KC Conformity Mark · Korea

HLG-80H-12B

cloud light pendant · all sizes (12V)
cloud light mobile · small (12V)
cloud light mobile · medium + large (12V) (North America only)

molo design, ltd.

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Vancouver BC
Canada V5L 2G7

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molo

접 수 번 호 (Receipt No.) : 23-052619-01-1

안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 (Certificate No.)	:	SZ11007-11007E
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-80H-54A
파 생 모 델 명 (Series Model)	:	See the attachment 2
정격/안전기준상의 모델구분 (Rating)	:	AC100-240 V, 50/60 Hz, 100.8 W (Output: DC 54 V, 1.5 A)
시 험 기 준 (Standard)	:	KC61347-1(2022-02), KC61347-2-13(2022-02), 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.

2023 년 08 월 22 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. : SZ11007-11007E

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	250 V 3.15A	VDE
Alt.	Conquer	MST	300V 3.15A	UL
Alt.	Walter	2010-series	250 V 3.15A	VDE
Varistor(ZNR1)	Centra Science	CNR-14D471K, CNR-10D471K	300 Vac, 385 Vdc	VDE
Alt.	Centra Science	CNR-14D511K, CNR-10D511K	320 Vac, 410 Vdc	VDE
Alt.	Centra Science	CNR-14D561K, CNR-10D561K	350 Vac, 450 Vdc	VDE
Alt.	Joyin	10S471K, 14N471K 14S471K	300 Vac, 385 Vdc	VDE
Alt.	Joyin	10S511K, 14S511K, 10N511K, 14N511K	320 Vac, 410 Vdc	VDE
Alt.	Joyin	10S561K, 14S561K, 14N561K	350 Vac, 460 Vdc	VDE
Alt.	Thinking	TVR10471-D, TVR14471-D, TVR10471-V, TVR14471-V. TVR10471. TVR14471	300 Vac, 385 Vdc	VDE
Alt.	Thinking	TVR10471-M, TVR14471-M	300 Vac, 385 Vdc	VDE
Alt.	Thinking	TVR10511-D, TVR14511-D, TVR10511-V, TVR14511-V, TVR10511, TVR14511	320 Vac, 410 Vdc	VDE
Alt.	Thinking	TVR10511-M, TVR14511-M	320 Vac, 410 Vdc	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Thinking	TVR10561-D, TVR14561-D, TVR10561-V, TVR14561-V. TVR10561, TVR14561	350 Vac, 450 Vdc	VDE
Alt.	Thinking	TVR10561-M TVR14561-M	350 Vac, 450 Vdc	VDE
Y- Capacitors (C3, C4, C30)	Murata	KX, KH	Min. 250 Vac, Max. 1000 pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	Min. 250 Vac, Max. 1000 pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	Min. 250 Vac, Max. 1000 pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	Min. 250 Vac, Max. 1000 pF, Y1 or Y2	VDE
Y- Capacitors (C129)	Murata	KX, KH	Min. 250 Vac, Max. 10000 pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	Min. 250 Vac, Max. 10000 pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	Min. 250 Vac, Max. 10000 pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	Min. 250 Vac, Max. 10000 pF, Y1 or Y2	VDE
X-capacitor (C1)	KEMET(Arcotronics)	R.46	Min. 250 Vac, Max. 0.47uF, X1 or X2	ENEC
Alt.	Epcos	B3292#-...	Min. 250 Vac, Max. 0.47uF, X1 or X2	VDE
Alt.	Liow Gu	GS-L	Min. 250 Vac, Max. 0.47uF, X1 or X2	VDE
Alt.	Ultra	HQX	Min. 250 Vac, Max. 0.47uF, X1 or X2	VDE
Alt.	HUA JUNG	MKP	Min. 250 Vac, Max.0.47uF, X1 or X2	VDE
Alt.	Carli Electronics	MPX	Min. 250 Vac, Max.0.47uF, X1 or X2	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Joey	MPX	Min. 250 Vac, Max.0.47uF, X1 or X2	VDE
Bridging Capacitor (C31)	Murata	KX	Min. 250 Vac, Max. 2200 pF, Y1	VDE
Alt.	Walsin	AH,AS	Min. 250 Vac, Max. 2200 pF, Y1	VDE
Alt.	TDK	CD	Min. 250 Vac, Max. 2200 pF, Y1	VDE
Alt.	Welson	WD	Min. 250 Vac, Max. 2200 pF, Y1	VDE
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D	Min.V-1, 130°C	UL
Alt.	SHUNDE JUNDA ELECTRONIC CO LTD	JD-E		
Alt.	Tai He PCB Company Limited	THS		
Alt.	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T		
Alt.	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8		
Alt.	HONG SHIEN ENTERPRISE CO LTD	03V-0		
Alt.	HONG WEI ENTERPRISES CO LTD	79		
Alt.	HSU TZU ELECTRONIC CO LTD	4V0		
Alt.	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		
Photo Coupler (U2, U3)	Cosmo	K1010	dti=0.7mm, Int. dcr=5.2mm Ext. dcr=8mm, thermal cycling test, 115°C	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Lite-On	LTV-817 LTV-817M	dti=0.8mm, Int.dcr=5.2mm, Ext. dcr=7.8mm, 100°C	VDE
Alt.	Sharp	PC123	dti=0.7mm Int. dcr=5mm Ext. dcr=8mm, thermal cycling test, 110°C	VDE
Transformer(T1) (For HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2158	Class B	Tested with appliance
Alt.	Long Sail	TF-2158	Class B	Tested with appliance
Alt.	Jet Signal	TF-2158	Class B	Tested with appliance
Alt.	Elytone	TF-2158	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-15z) (Z=A, B, D or Blank)	Mean Well	TF-2159	Class B	Tested with appliance
Alt.	Long Sail	TF-2159	Class B	Tested with appliance
Alt.	Jet Signal	TF-2159	Class B	Tested with appliance
Alt.	Elytone	TF-2159	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-20z) (Z=A, B, D or Blank)	Mean Well	TF-2160	Class B	Tested with appliance
Alt.	Long Sail	TF-2160	Class B	Tested with appliance
Alt.	Jet Signal	TF-2160	Class B	Tested with appliance
Alt.	Elytone	TF-2160	Class B	Tested with appliance

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-80H-24z) (Z=A, B, D or Blank)	Mean Well	TF-2161	Class B	Tested with appliance
Alt.	Long Sail	TF-2161	Class B	Tested with appliance
Alt.	Jet Signal	TF-2161	Class B	Tested with appliance
Alt.	Elytone	TF-2161	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-30z) (Z=A, B, D or Blank)	Mean Well	TF-2162	Class B	Tested with appliance
Alt.	Long Sail	TF-2162	Class B	Tested with appliance
Alt.	Jet Signal	TF-2162	Class B	Tested with appliance
Alt.	Elytone	TF-2162	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-36z, HLG-80H-36A-60W) (Z=A, B, D or Blank)	Mean Well	TF-2163	Class B	Tested with appliance
Alt.	Long Sail	TF-2163	Class B	Tested with appliance
Alt.	Jet Signal	TF-2163	Class B	Tested with appliance
Alt.	Elytone	TF-2163	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-42z) (Z=A, B, D or Blank)	Mean Well	TF-2164	Class B	Tested with appliance
Alt.	Long Sail	TF-2164	Class B	Tested with appliance
Alt.	Jet Signal	TF-2164	Class B	Tested with appliance
Alt.	Elytone	TF-2164	Class B	Tested with appliance

