	VDE/UL
	Sharp	PC123	dti.=0.7 ㎜ int. dcr=5 ㎜ ext. dcr=8 ㎜ thermal cycling test, 110 ℃	VDE/UL
Bridging capacitor (C31)	Walsin	AH	1000 ㎊, 250 Vac, Y1	VDE
	TDK	CD	1000 ㎊, 250 Vac, Y1	VDE
	Murata	KX	1000 ㎊, 250 Vac, Y1	KC
Choke (LF2)	Mean Well	TR-953	130 ℃	-
Choke (LF3)	Mean Well	TR-948	130 ℃	-
Choke (L1)	Mean Well	TR-954	130 ℃	-
PFC Choke (L2) (For HLG-WX-YZ, W=100, 120 X=H or blank Y=12,15,20,24,30, 36,42,48,54 Z=A, B or blank)	Mean Well	TF-2072	130 ℃	-
PFC Choke (L2) (For HLG-WX-YZ, W=150, 185 X=H or blank Y=15,20,24,30,36, 42,48,54 Z=A, B or blank)	Mean Well	TF-2071	130 ℃	-
PFC Choke (L2) (For HLG-WX-12Z W=150, 185 X=H or blank Z=A, B or blank)	Mean Well	TF-1991	130 ℃	-
Transformer (T1) (For HLG-120-12Z Z=A, B or blank)	Yu Jing	TF-2053	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-120-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2054	Class B	-
Transformer (T1) (For HLG-100-20Z, HLG-120-20Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2055	Class B	-
Transformer (T1) (For HLG-100-24Z, HLG-120-24Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2056	Class B	-
Transformer (T1) (For HLG-100-30Z, HLG-120-30Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2057	Class B	-
Transformer (T1) (For HLG-100-36Z, HLG-120-36Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2058	Class B	-
Transformer (T1) (For HLG-100-42Z, HLG-120-42Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2059	Class B	-
Transformer (T1) (For HLG-100-48Z, HLG-120-48Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2060	Class B	-
Transformer (T1) (For HLG-100-54Z, HLG-120-54Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2061	Class B	-
Transformer (T1) (For HLG-120H-12Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2073	Class B	-
Transformer (T1) (For HLG-120H-15Z Z=A, B or blank)	Yu Jing Elytone Mean Well	TF-2074	Class B	-

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-100H-20Z, HLG-120H-20Z Z=A, B or blank)	Yu Jing	TF-2075	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-24Z, HLG-120H-24Z Z=A, B or blank)	Yu Jing	TF-2076	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-30Z, HLG-120H-30Z Z=A, B or blank)	Yu Jing	TF-2077	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-36Z, HLG-120H-36Z Z=A, B or blank)	Yu Jing	TF-2078	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-42Z, HLG-120H-42Z Z=A, B or blank)	Yu Jing	TF-2079	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-48Z, HLG-120H-48Z Z=A, B or blank)	Yu Jing	TF-2080	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-54Z, HLG-120H-54Z Z=A, B or blank)	Yu Jing	TF-2081	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-12Z, HLG-185-12Z Z=A, B or blank)	Yu Jing	TF-2016	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-15Z, HLG-185-15Z Z=A, B or blank)	Yu Jing	TF-2017	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150-20Z, HLG-185-20Z Z=A, B or blank)	Yu Jing	TF-2018	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-24Z, HLG-185-24Z Z=A, B or blank)	Yu Jing	TF-1999	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-30Z, HLG-185-30Z Z=A, B or blank)	Yu Jing	TF-2019	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-36Z, HLG-185-36Z Z=A, B or blank)	Yu Jing	TF-2020	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-42Z, HLG-185-42Z Z=A, B or blank)	Yu Jing	TF-2021	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-48Z, HLG-185-48Z, HLG-150H-54Z, HLG-185H-54Z Z=A, B or blank)	Yu Jing	TF-2022	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-54Z, HLG-185-54Z Z=A, B or blank)	Yu Jing	TF-2023	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-12Z, HLG-185H-12Z Z=A, B or blank)	Yu Jing	TF-2062	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-15Z, HLG-185H-15Z Z=A, B or blank)	Yu Jing	TF-2063	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150H-20Z, HLG-185H-20Z Z=A, B or blank)	Yu Jing	TF-2064	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-24Z, HLG-185H-24Z Z=A, B or blank)	Yu Jing	TF-2065	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-30Z, HLG-185H-30Z Z=A, B or blank)	Yu Jing	TF-2066	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-36Z, HLG-185H-36Z Z=A, B or blank)	Yu Jing	TF-2067	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-42Z, HLG-185H-42Z Z=A, B or blank)	Yu Jing	TF-2068	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-48Z, HLG-185H-48Z Z=A, B or blank)	Yu Jing	TF-2069	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75mm^2 3C x 1mm^2	KC
	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75mm^2 3C x 1mm^2 3C x 1.5mm^2	KC
	I-sheng	60227 IEC 53	3G x 0.75mm^2 3G x 1.0mm^2 3G x 1.5mm^2 3G x 2.5mm^2	KC
	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75mm^2	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75mm^2 3G x 1.0mm^2	KC
	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75mm^2	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75mm^2 3G x 1.0mm^2	KC
	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75mm^2	KC
		K60227 IEC 53 H05VVH-F	3C x 0.75mm^2 3C x 1.0mm^2 3C x 1.5mm^2 3C x 2.0mm^2 3C x 2.5mm^2	KC
	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75mm^2 3C x 1.0mm^2 3C x 1.5mm^2 3C x 2.0mm^2 3C x 2.5mm^2	KC
Potting Compound	DOW Coming Corp.	SYLGARD 160	Gray, rated 105 ℃	UL
	Shin Etsu Silicone	KET-132A/B	Natural, rated 105 ℃	
	DOW CORNING (SHANGHAI) CO LTD	CN8760 CN8760G	Black, rated 150 ℃	UL

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D	Min. V-1, Min. 130 ℃	UL
	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		UL
	HONG SHIEN ENTERPRISE CO LTD	03V-0		UL
	HONG WEI ENTERPRISES CO LTD	79		UL
	HSU TZU ELECTRONIC CO LTD	4V0		UL
	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		UL
	HSIANG KUO INDUSTRIAL CO LTD	76V0A		UL
Mylar Sheet	-	-	Min.V-2, min.0.2 ㎜	UL

☐ 유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

   As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiful listing or changing the items above, the certification revision shall be applied.