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-80H-48z) (Z=A, B, D or Blank)	Mean Well	TF-2165	Class B	Tested with appliance
Alt.	Long Sail	TF-2165	Class B	Tested with appliance
Alt.	Jet Signal	TF-2165	Class B	Tested with appliance
Alt.	Elytone	TF-2165	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-54z) (Z=A, B, D or Blank)	Mean Well	TF-2166	Class B	Tested with appliance
Alt.	Long Sail	TF-2166	Class B	Tested with appliance
Alt.	Jet Signal	TF-2166	Class B	Tested with appliance
Alt.	Elytone	TF-2166	Class B	Tested with appliance
Line Filter (LF1)	Mean Well	TR-990	125°C	Tested with appliance
Line Filter (LF2)	Mean Well	TR-910B TR-910D	130°C	Tested with appliance
Choke(L1)	Mean Well	TR-995	130°C	Tested with appliance
PFC Choke (L3) (Except for HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2157	130°C	Tested with appliance
PFC Choke (L3) (For HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2308	130°C	Tested with appliance
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟	KC
Alt.	Dongguan Lucky United	245 IEC 51 H03RT-H	3C x 0.75 ㎟ 3C x 1 ㎟	KC
Alt.	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟ 3C x 1.5 ㎟	KC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	I-sheng	60227 IEC 53	3G x 0.75 ㎟ 3G x 1.0 ㎟ 3G x 1.5 ㎟ 3G x 2.5 ㎟	KC
Alt.	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC
Alt.	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.	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
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G 0.75 ㎟-1.0 ㎟	3G x 0.75 mm^2-1.0 mm^2	KC
Alt.	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
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G 1.0 ㎟-4 ㎟	3G x 1.0 mm^2-4.0 mm^2	KC

☐ 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-80H-12A	Identical except for output rating(DC 12V, 5A)
HLG-80H-12B	Identical except for output rating(DC 12V, 5A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-12D	Identical except for output rating(DC 12V, 5A) and top cover no holes provided
HLG-80H-12	Identical except for output rating(DC 12V, 5A) and top cover no holes provided
HLG-80H-15A	Identical except for output rating(DC 15V, 5A)
HLG-80H-15B	Identical except for output rating(DC 15V, 5A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-15D	Identical except for output rating(DC 15V, 5A) and top cover no holes provided
HLG-80H-15	Identical except for output rating(DC 15V, 5A) and top cover no holes provided
HLG-80H-20A	Identical except for output rating (DC 20V, 4A)
HLG-80H-20B	Identical except for output rating(DC 20V, 4A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-20D,	Identical except for output rating(DC 20V, 4A) and top cover no holes provided
HLG-80H-20	Identical except for output rating(DC 20V, 4A) and top cover no holes provided
HLG-80H-24A	Identical except for output rating(DC 24V, 3.4A)
HLG-80H-24B	Identical except for output rating(DC 24V, 3.4A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-24D	Identical except for output rating(DC 24V, 3.4A) and top cover no holes provided
HLG-80H-24	Identical except for output rating(DC 24V, 3.4A) and top cover no holes provided
HLG-80H-30A	Identical except for output rating(DC 30V, 2.7A)
HLG-80H-30B	Identical except for output rating(DC 30V, 2.7A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-30D	Identical except for output rating(DC 30V, 2.7A) and top cover no holes provided
HLG-80H-30	Identical except for output rating(DC 30V, 2.7A) and top cover no holes provided
HLG-80H-36A	Identical except for output rating(DC 36V, 2.3A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-80H-36A-60W	Identical except for output rating(DC 36V, 2.3A)
HLG-80H-36B	Identical except for output rating(DC 36V, 2.3A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-36D	Identical except for output rating(DC 36V, 2.3A) and top cover no holes provided
HLG-80H-36	Identical except for output rating(DC 36V, 2.3A) and top cover no holes provided
HLG-80H-42A	Identical except for output rating(DC 42V, 1.95A)
HLG-80H-42B	Identical except for output rating(DC 42V, 1.95A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-42D	Identical except for output rating(DC 42V, 1.95A), and top cover no holes provided
HLG-80H-42	Identical except for output rating(DC 42V, 1.95A), and top cover no holes provided
HLG-80H-48A	Identical except for output rating (DC 48V, 1.7A)
HLG-80H-48B	Identical except for output rating(DC 48V, 1.7A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-48D	Identical except for output rating(DC 48V, 1.7A) and top cover no holes provided
HLG-80H-48	Identical except for output rating(DC 48V, 1.7A) and top cover no holes provided
HLG-80H-54B	Identical except for output rating(DC 54V, 1.5A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-54D	Identical except for output rating(DC 54V, 1.5A) and top cover no holes provided
HLG-80H-54	Identical except for output rating(DC 54V, 1.5A) and top cover no holes provided

제품특기사항 및 시험조건 Remarks & Test conditions
1. Test Report Ref. No. : 11-1920-5549 (2011.11.01.) 2. Products Description - DC or AC supplied electronic controlgear for LED modules - 100-240 V~, 50/60 Hz, 100.8 W (Output:DC54 V, 1.5 A) - tc 80 ℃, ta 60 ℃ - Class of equipment : Class I - Constant voltage type - Independent SELV controlgear - Totally filled with potting within the enclosure * 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 / 02-860-1473 □ *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 2 860-1473*

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions

1st Rev.) Addition of factory (16-015152-12 : 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

2nd Rev.) Change Addition factory name, address and president (16-067872-17 : 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

3rd Rev.) Addition of components (17-051479-02-2 : 2017.08.30.)

- 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

4th Rev.) Change name, president and address of factory (21-082212-12-1 : 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

5th Rev.) Change of components and update of KC standards to KC61347-1(2022-02), KC61347-2-13(2022-02) (23-052619-01-1 : 2023.08.22.)

based on CB Certificate Ref. No.: DE 2-035035-M1(TÜV Rheinland IGA Products GmbH) and CB report No., CN22O3GU 002(TÜV Rheinland (Guangdong) Ltd.)

1. Delete "CNR14D301K","TVR10301-D","TVR10401-D","14N301K","10S301K","14S301K" from Varistor(ZNR1)
2. Delete"WKP","440L" from Y-Capacitors (C3,C4,C30)
3. Update rating of Y-Capacitors (C3,C4,C30): "Min." 250 Vac, "Max."1000pF, Y1 or Y2
4. Combine the list of Y- Capacitors (C129) for all models, and Delete"WKP","440L" from Y-Cap acitors (C129) for all models
5. Update rating of Y-Capacitors (C129): "Min." 250 Vac, "Max. 10000pF", Y1 or Y2
6. Delete "R.49", "KNB1530","KNB1560","PCX2 335","PCX2 335M","PCX2 337","CTX" from X-Capacitors (C1)
7. Update rating of X-Capacitors (C1) : Min. 250 Vac, Max.0.47uF, X1 or X2
8. Update rating of Bridging Capacitor (C31) : Min. 250 Vac, Max. 2200pF, X1 or X2
9. Delete "DGV0-3A" "76V0A" from the PCB
10. Delete "K60227 IEC 53 H05VV-F" from Power Cord
11. Update Differences between the basic and derivative model(s) for B type
12. Add below new components