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품안전관리법 제8조제1항의 규정에 의한 안전인증취소 사유가 됨을 유의하시기 바랍니다.

   The Safety Certification will be cancelled under the Safety Control Law for Electrical Appliances, Paragraph 1 of Article 8 if the contents of the Certification is altered without our authorization.

FP511-10-00

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-12A	I/P: 1.8A : O/P: +12Vdc/13A (top cover with two holes, blocked with plastic cap)
HLG-185-12A	
HLG-185H-12B	I/P:1.8A : O/P: +12Vdc/13A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-12B	
HLG-185H-12	I/P: 1.8A : O/P: +12Vdc/13A
HLG-185-12	
HLG-185H-15A	I/P : 2.1A, O/P: +15Vdc/11.5A (top cover with two holes, blocked with plastic cap)
HLG-185-15A	
HLG-185H-15B	I/P : 2.1A, O/P: +15Vdc/11.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-15B	
HLG-185H-15	I/P : 2.1A, O/P: +15Vdc/11.5A
HLG-185-15	
HLG-185H-20A	I/P : 2.1A, O/P: +20Vdc/9.3A (top cover with two holes, blocked with plastic cap)
HLG-185-20A	
HLG-185H-20B	I/P : 2.1A, O/P: +20Vdc/9.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-20B	
HLG-185H-20	I/P : 2.1A, O/P: +20Vdc/9.3A
HLG-185-20	
HLG-185H-24A	I/P : 2.1A, O/P: +24Vdc/7.8A (O top cover with two holes, blocked with plastic cap)
HLG-185-24A	
HLG-185H-24B	I/P : 2.1A, O/P: +24Vdc/7.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-24B	
HLG-185H-24	I/P : 2.1A, O/P: +24Vdc/7.8A
HLG-185-24	
HLG-185H-30A	I/P : 2.1A, O/P: +30Vdc/6.2A (top cover with two holes, blocked with plastic cap)
HLG-185-30A	
HLG-185H-30B	I/P : 2.1A, O/P: +30Vdc/6.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-30B	
HLG-185H-30	I/P : 2.1A, O/P: +30Vdc/6.2A
HLG-185-30	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-36A	I/P : 2.1A, O/P: +36Vdc/5.2A (top cover with two holes, blocked with plastic cap)
HLG-185-36A	
HLG-185H-36B	I/P : 2.1A, O/P: +36Vdc/5.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-36B	
HLG-185H-36	I/P : 2.1A, O/P: +36Vdc/5.2A
HLG-185-36	
HLG-185H-42A	I/P : 2.1A, O/P: +42Vdc/4.4A (top cover with two holes, blocked with plastic cap)
HLG-185-42A	
HLG-185H-42B	I/P : 2.1A, O/P: +42Vdc/4.4A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-42B	
HLG-185H-42	I/P : 2.1A, O/P: +42Vdc/4.4A
HLG-185-42	
HLG-185H-48A	I/P : 2.1A, O/P: +48Vdc/3.9A (top cover with two holes, blocked with plastic cap)
HLG-185-48A	
HLG-185H-48B	I/P : 2.1A, O/P: +48Vdc/3.9A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-48B	
HLG-185H-48	I/P : 2.1A, O/P: +48Vdc/3.9A
HLG-185-48	
HLG-185H-54A	I/P : 2.1A, O/P: +54Vdc/3.45A (top cover with two holes, blocked with plastic cap)
HLG-185-54A	
HLG-185H-54B	I/P : 2.1A, O/P: +54Vdc/3.45A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-54B	
HLG-185H-54	Model name
HLG-150H-12A	I/P: 1.7A, O/P: +12Vdc/12.5A (top cover with two holes, blocked with plastic cap)
HLG-150-12A	
HLG-150H-12B	I/P: 1.7A, O/P: +12Vdc/12.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-12B	
HLG-150H-12	I/P: 1.7A, O/P: +12Vdc/12.5A
HLG-150-12	
HLG-150H-15A	I/P: 1.7A, O/P: +15Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-150-15A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-15B	I/P: 1.7A, O/P: +15Vdc/10A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-15B	
HLG-150H-15	I/P: 1.7A, O/P: +15Vdc/10A
HLG-150-15	
HLG-150H-20A	I/P: 1.7A, O/P: +20Vdc/7.5A (cover with two holes, blocked with plastic cap)
HLG-150-20A	
HLG-150H-20B	I/P:1.7A, O/P: +20Vdc/7.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-20B	
HLG-150H-20	I/P: 1.7A, O/P: +20Vdc/7.5A
HLG-150-20	
HLG-150H-24A	I/P: 1.7A, O/P: +24Vdc/6.3A (top cover with two holes, blocked with plastic cap)
HLG-150-24A	
HLG-150H-24B	I/P: 1.7A, O/P: +24Vdc/6.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-24B	
HLG-150H-24	I/P: 1.7A, O/P: +24Vdc/6.3A
HLG-150-24	
HLG-150H-30A	I/P: 1.7A, O/P: +30Vdc/5A (top cover with two holes, blocked with plastic cap)
HLG-150-30A	
HLG-150H-30B	I/P: 1.7A, O/P: +30Vdc/5A (IO/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-30B	
HLG-150H-30	I/P: 1.7A, O/P: +30Vdc/5A
HLG-150-30	
HLG-150H-36A	I/P: 1.7A, O/P: +36Vdc/4.2A (cover with two holes, blocked with plastic cap)
HLG-150-36A	
HLG-150H-36B	I/P:1.7A, O/P: +36Vdc/4.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-36B	
HLG-150H-36	I/P: 1.7A, O/P: +36Vdc/4.2A
HLG-150-36	
HLG-150H-42A	I/P: 1.7A, O/P: +42Vdc/3.6A (cover with two holes, blocked with plastic cap)
HLG-150-42A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-42B	I/P:1.7A, O/P: +42Vdc/3.6A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-42B	
HLG-150H-42	I/P: 1.7A, O/P: +42Vdc/3.6A
HLG-150-42	
HLG-150H-48A	I/P: 1.7A, O/P: +48Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-150-48A	
HLG-150H-48B	I/P:1.7A, O/P: +48Vdc/3.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-48B	
HLG-150H-48	I/P:1.7A, O/P: +48Vdc/3.2A
HLG-150-48	
HLG-150H-54A	I/P: 1.7A, O/P: +54Vdc/2.8A (top cover with two holes, blocked with plastic cap)
HLG-150-54A	
HLG-150H-54B	I/P:1.7A, O/P: +54Vdc/2.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-54B	
HLG-150H-54	I/P: 1.7A, O/P: +54Vdc/2.8A
HLG-150-54	
HLG-120H-12A	I/P: 1.4A, O/P: +12Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-120-12A	
HLG-120H-12B	I/P:1.4A, O/P: +12Vdc/10A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-12B	
HLG-120H-12	I/P: 1.4A, O/P: +12Vdc/10A
HLG-120-12	
HLG-120H-15A	I/P: 1.4A, O/P: +15Vdc/8.0A (top cover with two holes, blocked with plastic cap)
HLG-120-15A	
HLG-120H-15B	I/P:1.4A, O/P: +15Vdc/8.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-15B	
HLG-120H-15	I/P: 1.4A, O/P: +15Vdc/8.0A
HLG-120-15	
HLG-120H-20A	I/P: 1.4A, O/P: +20Vdc/6.0A (top cover with two holes, blocked with plastic cap)
HLG-120-20A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-20B	I/P: 1.4A, O/P: +20Vdc/6.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-20B	
HLG-120H-20	I/P: 1.4A, O/P: +20Vdc/6.0A
HLG-120-20	
HLG-120H-24A	I/P: 1.4A, O/P: +24Vdc/5.0A (top cover with two holes, blocked with plastic cap)
HLG-120-24A	
HLG-120H-24B	I/P:1.4A, O/P: +24Vdc/5.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-24B	
HLG-120H-24	I/P: 1.4A, O/P: +24Vdc/5.0A
HLG-120-24	
HLG-120H-30A	I/P: 1.4A, O/P: +30Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-120-30A	
HLG-120H-30B	I/P: 1.4A, O/P: +30Vdc/4.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-30B	
HLG-120H-30	I/P: 1.4A, O/P: +30Vdc/4.0A
HLG-120-30	
HLG-120H-36A	I/P: 1.4A, O/P: +36Vdc/3.4A (top cover with two holes, blocked with plastic cap)
HLG-120-36A	
HLG-120H-36B	I/P: 1.4A, O/P: +36Vdc/3.4A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-36B	
HLG-120H-36	I/P: 1.4A, O/P: +36Vdc/3.4A
HLG-120-36	
HLG-120H-42A	I/P: 1.4A, O/P: +42Vdc/2.9A (top cover with two holes, blocked with plastic cap)
HLG-120-42A	
HLG-120H-42B	I/P: 1.4A, O/P: +42Vdc/2.9A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-42B	
HLG-120H-42	I/P: 1.4A, O/P: +42Vdc/2.9A
HLG-120-42	
HLG-120H-48A	I/P:1.4A, O/P: +48Vdc/2.5A (top cover with two holes, blocked with plastic cap)
HLG-120-48A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-48B	I/P: 1.4A, O/P: +48Vdc/2.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-48B	
HLG-120H-48	I/P: 1.4A, O/P: +48Vdc/2.5A
HLG-120-48	
HLG-120H-54A	I/P: 1.4A, O/P: +54Vdc/2.3A (top cover with two holes, blocked with plastic cap)
HLG-120-54A	
HLG-120H-54B	I/P: 1.4A, O/P: +54Vdc/2.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-54B	
HLG-120H-54	I/P: 1.4A, O/P: +54Vdc/2.3A
HLG-120-54	
HLG-100H-20A	I/P: 1.2A, O/P: +20Vdc/4.8A (top cover with two holes, blocked with plastic cap)
HLG-100-20A	
HLG-100H-20B	I/P: 1.2A, O/P: +20Vdc/4.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-20B	
HLG-100H-20	I/P: 1.2A, O/P: +20Vdc/4.8A
HLG-100-20	
HLG-100H-24A	I/P: 1.2A, O/P: +24Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-100-24A	
HLG-100H-24B	I/P: 1.2A, O/P: +24Vdc/4.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-24B	
HLG-100H-24	I/P: 1.2A, O/P: +24Vdc/4.0A
HLG-100-24	
HLG-100H-30A	I/P: 1.2A, O/P: +30Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-100-30A	
HLG-100H-30B	I/P:1.2A, O/P: +30Vdc/3.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-30B	
HLG-100H-30	I/P: 1.2A, O/P: +30Vdc/3.2A
HLG-100-30	
HLG-100H-36A	I/P: 1.2A, O/P: +36Vdc/2.65A (top cover with two holes, blocked with plastic cap)
HLG-100-36A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-100H-36B	I/P: 1.2A, O/P: +36Vdc/2.65A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-36B	
HLG-100H-36	I/P: 1.2A, O/P: +36Vdc/2.65A
HLG-100-36	
HLG-100H-42A	I/P: 1.2A, O/P: +42Vdc/2.28A (top cover with two holes, blocked with plastic cap)
HLG-100-42A	
HLG-100H-42B	I/P: 1.2A, O/P: +42Vdc/2.28A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-42B	
HLG-100H-42	I/P: 1.2A, O/P: +42Vdc/2.28A
HLG-100-42	
HLG-100H-48A	I/P: 1.2A, O/P: +48Vdc/2.0A (top cover with two holes, blocked with plastic cap)
HLG-100-48A	
HLG-100H-48B	I/P: 1.2A, O/P: +48Vdc/2.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-48B	
HLG-100H-48	I/P: 1.2A, O/P: +48Vdc/2.0A
HLG-100-48	
HLG-100H-54A	I/P: 1.2A, O/P: +54Vdc/1.77A (top cover with two holes, blocked with plastic cap)
HLG-100-54A	
HLG-100H-54B	I/P: 1.2A, O/P: +54Vdc/1.77A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-54B	
HLG-100H-54	I/P: 1.2A, O/P: +54Vdc/1.77A
HLG-100-54	
HLG-120-48A-110W	O/P : 110 W, 45.3 V, 2.24 A
HLG-150-54A-130W	O/P : 130W, 54.1 V, 2.34 A