Component (Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
Varistor(ZNR1)	Centra Science	CNR-14D471K, CNR-10D471K	300 Vac, 385 Vdc	VDE
Varistor(ZNR1)	Centra Science	CNR-14D511K, CNR-10D511K	320 Vac, 410 Vdc	VDE
Varistor(ZNR1)	Centra Science	CNR-14D561K, CNR-10D561K	350 Vac, 450 Vdc	VDE
Varistor(ZNR1)	Joyin	10S471K, 14N471K 14S471K	300 Vac, 385 Vdc	VDE
Varistor(ZNR1)	Joyin	10S511K, 14S511K, 10N511K, 14N511K	320 Vac, 410 Vdc	VDE
Varistor(ZNR1)	Joyin	10S561K,	350 Vac, 460 Vdc	VDE

변경발급 내용 Contents of Certificate Revisions				
		14S561K, 14N561K		
Varistor(ZNR1)	Thinking	TVR10471-D, TVR14471-D, TVR10471-V, TVR14471-V. TVR10471. TVR14471	300 Vac, 385 Vdc	VDE
Varistor(ZNR1)	Thinking	TVR10471-M, TVR14471-M	300 Vac, 385 Vdc	VDE
Varistor(ZNR1)	Thinking	TVR10511-D, TVR14511-D, TVR10511-V, TVR14511-V, TVR10511, TVR14511	320 Vac, 410 Vdc	VDE
Varistor(ZNR1)	Thinking	TVR10511-M, TVR14511-M	320 Vac, 410 Vdc	VDE
Varistor(ZNR1)	Thinking	TVR10561-D, TVR14561-D, TVR10561-V, TVR14561-V. TVR10561, TVR14561	350 Vac, 450 Vdc	VDE
Varistor(ZNR1)	Thinking	TVR10561-M TVR14561-M	350 Vac, 450 Vdc	VDE
X-capacitor (C1)	HUA JUNG	MKP	Min. 250 Vac, Max.0.47uF, X1 or X2	VDE
X-capacitor (C1)	Carli Electronics	MPX	Min. 250 Vac, Max.0.47uF, X1 or X2	VDE
X-capacitor (C1)	Joey	MPX	Min. 250 Vac, Max.0.47uF, X1 or X2	VDE
Bridging Capacitor (C31)	Walsin	AS	Min. 250 Vac, Max.2200 pF, Y1	VDE
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-E	Min.V-1, 130°C	UL
PCB	Tai He PCB Company Limited	THS	Min.V-1, 130°C	UL
PCB	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T	Min.V-1, 130°C	UL
PCB	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min.V-1, 130°C	UL

변경발급 내용 Contents of Certificate Revisions				
Photo Coupler(U2, U3)	Lite-On	LTV-817M	dti=0.8mm, Int.dcr=5.2mm, Ext. dcr=7.8mm, 100°C	VDE
Line Filter (LF2)	Mean Well	TR-910D	130°C	Tested with appliance

FP511-06

접 수 번 호
(Receipt No.) : 21-082212-12-1

안 전 인 증 서

Safety Certificate

안 전 인 증 번 호
(Certificate No.) : SZ11007-11007D

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-80H-54A

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

정격/안전기준상의 모델구분
(Rating) : AC 100-240 V, 50/60 Hz, 100.8 W (Output: DC 54 V, 1.5 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. : SZ11007-11007D

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	250 V 3.15A	VDE
Alt.	Conquer	MST	300V 3.15A	UL
Alt.	Walter	2010-series	250 V 3.15A	VDE
Varistor(ZNR1)	Centra Science	CNR14D301K	195 Vac, 250 Vdc	UL
Alt.	Joyin	14N301K, 10S301K, 14S301K	195 Vac, 250 Vdc	UL
Alt.	Thinking	TVR10301-D	195 Vac, 250 Vdc	UL
Alt.	Thinking	TVR14301-D	195 Vac, 250 Vdc	UL
Y- Capacitors (C3, C4, C30)	Murata	KX, KH	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 1000pF, Y1 or Y2	ENEC
Y- Capacitors (C129) For HLG-80H-12z, HLG-80H-42z, HLG-80H-48z, HLG-80H-54z (z= A,B,D,or blank)	Murata	KX, KH	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 330pF, Y1 or Y2	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Welson	WD,KL	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 330pF, Y1 or Y2	ENEC
Y- Capacitors (C129) Except for for HLG-80H-12z, HLG-80H-42z, HLG-80H-48z, HLG-80H-54z (z=A,B,D,or blank)	Murata	KX, KH	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 470pF, Y1 or Y2	ENEC
X-capacitor (C1)	KEMET(Arcotronics)	R.46	300 Vac, 0.1uF, X1 or X2	ENEC
Alt.		R.49	310 Vac, 0.1uF, X1 or X2	ENEC
Alt.	Epcos	B3292#-...	305 Vac, 0.1uF, X1 or X2	VDE
Alt.	ISKRA	KNB 1530	300 Vac, 0.1uF, X1 or X2	VDE
Alt.		KNB 1560	300 Vac, 0.1uF, X1 or X2	VDE
Alt.	Liow Gu	GS-L	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Pilkor	PCX2 335	275 Vac, 0.1uF, X1 or X2	VDE
Alt.		PCX2 335M	275 Vac, 0.1uF, X1 or X2	ENEC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.		PCX2 337	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Ultra	HQX	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Cheng Tung	CTX	300 Vac, 0.1uF, X1 or X2	VDE
Bridging Capacitor (C31)	Murata	KX	250 Vac, 2200 pF, Y1	VDE
Alt.	Walsin	AH	250 Vac, 2200 pF, Y1	VDE
Alt.	TDK	CD	250 Vac, 2200 pF, Y1	VDE
Alt.	Welson	WD	250 Vac, 2200 pF, Y1	VDE
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D	Min.V-1, 130°C	UL
Alt.	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		
Alt.	HONG SHIEN ENTERPRISE CO LTD	03V-0		
Alt.	HONG WEI ENTERPRISES CO LTD	79		
Alt.	HSU TZU ELECTRONIC CO LTD	4V0		
Alt.	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		
Alt.	HSIANG KUO INDUSTRIAL CO LTD	76V0A		
Photo Coupler (U2, U3)	Cosmo	K1010	dti=0.7mm, Int. dcr=5.2mm Ext. dcr=8mm, thermal cycling test, 115°C	VDE
Alt.	Lite-On	LTV-817	dti=0.8mm, Int.dcr=5.2mm, Ext. dcr=7.8mm, 100°C	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Sharp	PC123	dti=0.7mm Int. dcr=5mm Ext. dcr=8mm, thermal cycling test, 110°C	VDE
Transformer(T1) (For HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2158	Class B	Tested with appliance
Alt.	Long Sail	TF-2158	Class B	Tested with appliance
Alt.	Jet Signal	TF-2158	Class B	Tested with appliance
Alt.	Elytone	TF-2158	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-15z) (Z=A, B, D or Blank)	Mean Well	TF-2159	Class B	Tested with appliance
Alt.	Long Sail	TF-2159	Class B	Tested with appliance
Alt.	Jet Signal	TF-2159	Class B	Tested with appliance
Alt.	Elytone	TF-2159	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-20z) (Z=A, B, D or Blank)	Mean Well	TF-2160	Class B	Tested with appliance
Alt.	Long Sail	TF-2160	Class B	Tested with appliance
Alt.	Jet Signal	TF-2160	Class B	Tested with appliance
Alt.	Elytone	TF-2160	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-24z) (Z=A, B, D or Blank)	Mean Well	TF-2161	Class B	Tested with appliance
Alt.	Long Sail	TF-2161	Class B	Tested with appliance
Alt.	Jet Signal	TF-2161	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Elytone	TF-2161	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-30z) (Z=A, B, D or Blank)	Mean Well	TF-2162	Class B	Tested with appliance
Alt.	Long Sail	TF-2162	Class B	Tested with appliance
Alt.	Jet Signal	TF-2162	Class B	Tested with appliance
Alt.	Elytone	TF-2162	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-36z, HLG-80H-36A-60W) (Z=A, B, D or Blank)	Mean Well	TF-2163	Class B	Tested with appliance
Alt.	Long Sail	TF-2163	Class B	Tested with appliance
Alt.	Jet Signal	TF-2163	Class B	Tested with appliance
Alt.	Elytone	TF-2163	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-42z) (Z=A, B, D or Blank)	Mean Well	TF-2164	Class B	Tested with appliance
Alt.	Long Sail	TF-2164	Class B	Tested with appliance
Alt.	Jet Signal	TF-2164	Class B	Tested with appliance
Alt.	Elytone	TF-2164	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-48z) (Z=A, B, D or Blank)	Mean Well	TF-2165	Class B	Tested with appliance
Alt.	Long Sail	TF-2165	Class B	Tested with appliance
Alt.	Jet Signal	TF-2165	Class B	Tested with appliance
Alt.	Elytone	TF-2165	Class B	Tested with appliance