제품특기사항 및 시험조건 Remarks & Test conditions
1. Test Report Ref. No. : 11-1920-3066 (2011.08.04.) 2. Product Description - DC or AC supplied electronic controlgear for LEDs - Rating - PRI : AC100-240 V 50/60 Hz 200 W SEC : 54 Vd.c. 3.45 A - PF : > 0.9 - Type of protection : IP 67 - tc : 90 ℃, ta : 60 ℃ - Protection class : Class I - This product is totally enclosed electronic controlgear. - Constant voltage type, Independent SELV equivalent
□ 본 제품의 시험내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 디지털산업본부 전기전자기술센터 이용노 / 02-8601-423 □ *If you have any question on product testing, please contact the person below :* *Job holder : Digital Industry Division Electrics & Electronics Technology Center, Y.R. Lee/+82 2 8601-423*

FP511-09-00

□ 첨부 3 : 전기용품안전인증의 변경 현황
Status of Certificate Revisions

변경발급 내용 Contents of Certificate Revisions
1st Rev.) Critical component is changed. (11-1920-5308 : 2011.10.10.) - Chang of Manufacturer Component | Before | After X-capacitor(C1, C2) | Ar otronics | KEMET(Arcotronics) 2nd Rev.) Addition of derivative models.(11-1920-0294 : 2012.02.20.) - "HLG-120-48A-110W", "HLG-150-54A-130W" 3rd Rev.) Addition of factory (16-015152-11 : 2016.03.24.) - Factory name : Mean Well (Guangzhou) Electronics Co., Ltd. Address : 2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

FP511-11-00

접 수 번 호 (Receipt No.) : 11-1920-5308

전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호 (Certificate No.)	: SZ11007-11005A
제조업자명 (Factory)	: Mean Well Enterprises Co., Ltd.
대표자명 (President)	: Mr. Jerry Lin
제조공장의 소재지 (Factory Address)	: No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
제품명 (Product)	: 조명기구용 컨버터(LED램프용) (Independent Controlgear)
기본모델명 (Basic Model)	: HLG-185-54
정격 (Rating)	: AC100~240V, 50/60Hz, 2.0-0.85A, 200W (Output : DC54V, 3.45A)
파생모델명 (Series Model)	: See the attachment 2
적용기준 (Standard)	: K61347-1(2010-08), K61347-2-13(2010-12), K62384(2010-08), K00015(2009-12), K61547(2009-12)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.

We Issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Law Enforcement Regulation.

2011년 10월 24일
year month day

ktl 한국산업기술시험원장
KOREA TESTING LABORATORY

※ 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

첨 부 (Annex) :
1. 안전관리부품 및 재질목록 (List of Critical Components)
2. 기본모델·파생모델의 내용 (General Descriptions of Certified Products)
3. 전기용품안전인증의 변경 현황 (Status of Certificate Revisions)

안전인증시의 조건 : 동 제품의 생산 시 자체검사를 실시하고 안전인증 시 등록된 부품누락 및 임의 변경하지 말 것.
(Terms of the Safety Certification :Factories have to conduct the 'Self Product Verification' and it is prohibited to omit and modify the components registered on the Safety Certificate when producing the certified products.)

□ 첨부 1 : 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST-series	T3.15 A 250 Vac	VDE
	Conquer	MST-series	T4 A 250 Vac	VDE
Y-capacitor (C3, C4)	Walsin	AC	1000 pF 250 Vac 125 ℃	VDE
	Walsin	AH		
	TDK	CD		
	TDK	CS		
	Murata	KX		KC
	Murata	KH		KC
Varistor (ZNR2)	Thinking	TVR10361-D	230 Vac, 300Vdc	UL
	Centra Science	CNR14D361K		
	Joyin	14S361K, 14N361K		
	Nippon Chemicon	TVR14V361K		
Varistor (ZNR1)	Thinking	TVR14511-D	320Vac, 410Vdc	UL
	Centra Science	CNR14D511K		
	Joyin	14S511K, 14N511K		
	Nippon Chemicon	TNR14V511K		
X-capacitor (C1, C2) (C1=0.33 μF, C2=0.22 μF for HLG-100X-YZ, HLG-120X-YZ, C1=C2=0.47 μF for HLG-150X-YZ, HLG-185X-YZ X=H or blank Y=12,15,20,24,30, 36,42,48,54 Z=A, B or blank)	KEMET(Arcotronics)	R.46	300 Vac, 110 ℃	ENEC
	KEMET(Arcotronics)	R.49	310 Vac, 110 ℃	ENEC
	ISKRA	KNB 1530	300 Vac, 100 ℃	VDE
	ISKRA	KNB 1560	300 Vac, 125 ℃	VDE
	Epcos	B3292#...	305 Vac, 105 ℃	VDE
	Liow Gu	GS-L	275 Vac, 100 ℃	VDE
	Pilkor	PCX2 335M	275 Vac, 105 ℃	ENEC
	Pilkor	PCX2 337	275 Vac, 100 ℃	VDE
	Ultra	HQX	275 Vac, 100 ℃	VDE
	Vishay BC Components	339	275 Vac, 105 ℃	ENEC
	Cheng Tung	CTX	300 Vac, 100 ℃	VDE
	Shiny Space	SX1	300 Vac, 100 ℃	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Photo Coupler (U3, U4)	Cosmo	K1010	dti.=0.7 ㎜ int. dcr=5.2 ㎜ ext. dcr=8 ㎜ thermal cycling test. 115 ℃	VDE/UL
	Lite-On	LTV-817	dti.=0.8 ㎜ int. dcr=5.2 ㎜ ext. dcr=7.8 ㎜, 100 ℃	VDE/UL
	Sharp	PC123	dti.=0.7 ㎜ int. dcr=5 ㎜ ext. dcr=8 ㎜ thermal cycling test. 110 ℃	VDE/UL
Bridging capacitor (C31)	Walsin	AH	1000 ㎊, 250 Vac, Y1	VDE
	TDK	CD	1000 ㎊, 250 Vac, Y1	VDE
	Murata	KX	1000 ㎊, 250 Vac, Y1	KC
Choke (LF2)	Mean Well	TR-953	130 ℃	-
Choke (LF3)	Mean Well	TR-948	130 ℃	-
Choke (L1)	Mean Well	TR-954	130 ℃	-
PFC Choke (L2) (For HLG-WX-YZ, W=100, 120 X=H or blank Y=12,15,20,24,30, 36,42,48,54 Z=A, B or blank)	Mean Well	TF-2072	130 ℃	-
PFC Choke (L2) (For HLG-WX-YZ, W=150, 185 X=H or blank Y=15,20,24,30,36, 42,48,54 Z=A, B or blank)	Mean Well	TF-2071	130 ℃	-
PFC Choke (L2) (For HLG-WX-12Z W=150, 185 X=H or blank Z=A, B or blank)	Mean Well	TF-1991	130 ℃	-
Transformer (T1) (For HLG-120-12Z Z=A, B or blank)	Yu Jing	TF-2053	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-120-15Z Z=A, B or blank)	Yu Jing	TF-2054	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-20Z, HLG-120-20Z Z=A, B or blank)	Yu Jing	TF-2055	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-24Z, HLG-120-24Z Z=A, B or blank)	Yu Jing	TF-2056	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-30Z, HLG-120-30Z Z=A, B or blank)	Yu Jing	TF-2057	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-36Z, HLG-120-36Z Z=A, B or blank)	Yu Jing	TF-2058	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-42Z, HLG-120-42Z Z=A, B or blank)	Yu Jing	TF-2059	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-48Z, HLG-120-48Z Z=A, B or blank)	Yu Jing	TF-2060	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100-54Z, HLG-120-54Z Z=A, B or blank)	Yu Jing	TF-2061	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-120H-12Z Z=A, B or blank)	Yu Jing	TF-2073	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-120H-15Z Z=A, B or blank)	Yu Jing	TF-2074	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-100H-20Z, HLG-120H-20Z Z=A, B or blank)	Yu Jing	TF-2075	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-24Z, HLG-120H-24Z Z=A, B or blank)	Yu Jing	TF-2076	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-30Z, HLG-120H-30Z Z=A, B or blank)	Yu Jing	TF-2077	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-36Z, HLG-120H-36Z Z=A, B or blank)	Yu Jing	TF-2078	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-42Z, HLG-120H-42Z Z=A, B or blank)	Yu Jing	TF-2079	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-48Z, HLG-120H-48Z Z=A, B or blank)	Yu Jing	TF-2080	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-100H-54Z, HLG-120H-54Z Z=A, B or blank)	Yu Jing	TF-2081	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-12Z, HLG-185-12Z Z=A, B or blank)	Yu Jing	TF-2016	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-15Z, HLG-185-15Z Z=A, B or blank)	Yu Jing	TF-2017	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-20Z,	Yu Jing	TF-2018	Class B	-
	Elytone			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
HLG-185-20Z Z=A, B or blank)	Mean Well			
Transformer (T1) (For HLG-150-24Z, HLG-185-24Z Z=A, B or blank)	Yu Jing	TF-1999	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-30Z, HLG-185-30Z Z=A, B or blank)	Yu Jing	TF-2019	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-36Z, HLG-185-36Z Z=A, B or blank)	Yu Jing	TF-2020	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-42Z, HLG-185-42Z Z=A, B or blank)	Yu Jing	TF-2021	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-48Z, HLG-185-48Z, HLG-150H-54Z, HLG-185H-54Z Z=A, B or blank)	Yu Jing	TF-2022	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150-54Z, HLG-185-54Z Z=A, B or blank)	Yu Jing	TF-2023	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-12Z, HLG-185H-12Z Z=A, B or blank)	Yu Jing	TF-2062	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-15Z, HLG-185H-15Z Z=A, B or blank)	Yu Jing	TF-2063	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-20Z, HLG-185H-20Z Z=A, B or blank)	Yu Jing	TF-2064	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1) (For HLG-150H-24Z, HLG-185H-24Z Z=A, B or blank)	Yu Jing	TF-2065	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-30Z, HLG-185H-30Z Z=A, B or blank)	Yu Jing	TF-2066	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-36Z, HLG-185H-36Z Z=A, B or blank)	Yu Jing	TF-2067	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-42Z, HLG-185H-42Z Z=A, B or blank)	Yu Jing	TF-2068	Class B	-
	Elytone			
	Mean Well			
Transformer (T1) (For HLG-150H-48Z, HLG-185H-48Z Z=A, B or blank)	Yu Jing	TF-2069	Class B	-
	Elytone			
	Mean Well			