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-80H-54z) (Z=A, B, D or Blank)	Mean Well	TF-2166	Class B	Tested with appliance
Alt.	Long Sail	TF-2166	Class B	Tested with appliance
Alt.	Jet Signal	TF-2166	Class B	Tested with appliance
Alt.	Elytone	TF-2166	Class B	Tested with appliance
Line Filter (LF1)	Mean Well	TR-990	125°C	Tested with appliance
Line Filter (LF2)	Mean Well	TR-910B	130°C	Tested with appliance
Choke(L1)	Mean Well	TR-995	130°C	Tested with appliance
PFC Choke (L3) (Except for HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2157	130°C	Tested with appliance
PFC Choke (L3) (For HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2308	130°C	Tested with appliance
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟	KC
Alt.	Dongguan Lucky United	245 IEC 51 H03RT-H	3C x 0.75 ㎟ 3C x 1 ㎟	KC
Alt.	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟ 3C x 1.5 ㎟	KC
Alt.	I-sheng	60227 IEC 53	3G x 0.75 ㎟ 3G x 1.0 ㎟ 3G x 1.5 ㎟ 3G x 2.5 ㎟	KC
Alt.	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC
Alt.	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		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
Alt.	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
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G 0.75 ㎟-1.0 ㎟	3G x 0.75 mm^2-1.0 mm^2	KC
Alt.	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
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G 1.0 ㎟-4 ㎟	3G x 1.0 mm^2-4.0 mm^2	KC

☐ 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-80H-12A	Identical except for output rating(DC 12V, 5A)
HLG-80H-12B	Identical except for output rating(DC 12V, 5A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-12D	Identical except for output rating(DC 12V, 5A) and top cover no holes provided
HLG-80H-12	Identical except for output rating(DC 12V, 5A) and top cover no holes provided
HLG-80H-15A	Identical except for output rating(DC 15V, 5A)
HLG-80H-15B	Identical except for output rating(DC 15V, 5A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-15D	Identical except for output rating(DC 15V, 5A) and top cover no holes provided
HLG-80H-15	Identical except for output rating(DC 15V, 5A) and top cover no holes provided
HLG-80H-20A	Identical except for output rating (DC 20V, 4A)
HLG-80H-20B	Identical except for output rating(DC 20V, 4A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-20D,	Identical except for output rating(DC 20V, 4A) and top cover no holes provided
HLG-80H-20	Identical except for output rating(DC 20V, 4A) and top cover no holes provided
HLG-80H-24A	Identical except for output rating(DC 24V, 3.4A)
HLG-80H-24B	Identical except for output rating(DC 24V, 3.4A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-24D	Identical except for output rating(DC 24V, 3.4A) and top cover no holes provided
HLG-80H-24	Identical except for output rating(DC 24V, 3.4A) and top cover no holes provided
HLG-80H-30A	Identical except for output rating(DC 30V, 2.7A)
HLG-80H-30B	Identical except for output rating(DC 30V, 2.7A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-30D	Identical except for output rating(DC 30V, 2.7A) and top cover no holes provided
HLG-80H-30	Identical except for output rating(DC 30V, 2.7A) and top cover no holes provided
HLG-80H-36A	Identical except for output rating(DC 36V, 2.3A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-80H-36A-60W	Identical except for output rating(DC 36V, 2.3A)
HLG-80H-36B	Identical except for output rating(DC 36V, 2.3A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-36D	Identical except for output rating(DC 36V, 2.3A) and top cover no holes provided
HLG-80H-36	Identical except for output rating(DC 36V, 2.3A) and top cover no holes provided
HLG-80H-42A	Identical except for output rating(DC 42V, 1.95A)
HLG-80H-42B	Identical except for output rating(DC 42V, 1.95A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-42D	Identical except for output rating(DC 42V, 1.95A), and top cover no holes provided
HLG-80H-42	Identical except for output rating(DC 42V, 1.95A), and top cover no holes provided
HLG-80H-48A	Identical except for output rating (DC 48V, 1.7A)
HLG-80H-48B	Identical except for output rating(DC 48V, 1.7A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-48D	Identical except for output rating(DC 48V, 1.7A) and top cover no holes provided
HLG-80H-48	Identical except for output rating(DC 48V, 1.7A) and top cover no holes provided
HLG-80H-54B	Identical except for output rating(DC 54V, 1.5A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-54D	Identical except for output rating(DC 54V, 1.5A) and top cover no holes provided
HLG-80H-54	Identical except for output rating(DC 54V, 1.5A) and top cover no holes provided

제품특기사항 및 시험조건
Remarks & Test conditions

1. Test Report Ref. No. : 11-1920-5549 (2011.11.01.)

2. Products Description

- DC or AC supplied electronic controlgear for LED modules
- 100-240 V~, 50/60 Hz, 100.8 W (Output:DC54 V, 1.5 A)
- tc 80 ℃, ta 60 ℃
- Class of equipment : Class I
- Constant voltage type
- Independent SELV controlgear
- Totally filled with potting within the enclosure

* factory information

- MEAN WELL (Guangzhou) Electronics Co.,Ltd.

  No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China

□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다.
시험 담당자 / 연락처 : 디지털산업본부 전기전자기술센터 남 상엽 / (02)860-1427
□ *If you have any question on product testing, please contact the person below :*
Job holder : S.M.A.R.T. Industry Division, Electrical and Electronic Technology Center, Sang-Yeop Nam/ +82 2 8601-1427

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용
Contents of Certificate Revisions

1st Rev.) Addition of factory (16-015152-12 : 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

2nd Rev.) Change Addition factory name, address and president (16-067872-17 : 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

3rd Rev.) Addition of components (17-051479-02-2 : 2017.08.30.)