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75mm² 3C x 1mm²	KC
	Guangdong Riteng	60245 IEC 57 H05RN-F	3C x 0.75mm² 3C x 1mm² 3C x 1.5mm²	KC
	I-sheng	60227 IEC 53	3G x 0.75mm² 3G x 1.0mm² 3G x 1.5mm² 3G x 2.5mm²	KC
	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75mm²	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75mm² 3G x 1.0mm²	KC
	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75mm²	KC
		K60227 IEC 53 (H05VV-F)	3G x 0.75mm² 3G x 1.0mm²	KC
	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75mm²	KC
		K60227 IEC 53 H05VVH-F	3C x 0.75mm² 3C x 1.0mm² 3C x 1.5mm² 3C x 2.0mm² 3C x 2.5mm²	KC
	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75mm² 3C x 1.0mm² 3C x 1.5mm² 3C x 2.0mm² 3C x 2.5mm²	KC
Potting Compound	DOW Corning Corp.	SYLGARD 160	Gray, rated 105 ℃	UL
	Shin Etsu Silicone	KET-132A/B	Natural, rated 105 ℃	
	DOW CORNING (SHANGHAI) CO LTD	CN8760 CN8760G	Black, rated 150 ℃	UL

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D	Min. V-1, Min. 130 ℃	UL
	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		UL
	HONG SHIEN ENTERPRISE CO LTD	03V-0		UL
	HONG WEI ENTERPRISES CO LTD	79		UL
	HSU TZU ELECTRONIC CO LTD	4V0		UL
	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		UL
	HSIANG KUO INDUSTRIAL CO LTD	76V0A		UL
Mylar Sheet	-	-	Min.V-2, min.0.2 ㎜	UL

☐ 유의사항 (Attention) :

1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다.

   As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiful listing or changing the items above, the certification revision shall be applied.

2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품안전관리법 제8조제1항의 규정에 의한 안전인증취소 사유가 됨을 유의하시기 바랍니다.

   The Safety Certification will be cancelled under the Safety Control Law for Electrical Appliances, Paragraph 1 of Article 8 if the contents of the Certification is altered without our authorization.