- 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

4th Rev.) Change name, president and address of factory (21-082212-12-1 : 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.) : 17-051479-02-1

안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 (Certificate No.)	:	SZ11007-11007C
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-80H-54A
파 생 모 델 명 (Series Model)	:	See the attachment 2
정격/안전기준상의 모델구분 (Rating)	:	AC 100-240 V, 50/60 Hz, 100.8 W (Output: DC 54 V, 1.5 A)
시 험 기 준 (Standard)	:	KC 61347-1(2015-09), KC 61347-2-13(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 08 월 30 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. : SZ11007-11007C

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	250 V 3.15A	VDE
Alt.	Conquer	MST	300V 3.15A	UL
Alt.	Walter	2010-series	250 V 3.15A	VDE
Varistor(ZNR1)	Centra Science	CNR14D301K	195 Vac, 250 Vdc	UL
Alt.	Joyin	14N301K, 10S301K, 14S301K	195 Vac, 250 Vdc	UL
Alt.	Thinking	TVR10301-D	195 Vac, 250 Vdc	UL
Alt.	Thinking	TVR14301-D	195 Vac, 250 Vdc	UL
Y- Capacitors (C3, C4, C30)	Murata	KX, KH	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 1000pF, Y1 or Y2	ENEC
Y- Capacitors (C129) For HLG-80H-12z, HLG-80H-42z, HLG-80H-48z, HLG-80H-54z (z= A,B,D,or blank)	Murata	KX, KH	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 330pF, Y1 or Y2	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Welson	WD,KL	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 330pF, Y1 or Y2	ENEC
Y- Capacitors (C129) Except for for HLG-80H-12z, HLG-80H-42z, HLG-80H-48z, HLG-80H-54z (z=A,B,D,or blank)	Murata	KX, KH	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 470pF, Y1 or Y2	ENEC
X-capacitor (C1)	KEMET(Arcotronics)	R.46	300 Vac, 0.1uF, X1 or X2	ENEC
Alt.		R.49	310 Vac, 0.1uF, X1 or X2	ENEC
Alt.	Epcos	B3292#-...	305 Vac, 0.1uF, X1 or X2	VDE
Alt.	ISKRA	KNB 1530	300 Vac, 0.1uF, X1 or X2	VDE
Alt.		KNB 1560	300 Vac, 0.1uF, X1 or X2	VDE
Alt.	Liow Gu	GS-L	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Pilkor	PCX2 335	275 Vac, 0.1uF, X1 or X2	VDE
Alt.		PCX2 335M	275 Vac, 0.1uF, X1 or X2	ENEC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.		PCX2 337	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Ultra	HQX	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Cheng Tung	CTX	300 Vac, 0.1uF, X1 or X2	VDE
Bridging Capacitor (C31)	Murata	KX	250 Vac, 2200 pF, Y1	VDE
Alt.	Walsin	AH	250 Vac, 2200 pF, Y1	VDE
Alt.	TDK	CD	250 Vac, 2200 pF, Y1	VDE
Alt.	Welson	WD	250 Vac, 2200 pF, Y1	VDE
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D	Min.V-1, 130°C	UL
Alt.	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		
Alt.	HONG SHIEN ENTERPRISE CO LTD	03V-0		
Alt.	HONG WEI ENTERPRISES CO LTD	79		
Alt.	HSU TZU ELECTRONIC CO LTD	4V0		
Alt.	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		
Alt.	HSIANG KUO INDUSTRIAL CO LTD	76V0A		
Photo Coupler (U2, U3)	Cosmo	K1010	dti=0.7mm, Int. dcr=5.2mm Ext. dcr=8mm, thermal cycling test, 115°C	VDE
Alt.	Lite-On	LTV-817	dti=0.8mm, Int.dcr=5.2mm, Ext. dcr=7.8mm, 100°C	VDE

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Sharp	PC123	dti=0.7mm Int. dcr=5mm Ext. dcr=8mm, thermal cycling test, 110°C	VDE
Transformer(T1) (For HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2158	Class B	Tested with appliance
Alt.	Long Sail	TF-2158	Class B	Tested with appliance
Alt.	Jet Signal	TF-2158	Class B	Tested with appliance
Alt.	Elytone	TF-2158	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-15z) (Z=A, B, D or Blank)	Mean Well	TF-2159	Class B	Tested with appliance
Alt.	Long Sail	TF-2159	Class B	Tested with appliance
Alt.	Jet Signal	TF-2159	Class B	Tested with appliance
Alt.	Elytone	TF-2159	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-20z) (Z=A, B, D or Blank)	Mean Well	TF-2160	Class B	Tested with appliance
Alt.	Long Sail	TF-2160	Class B	Tested with appliance
Alt.	Jet Signal	TF-2160	Class B	Tested with appliance
Alt.	Elytone	TF-2160	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-24z) (Z=A, B, D or Blank)	Mean Well	TF-2161	Class B	Tested with appliance
Alt.	Long Sail	TF-2161	Class B	Tested with appliance
Alt.	Jet Signal	TF-2161	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Elytone	TF-2161	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-30z) (Z=A, B, D or Blank)	Mean Well	TF-2162	Class B	Tested with appliance
Alt.	Long Sail	TF-2162	Class B	Tested with appliance
Alt.	Jet Signal	TF-2162	Class B	Tested with appliance
Alt.	Elytone	TF-2162	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-36z, HLG-80H-36A-60W) (Z=A, B, D or Blank)	Mean Well	TF-2163	Class B	Tested with appliance
Alt.	Long Sail	TF-2163	Class B	Tested with appliance
Alt.	Jet Signal	TF-2163	Class B	Tested with appliance
Alt.	Elytone	TF-2163	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-42z) (Z=A, B, D or Blank)	Mean Well	TF-2164	Class B	Tested with appliance
Alt.	Long Sail	TF-2164	Class B	Tested with appliance
Alt.	Jet Signal	TF-2164	Class B	Tested with appliance
Alt.	Elytone	TF-2164	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-48z) (Z=A, B, D or Blank)	Mean Well	TF-2165	Class B	Tested with appliance
Alt.	Long Sail	TF-2165	Class B	Tested with appliance
Alt.	Jet Signal	TF-2165	Class B	Tested with appliance
Alt.	Elytone	TF-2165	Class B	Tested with appliance

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-80H-54z) (Z=A, B, D or Blank)	Mean Well	TF-2166	Class B	Tested with appliance
Alt.	Long Sail	TF-2166	Class B	Tested with appliance
Alt.	Jet Signal	TF-2166	Class B	Tested with appliance
Alt.	Elytone	TF-2166	Class B	Tested with appliance
Line Filter (LF1)	Mean Well	TR-990	125°C	Tested with appliance
Line Filter (LF2)	Mean Well	TR-910B	130°C	Tested with appliance
Choke(L1)	Mean Well	TR-995	130°C	Tested with appliance
PFC Choke (L3) (Except for HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2157	130°C	Tested with appliance
PFC Choke (L3) (For HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2308	130°C	Tested with appliance
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟	KC
Alt.	Dongguan Lucky United	245 IEC 51 H03RT-H	3C x 0.75 ㎟ 3C x 1 ㎟	KC
Alt.	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟ 3C x 1.5 ㎟	KC
Alt.	I-sheng	60227 IEC 53	3G x 0.75 ㎟ 3G x 1.0 ㎟ 3G x 1.5 ㎟ 3G x 2.5 ㎟	KC
Alt.	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC
Alt.	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		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
Alt.	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
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G 0.75 ㎟-1.0 ㎟	3G x 0.75 mm^2-1.0 mm^2	KC
Alt.	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
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G 1.0 ㎟-4 ㎟	3G x 1.0 mm^2-4.0 mm^2	KC

☐ 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-80H-12A	Identical except for output rating(DC 12V, 5A)
HLG-80H-12B	Identical except for output rating(DC 12V, 5A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-12D	Identical except for output rating(DC 12V, 5A) and top cover no holes provided
HLG-80H-12	Identical except for output rating(DC 12V, 5A) and top cover no holes provided
HLG-80H-15A	Identical except for output rating(DC 15V, 5A)
HLG-80H-15B	Identical except for output rating(DC 15V, 5A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-15D	Identical except for output rating(DC 15V, 5A) and top cover no holes provided
HLG-80H-15	Identical except for output rating(DC 15V, 5A) and top cover no holes provided
HLG-80H-20A	Identical except for output rating (DC 20V, 4A)
HLG-80H-20B	Identical except for output rating(DC 20V, 4A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-20D,	Identical except for output rating(DC 20V, 4A) and top cover no holes provided
HLG-80H-20	Identical except for output rating(DC 20V, 4A) and top cover no holes provided
HLG-80H-24A	Identical except for output rating(DC 24V, 3.4A)
HLG-80H-24B	Identical except for output rating(DC 24V, 3.4A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-24D	Identical except for output rating(DC 24V, 3.4A) and top cover no holes provided
HLG-80H-24	Identical except for output rating(DC 24V, 3.4A) and top cover no holes provided
HLG-80H-30A	Identical except for output rating(DC 30V, 2.7A)
HLG-80H-30B	Identical except for output rating(DC 30V, 2.7A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-30D	Identical except for output rating(DC 30V, 2.7A) and top cover no holes provided
HLG-80H-30	Identical except for output rating(DC 30V, 2.7A) and top cover no holes provided
HLG-80H-36A	Identical except for output rating(DC 36V, 2.3A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-80H-36A-60W	Identical except for output rating(DC 36V, 2.3A)
HLG-80H-36B	Identical except for output rating(DC 36V, 2.3A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-36D	Identical except for output rating(DC 36V, 2.3A) and top cover no holes provided
HLG-80H-36	Identical except for output rating(DC 36V, 2.3A) and top cover no holes provided
HLG-80H-42A	Identical except for output rating(DC 42V, 1.95A)
HLG-80H-42B	Identical except for output rating(DC 42V, 1.95A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-42D	Identical except for output rating(DC 42V, 1.95A), and top cover no holes provided
HLG-80H-42	Identical except for output rating(DC 42V, 1.95A), and top cover no holes provided
HLG-80H-48A	Identical except for output rating (DC 48V, 1.7A)
HLG-80H-48B	Identical except for output rating(DC 48V, 1.7A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-48D	Identical except for output rating(DC 48V, 1.7A) and top cover no holes provided
HLG-80H-48	Identical except for output rating(DC 48V, 1.7A) and top cover no holes provided
HLG-80H-54B	Identical except for output rating(DC 54V, 1.5A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-54D	Identical except for output rating(DC 54V, 1.5A) and top cover no holes provided
HLG-80H-54	Identical except for output rating(DC 54V, 1.5A) and top cover no holes provided

제품특기사항 및 시험조건
Remarks & Test conditions

1. Test Report Ref. No. : 11-1920-5549 (2011.11.01.)

2. Products Description

- DC or AC supplied electronic controlgear for LED modules
- 100-240 V~, 50/60 Hz, 100.8 W (Output:DC54 V, 1.5 A)
- tc 80 ℃, ta 60 ℃
- Class of equipment : Class I
- Constant voltage type
- Independent SELV controlgear
- Totally filled with potting within the enclosure

□ 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

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions
1st Rev.) Addition of factory (16-015152-12 : 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 2nd Rev.) Change Addition factory name, address and president (16-067872-17 : 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 3rd Rev.) Addition of components (17-051479-02-2 : 2017.08.30.) - 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

FP511-06

접 수 번 호 (Receipt No.) : 16-067872-17

전 기 용 품 안 전 인 증 서

Electrical Appliances Safety Certificate

안 전 인 증 번 호 (Certificate No.)	:	SZ11007-11007B
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(LED용) (Electronic controlgear)
기 본 모 델 명 (Basic Model)	:	HLG-80H-54A
정 격 (Rating)	:	AC100-240V 50/60Hz 100.8W
파 생 모 델 명 (Series Model)	:	See the attachment 2
적 용 기 준 (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.

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. : SZ11007-11007B

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	250 V 3.15A	VDE
Alt.	Conquer	MST	300V 3.15A	UL
Alt.	Walter	2010-series	250 V 3.15A	VDE
Varistor(ZNR1)	Centra Science	CNR14D301K	195 Vac, 250 Vdc	UL
Alt.	Joyin	14N301K, 10S301K, 14S301K	195 Vac, 250 Vdc	UL
Alt.	Thinking	TVR10301-D	195 Vac, 250 Vdc	UL
Alt.	Thinking	TVR14301-D	195 Vac, 250 Vdc	UL
Y- Capacitors (C3, C4, C30)	Murata	KX, KH	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 1000pF, Y1 or Y2	ENEC
Y- Capacitors (C129) For HLG-80H-12z, HLG-80H-42z, HLG-80H-48z, HLG-80H-54z (z= A,B,D,or blank)	Murata	KX, KH	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 330pF, Y1 or Y2	ENEC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Y- Capacitors (C129) Except for for HLG-80H-12z, HLG-80H-42z, HLG-80H-48z, HLG-80H-54z (z=A,B,D,or blank)	Murata	KX, KH	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 470pF, Y1 or Y2	ENEC
X-capacitor (C1)	KEMET(Arcotronics)	R.46	300 Vac, 0.1uF, X1 or X2	ENEC
Alt.		R.49	310 Vac, 0.1uF, X1 or X2	ENEC
Alt.	Epcos	B3292#-...	305 Vac, 0.1uF, X1 or X2	VDE
Alt.	ISKRA	KNB 1530	300 Vac, 0.1uF, X1 or X2	VDE
Alt.		KNB 1560	300 Vac, 0.1uF, X1 or X2	VDE
Alt.	Liow Gu	GS-L	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Pilkor	PCX2 335	275 Vac, 0.1uF, X1 or X2	VDE
Alt.		PCX2 335M	275 Vac, 0.1uF, X1 or X2	ENEC
Alt.		PCX2 337	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Ultra	HQX	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Cheng Tung	CTX	300 Vac, 0.1uF, X1 or X2	VDE
Bridging Capacitor (C31)	Murata	KX	250 Vac, 2200 pF, Y1	VDE
Alt.	Walsin	AH	250 Vac, 2200 pF, Y1	VDE
Alt.	TDK	CD	250 Vac, 2200 pF, Y1	VDE
Alt.	Welson	WD	250 Vac, 2200 pF, Y1	VDE