FP511-10-00

□ 첨부 2 : 기본모델 · 파생모델의 내용
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-12A	I/P: 1.8A ; O/P: +12Vdc/13A (top cover with two holes, blocked with plastic cap)
HLG-185-12A	
HLG-185H-12B	I/P:1.8A ; O/P: +12Vdc/13A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-12B	
HLG-185H-12	I/P: 1.8A ; O/P: +12Vdc/13A
HLG-185-12	
HLG-185H-15A	I/P : 2.1A, O/P: +15Vdc/11.5A (top cover with two holes, blocked with plastic cap)
HLG-185-15A	
HLG-185H-15B	I/P : 2.1A, O/P: +15Vdc/11.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-15B	
HLG-185H-15	I/P : 2.1A, O/P: +15Vdc/11.5A
HLG-185-15	
HLG-185H-20A	I/P : 2.1A, O/P: +20Vdc/9.3A (top cover with two holes, blocked with plastic cap)
HLG-185-20A	
HLG-185H-20B	I/P : 2.1A, O/P: +20Vdc/9.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-20B	
HLG-185H-20	I/P : 2.1A, O/P: +20Vdc/9.3A
HLG-185-20	
HLG-185H-24A	I/P : 2.1A, O/P: +24Vdc/7.8A (O top cover with two holes, blocked with plastic cap)
HLG-185-24A	
HLG-185H-24B	I/P : 2.1A, O/P: +24Vdc/7.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-24B	
HLG-185H-24	I/P : 2.1A, O/P: +24Vdc/7.8A
HLG-185-24	
HLG-185H-30A	I/P : 2.1A, O/P: +30Vdc/6.2A (top cover with two holes, blocked with plastic cap)
HLG-185-30A	
HLG-185H-30B	I/P : 2.1A, O/P: +30Vdc/6.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-30B	
HLG-185H-30	I/P : 2.1A, O/P: +30Vdc/6.2A
HLG-185-30	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-185H-36A	I/P : 2.1A, O/P: +36Vdc/5.2A (top cover with two holes, blocked with plastic cap)
HLG-185-36A	
HLG-185H-36B	I/P : 2.1A, O/P: +36Vdc/5.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-36B	
HLG-185H-36	I/P : 2.1A, O/P: +36Vdc/5.2A
HLG-185-36	
HLG-185H-42A	I/P : 2.1A, O/P: +42Vdc/4.4A (top cover with two holes, blocked with plastic cap)
HLG-185-42A	
HLG-185H-42B	I/P : 2.1A, O/P: +42Vdc/4.4A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-42B	
HLG-185H-42	I/P : 2.1A, O/P: +42Vdc/4.4A
HLG-185-42	
HLG-185H-48A	I/P : 2.1A, O/P: +48Vdc/3.9A (top cover with two holes, blocked with plastic cap)
HLG-185-48A	
HLG-185H-48B	I/P : 2.1A, O/P: +48Vdc/3.9A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-48B	
HLG-185H-48	I/P : 2.1A, O/P: +48Vdc/3.9A
HLG-185-48	
HLG-185H-54A	I/P : 2.1A, O/P: +54Vdc/3.45A (top cover with two holes, blocked with plastic cap)
HLG-185-54A	
HLG-185H-54B	I/P : 2.1A, O/P: +54Vdc/3.45A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-185-54B	
HLG-185H-54	Model name
HLG-150H-12A	I/P: 1.7A, O/P: +12Vdc/12.5A (top cover with two holes, blocked with plastic cap)
HLG-150-12A	
HLG-150H-12B	I/P: 1.7A, O/P: +12Vdc/12.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-12B	
HLG-150H-12	I/P: 1.7A, O/P: +12Vdc/12.5A
HLG-150-12	
HLG-150H-15A	I/P: 1.7A, O/P: +15Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-150-15A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-15B	I/P: 1.7A, O/P: +15Vdc/10A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-15B	
HLG-150H-15	I/P: 1.7A, O/P: +15Vdc/10A
HLG-150-15	
HLG-150H-20A	I/P: 1.7A, O/P: +20Vdc/7.5A (cover with two holes, blocked with plastic cap)
HLG-150-20A	
HLG-150H-20B	I/P:1.7A, O/P: +20Vdc/7.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-20B	
HLG-150H-20	I/P: 1.7A, O/P: +20Vdc/7.5A
HLG-150-20	
HLG-150H-24A	I/P: 1.7A, O/P: +24Vdc/6.3A (top cover with two holes, blocked with plastic cap)
HLG-150-24A	
HLG-150H-24B	I/P: 1.7A, O/P: +24Vdc/6.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-24B	
HLG-150H-24	I/P: 1.7A, O/P: +24Vdc/6.3A
HLG-150-24	
HLG-150H-30A	I/P: 1.7A, O/P: +30Vdc/5A (top cover with two holes, blocked with plastic cap)
HLG-150-30A	
HLG-150H-30B	I/P: 1.7A, O/P: +30Vdc/5A (IO/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-30B	
HLG-150H-30	I/P: 1.7A, O/P: +30Vdc/5A
HLG-150-30	
HLG-150H-36A	I/P: 1.7A, O/P: +36Vdc/4.2A (cover with two holes, blocked with plastic cap)
HLG-150-36A	
HLG-150H-36B	I/P:1.7A, O/P: +36Vdc/4.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-36B	
HLG-150H-36	I/P: 1.7A, O/P: +36Vdc/4.2A
HLG-150-36	
HLG-150H-42A	I/P: 1.7A, O/P: +42Vdc/3.6A (cover with two holes, blocked with plastic cap)
HLG-150-42A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-150H-42B	I/P:1.7A, O/P: +42Vdc/3.6A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-42B	
HLG-150H-42	I/P: 1.7A, O/P: +42Vdc/3.6A
HLG-150-42	
HLG-150H-48A	I/P: 1.7A, O/P: +48Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-150-48A	
HLG-150H-48B	I/P:1.7A, O/P: +48Vdc/3.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-48B	
HLG-150H-48	I/P:1.7A, O/P: +48Vdc/3.2A
HLG-150-48	
HLG-150H-54A	I/P: 1.7A, O/P: +54Vdc/2.8A (top cover with two holes, blocked with plastic cap)
HLG-150-54A	
HLG-150H-54B	I/P:1.7A, O/P: +54Vdc/2.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-150-54B	
HLG-150H-54	I/P: 1.7A, O/P: +54Vdc/2.8A
HLG-150-54	
HLG-120H-12A	I/P: 1.4A, O/P: +12Vdc/10A (top cover with two holes, blocked with plastic cap)
HLG-120-12A	
HLG-120H-12B	I/P:1.4A, O/P: +12Vdc/10A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-12B	
HLG-120H-12	I/P: 1.4A, O/P: +12Vdc/10A