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, 130°C	UL
Alt.	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		
Alt.	HONG SHIEN ENTERPRISE CO LTD	03V-0		
Alt.	HONG WEI ENTERPRISES CO LTD	79		
Alt.	HSU TZU ELECTRONIC CO LTD	4V0		
Alt.	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		
Alt.	HSIANG KUO INDUSTRIAL CO LTD	76V0A		
Photo Coupler (U2, U3)	Cosmo	K1010	dti=0.7mm, Int. dcr=5.2mm Ext. dcr=8mm, thermal cycling test, 115°C	VDE
Alt.	Lite-On	LTV-817	dti=0.8mm, Int.dcr=5.2mm, Ext. dcr=7.8mm, 100°C	VDE
Alt.	Sharp	PC123	dti=0.7mm Int. dcr=5mm Ext. dcr=8mm, thermal cycling test, 110°C	VDE
Transformer(T1) (For HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2158	Class B	Tested with appliance
Alt.	Long Sail	TF-2158	Class B	Tested with appliance
Alt.	Jet Signal	TF-2158	Class B	Tested with appliance
Alt.	Elytone	TF-2158	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-15z) (Z=A, B, D or Blank)	Mean Well	TF-2159	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Long Sail	TF-2159	Class B	Tested with appliance
Alt.	Jet Signal	TF-2159	Class B	Tested with appliance
Alt.	Elytone	TF-2159	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-20z) (Z=A, B, D or Blank)	Mean Well	TF-2160	Class B	Tested with appliance
Alt.	Long Sail	TF-2160	Class B	Tested with appliance
Alt.	Jet Signal	TF-2160	Class B	Tested with appliance
Alt.	Elytone	TF-2160	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-24z) (Z=A, B, D or Blank)	Mean Well	TF-2161	Class B	Tested with appliance
Alt.	Long Sail	TF-2161	Class B	Tested with appliance
Alt.	Jet Signal	TF-2161	Class B	Tested with appliance
Alt.	Elytone	TF-2161	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-30z) (Z=A, B, D or Blank)	Mean Well	TF-2162	Class B	Tested with appliance
Alt.	Long Sail	TF-2162	Class B	Tested with appliance
Alt.	Jet Signal	TF-2162	Class B	Tested with appliance
Alt.	Elytone	TF-2162	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-36z, HLG-80H-36A-60W) (Z=A, B, D or Blank)	Mean Well	TF-2163	Class B	Tested with appliance
Alt.	Long Sail	TF-2163	Class B	Tested with appliance
Alt.	Jet Signal	TF-2163	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Elytone	TF-2163	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-42z) (Z=A, B, D or Blank)	Mean Well	TF-2164	Class B	Tested with appliance
Alt.	Long Sail	TF-2164	Class B	Tested with appliance
Alt.	Jet Signal	TF-2164	Class B	Tested with appliance
Alt.	Elytone	TF-2164	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-48z) (Z=A, B, D or Blank)	Mean Well	TF-2165	Class B	Tested with appliance
Alt.	Long Sail	TF-2165	Class B	Tested with appliance
Alt.	Jet Signal	TF-2165	Class B	Tested with appliance
Alt.	Elytone	TF-2165	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-54z) (Z=A, B, D or Blank)	Mean Well	TF-2166	Class B	Tested with appliance
Alt.	Long Sail	TF-2166	Class B	Tested with appliance
Alt.	Jet Signal	TF-2166	Class B	Tested with appliance
Alt.	Elytone	TF-2166	Class B	Tested with appliance
Line Filter (LF1)	Mean Well	TR-990	125°C	Tested with appliance
Line Filter (LF2)	Mean Well	TR-910B	130°C	Tested with appliance
Choke(L1)	Mean Well	TR-995	130°C	Tested with appliance
PFC Choke (L3) (Except for HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2157	130°C	Tested with appliance

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
PFC Choke (L3) (For HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2308	130°C	Tested with appliance
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟	KC
Alt.	Dongguan Lucky United	245 IEC 51 H03RT-H	3C x 0.75 ㎟ 3C x 1 ㎟	KC
Alt.	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟ 3C x 1.5 ㎟	KC
Alt.	I-sheng	60227 IEC 53	3G x 0.75 ㎟ 3G x 1.0 ㎟ 3G x 1.5 ㎟ 3G x 2.5 ㎟	KC
Alt.	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC
Alt.	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		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
Alt.	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

☐ 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-80H-12A	Identical except for output rating(DC 12V, 5A)
HLG-80H-12B	Identical except for output rating(DC 12V, 5A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-12D	Identical except for output rating(DC 12V, 5A) and top cover no holes provided
HLG-80H-12	Identical except for output rating(DC 12V, 5A) and top cover no holes provided
HLG-80H-15A	Identical except for output rating(DC 15V, 5A)
HLG-80H-15B	Identical except for output rating(DC 15V, 5A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-15D	Identical except for output rating(DC 15V, 5A) and top cover no holes provided
HLG-80H-15	Identical except for output rating(DC 15V, 5A) and top cover no holes provided
HLG-80H-20A	Identical except for output rating (DC 20V, 4A)
HLG-80H-20B	Identical except for output rating(DC 20V, 4A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-20D,	Identical except for output rating(DC 20V, 4A) and top cover no holes provided
HLG-80H-20	Identical except for output rating(DC 20V, 4A) and top cover no holes provided
HLG-80H-24A	Identical except for output rating(DC 24V, 3.4A)
HLG-80H-24B	Identical except for output rating(DC 24V, 3.4A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-24D	Identical except for output rating(DC 24V, 3.4A) and top cover no holes provided
HLG-80H-24	Identical except for output rating(DC 24V, 3.4A) and top cover no holes provided
HLG-80H-30A	Identical except for output rating(DC 30V, 2.7A)
HLG-80H-30B	Identical except for output rating(DC 30V, 2.7A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-30D	Identical except for output rating(DC 30V, 2.7A) and top cover no holes provided
HLG-80H-30	Identical except for output rating(DC 30V, 2.7A) and top cover no holes provided
HLG-80H-36A	Identical except for output rating(DC 36V, 2.3A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-80H-36A-60W	Identical except for output rating(DC 36V, 2.3A)
HLG-80H-36B	Identical except for output rating(DC 36V, 2.3A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-36D	Identical except for output rating(DC 36V, 2.3A) and top cover no holes provided
HLG-80H-36	Identical except for output rating(DC 36V, 2.3A) and top cover no holes provided
HLG-80H-42A	Identical except for output rating(DC 42V, 1.95A)
HLG-80H-42B	Identical except for output rating(DC 42V, 1.95A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-42D	Identical except for output rating(DC 42V, 1.95A), and top cover no holes provided
HLG-80H-42	Identical except for output rating(DC 42V, 1.95A), and top cover no holes provided
HLG-80H-48A	Identical except for output rating (DC 48V, 1.7A)
HLG-80H-48B	Identical except for output rating(DC 48V, 1.7A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-48D	Identical except for output rating(DC 48V, 1.7A) and top cover no holes provided
HLG-80H-48	Identical except for output rating(DC 48V, 1.7A) and top cover no holes provided
HLG-80H-54B	Identical except for output rating(DC 54V, 1.5A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-54D	Identical except for output rating(DC 54V, 1.5A) and top cover no holes provided
HLG-80H-54	Identical except for output rating(DC 54V, 1.5A) and top cover no holes provided

제품특기사항 및 시험조건 Remarks & Test conditions
1. Test Report Ref. No. : 11-1920-5549 (2011.11.01.) 2. Products Description - DC or AC supplied electronic controlgear for LED modules - 100-240 V~, 50/60 Hz, 100.8 W (Output:DC54 V, 1.5 A) - tc 80 ℃, ta 60 ℃ - Class of equipment : Class I - Constant voltage type - Independent SELV controlgear - Totally filled with potting within the enclosure
□ 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.) Addition of factory (16-015152-12 : 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 2nd Rev.) Change Addition factory name, address and president (16-067872-17 : 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.) : 16-015152-12

전 기 용 품 안 전 인 증 서

Electrical Appliances Safety Certificate

안 전 인 증 번 호 (Certificate No.)	:	SZ11007-11007A
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(LED용) (Electronic controlgear)
기 본 모 델 명 (Basic Model)	:	HLG-80H-54A
정 격 (Rating)	:	AC100-240V 50/60Hz 100.8W
파 생 모 델 명 (Series Model)	:	See the attachment 2
적 용 기 준 (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.