HLG-120-12	
HLG-120H-15A	I/P: 1.4A, O/P: +15Vdc/8.0A (top cover with two holes, blocked with plastic cap)
HLG-120-15A	
HLG-120H-15B	I/P:1.4A, O/P: +15Vdc/8.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-15B	
HLG-120H-15	I/P: 1.4A, O/P: +15Vdc/8.0A
HLG-120-15	
HLG-120H-20A	I/P: 1.4A, O/P: +20Vdc/6.0A (top cover with two holes, blocked with plastic cap)
HLG-120-20A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-20B	I/P: 1.4A, O/P: +20Vdc/6.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-20B	
HLG-120H-20	I/P: 1.4A, O/P: +20Vdc/6.0A
HLG-120-20	
HLG-120H-24A	I/P: 1.4A, O/P: +24Vdc/5.0A (top cover with two holes, blocked with plastic cap)
HLG-120-24A	
HLG-120H-24B	I/P:1.4A, O/P: +24Vdc/5.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-24B	
HLG-120H-24	I/P: 1.4A, O/P: +24Vdc/5.0A
HLG-120-24	
HLG-120H-30A	I/P: 1.4A, O/P: +30Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-120-30A	
HLG-120H-30B	I/P: 1.4A, O/P: +30Vdc/4.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-30B	
HLG-120H-30	I/P: 1.4A, O/P: +30Vdc/4.0A
HLG-120-30	
HLG-120H-36A	I/P: 1.4A, O/P: +36Vdc/3.4A (top cover with two holes, blocked with plastic cap)
HLG-120-36A	
HLG-120H-36B	I/P: 1.4A, O/P: +36Vdc/3.4A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-36B	
HLG-120H-36	I/P: 1.4A, O/P: +36Vdc/3.4A
HLG-120-36	
HLG-120H-42A	I/P: 1.4A, O/P: +42Vdc/2.9A (top cover with two holes, blocked with plastic cap)
HLG-120-42A	
HLG-120H-42B	I/P: 1.4A, O/P: +42Vdc/2.9A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-42B	
HLG-120H-42	I/P: 1.4A, O/P: +42Vdc/2.9A
HLG-120-42	
HLG-120H-48A	I/P:1.4A, O/P: +48Vdc/2.5A (top cover with two holes, blocked with plastic cap)
HLG-120-48A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-120H-48B	I/P: 1.4A, O/P: +48Vdc/2.5A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-48B	
HLG-120H-48	I/P: 1.4A, O/P: +48Vdc/2.5A
HLG-120-48	
HLG-120H-54A	I/P: 1.4A, O/P: +54Vdc/2.3A (top cover with two holes, blocked with plastic cap)
HLG-120-54A	
HLG-120H-54B	I/P: 1.4A, O/P: +54Vdc/2.3A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-120-54B	
HLG-120H-54	I/P: 1.4A, O/P: +54Vdc/2.3A
HLG-120-54	
HLG-100H-20A	I/P: 1.2A, O/P: +20Vdc/4.8A (top cover with two holes, blocked with plastic cap)
HLG-100-20A	
HLG-100H-20B	I/P: 1.2A, O/P: +20Vdc/4.8A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-20B	
HLG-100H-20	I/P: 1.2A, O/P: +20Vdc/4.8A
HLG-100-20	
HLG-100H-24A	I/P: 1.2A, O/P: +24Vdc/4.0A (top cover with two holes, blocked with plastic cap)
HLG-100-24A	
HLG-100H-24B	I/P: 1.2A, O/P: +24Vdc/4.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-24B	
HLG-100H-24	I/P: 1.2A, O/P: +24Vdc/4.0A
HLG-100-24	
HLG-100H-30A	I/P: 1.2A, O/P: +30Vdc/3.2A (top cover with two holes, blocked with plastic cap)
HLG-100-30A	
HLG-100H-30B	I/P:1.2A, O/P: +30Vdc/3.2A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-30B	
HLG-100H-30	I/P: 1.2A, O/P: +30Vdc/3.2A
HLG-100-30	
HLG-100H-36A	I/P: 1.2A, O/P: +36Vdc/2.65A (top cover with two holes, blocked with plastic cap)
HLG-100-36A	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-100H-36B	I/P: 1.2A, O/P: +36Vdc/2.65A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-36B	
HLG-100H-36	I/P: 1.2A, O/P: +36Vdc/2.65A
HLG-100-36	
HLG-100H-42A	I/P: 1.2A, O/P: +42Vdc/2.28A (top cover with two holes, blocked with plastic cap)
HLG-100-42A	
HLG-100H-42B	I/P: 1.2A, O/P: +42Vdc/2.28A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-42B	
HLG-100H-42	I/P: 1.2A, O/P: +42Vdc/2.28A
HLG-100-42	
HLG-100H-48A	I/P: 1.2A, O/P: +48Vdc/2.0A (top cover with two holes, blocked with plastic cap)
HLG-100-48A	
HLG-100H-48B	I/P: 1.2A, O/P: +48Vdc/2.0A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-48B	
HLG-100H-48	I/P: 1.2A, O/P: +48Vdc/2.0A
HLG-100-48	
HLG-100H-54A	I/P: 1.2A, O/P: +54Vdc/1.77A (top cover with two holes, blocked with plastic cap)
HLG-100-54A	
HLG-100H-54B	I/P: 1.2A, O/P: +54Vdc/1.77A (O/P wire with 14AWG*2C and 18AWG*2C)
HLG-100-54B	
HLG-100H-54	I/P: 1.2A, O/P: +54Vdc/1.77A
HLG-100-54	

제품특기사항 및 시험조건 Remarks & Test conditions
1. Test Report Ref. No. : 11-1920-3066 (2011.08.04.) 2. Product Description - DC or AC supplied electronic controlgear for LEDs - Rating - PRI : AC100-240 V 50/60 Hz 200 W SEC : 54 Vd.c. 3.45 A - PF : > 0.9 - Type of protection : IP 67 - tc : 90 ℃, ta : 60 ℃ - Protection class : Class I - This product is totally enclosed electronic controlgear. - Constant voltage type, independent SELV equivalent
□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 디지털산업본부 전기전자평가센터 이용노 / (02)860-1423 □ *If you have any question on product testing, please contact the person below :* *Job holder : Digital Industry Division Electric & Electronics Testing Center, Y.R. LEE /+82 2 8601-423*

FP511-09-00

□ **첨부 3 : 전기용품안전인증의 변경 현황**
Status of Certificate Revisions

변경발급 내용 Contents of Certificate Revisions
1st Rev.) Critical component is changed. (11-1920-5308 : 2011.10.10.) - Chang of Manufacturer

Component	Before	After
X-capacitor(C1, C2)	Arcotronics	KEMET(Arcotronics)

FP511-11-00