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. : SZ11007-11007A

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	250 V 3.15A	VDE
Alt.	Conquer	MST	300V 3.15A	UL
Alt.	Walter	2010-series	250 V 3.15A	VDE
Varistor(ZNR1)	Centra Science	CNR14D301K	195 Vac, 250 Vdc	UL
Alt.	Joyin	14N301K, 10S301K, 14S301K	195 Vac, 250 Vdc	UL
Alt.	Thinking	TVR10301-D	195 Vac, 250 Vdc	UL
Alt.	Thinking	TVR14301-D	195 Vac, 250 Vdc	UL
Y- Capacitors (C3, C4, C30)	Murata	KX, KH	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 1000pF, Y1 or Y2	ENEC
Y- Capacitors (C129) For HLG-80H-12z, HLG-80H-42z, HLG-80H-48z, HLG-80H-54z (z= A,B,D,or blank)	Murata	KX, KH	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 330pF, Y1 or Y2	ENEC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Y- Capacitors (C129) Except for for HLG-80H-12z, HLG-80H-42z, HLG-80H-48z, HLG-80H-54z (z=A,B,D,or blank)	Murata	KX, KH	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 470pF, Y1 or Y2	ENEC
X-capacitor (C1)	KEMET(Arcotronics)	R.46	300 Vac, 0.1uF, X1 or X2	ENEC
Alt.		R.49	310 Vac, 0.1uF, X1 or X2	ENEC
Alt.	Epcos	B3292#-...	305 Vac, 0.1uF, X1 or X2	VDE
Alt.	ISKRA	KNB 1530	300 Vac, 0.1uF, X1 or X2	VDE
Alt.		KNB 1560	300 Vac, 0.1uF, X1 or X2	VDE
Alt.	Liow Gu	GS-L	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Pilkor	PCX2 335	275 Vac, 0.1uF, X1 or X2	VDE
Alt.		PCX2 335M	275 Vac, 0.1uF, X1 or X2	ENEC
Alt.		PCX2 337	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Ultra	HQX	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Cheng Tung	CTX	300 Vac, 0.1uF, X1 or X2	VDE
Bridging Capacitor (C31)	Murata	KX	250 Vac, 2200 pF, Y1	VDE
Alt.	Walsin	AH	250 Vac, 2200 pF, Y1	VDE
Alt.	TDK	CD	250 Vac, 2200 pF, Y1	VDE
Alt.	Welson	WD	250 Vac, 2200 pF, Y1	VDE

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, 130°C	UL
Alt.	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		
Alt.	HONG SHIEN ENTERPRISE CO LTD	03V-0		
Alt.	HONG WEI ENTERPRISES CO LTD	79		
Alt.	HSU TZU ELECTRONIC CO LTD	4V0		
Alt.	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		
Alt.	HSIANG KUO INDUSTRIAL CO LTD	76V0A		
Photo Coupler (U2, U3)	Cosmo	K1010	dti=0.7mm, Int. dcr=5.2mm Ext. dcr=8mm, thermal cycling test, 115°C	VDE
Alt.	Lite-On	LTV-817	dti=0.8mm, Int.dcr=5.2mm, Ext. dcr=7.8mm, 100°C	VDE
Alt.	Sharp	PC123	dti=0.7mm Int. dcr=5mm Ext. dcr=8mm, thermal cycling test, 110°C	VDE
Transformer(T1) (For HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2158	Class B	Tested with appliance
Alt.	Long Sail	TF-2158	Class B	Tested with appliance
Alt.	Jet Signal	TF-2158	Class B	Tested with appliance
Alt.	Elytone	TF-2158	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-15z) (Z=A, B, D or Blank)	Mean Well	TF-2159	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Long Sail	TF-2159	Class B	Tested with appliance
Alt.	Jet Signal	TF-2159	Class B	Tested with appliance
Alt.	Elytone	TF-2159	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-20z) (Z=A, B, D or Blank)	Mean Well	TF-2160	Class B	Tested with appliance
Alt.	Long Sail	TF-2160	Class B	Tested with appliance
Alt.	Jet Signal	TF-2160	Class B	Tested with appliance
Alt.	Elytone	TF-2160	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-24z) (Z=A, B, D or Blank)	Mean Well	TF-2161	Class B	Tested with appliance
Alt.	Long Sail	TF-2161	Class B	Tested with appliance
Alt.	Jet Signal	TF-2161	Class B	Tested with appliance
Alt.	Elytone	TF-2161	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-30z) (Z=A, B, D or Blank)	Mean Well	TF-2162	Class B	Tested with appliance
Alt.	Long Sail	TF-2162	Class B	Tested with appliance
Alt.	Jet Signal	TF-2162	Class B	Tested with appliance
Alt.	Elytone	TF-2162	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-36z, HLG-80H-36A-60W) (Z=A, B, D or Blank)	Mean Well	TF-2163	Class B	Tested with appliance
Alt.	Long Sail	TF-2163	Class B	Tested with appliance
Alt.	Jet Signal	TF-2163	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Elytone	TF-2163	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-42z) (Z=A, B, D or Blank)	Mean Well	TF-2164	Class B	Tested with appliance
Alt.	Long Sail	TF-2164	Class B	Tested with appliance
Alt.	Jet Signal	TF-2164	Class B	Tested with appliance
Alt.	Elytone	TF-2164	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-48z) (Z=A, B, D or Blank)	Mean Well	TF-2165	Class B	Tested with appliance
Alt.	Long Sail	TF-2165	Class B	Tested with appliance
Alt.	Jet Signal	TF-2165	Class B	Tested with appliance
Alt.	Elytone	TF-2165	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-54z) (Z=A, B, D or Blank)	Mean Well	TF-2166	Class B	Tested with appliance
Alt.	Long Sail	TF-2166	Class B	Tested with appliance
Alt.	Jet Signal	TF-2166	Class B	Tested with appliance
Alt.	Elytone	TF-2166	Class B	Tested with appliance
Line Filter (LF1)	Mean Well	TR-990	125°C	Tested with appliance
Line Filter (LF2)	Mean Well	TR-910B	130°C	Tested with appliance
Choke(L1)	Mean Well	TR-995	130°C	Tested with appliance
PFC Choke (L3) (Except for HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2157	130°C	Tested with appliance

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
PFC Choke (L3) (For HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2308	130°C	Tested with appliance
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟	KC
Alt.	Dongguan Lucky United	245 IEC 51 H03RT-H	3C x 0.75 ㎟ 3C x 1 ㎟	KC
Alt.	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟ 3C x 1.5 ㎟	KC
Alt.	I-sheng	60227 IEC 53	3G x 0.75 ㎟ 3G x 1.0 ㎟ 3G x 1.5 ㎟ 3G x 2.5 ㎟	KC
Alt.	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC
Alt.	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		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
Alt.	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

☐ 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-80H-12A	Identical except for output rating(DC 12V, 5A)
HLG-80H-12B	Identical except for output rating(DC 12V, 5A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-12D	Identical except for output rating(DC 12V, 5A) and top cover no holes provided
HLG-80H-12	Identical except for output rating(DC 12V, 5A) and top cover no holes provided
HLG-80H-15A	Identical except for output rating(DC 15V, 5A)
HLG-80H-15B	Identical except for output rating(DC 15V, 5A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-15D	Identical except for output rating(DC 15V, 5A) and top cover no holes provided
HLG-80H-15	Identical except for output rating(DC 15V, 5A) and top cover no holes provided
HLG-80H-20A	Identical except for output rating (DC 20V, 4A)
HLG-80H-20B	Identical except for output rating(DC 20V, 4A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-20D,	Identical except for output rating(DC 20V, 4A) and top cover no holes provided
HLG-80H-20	Identical except for output rating(DC 20V, 4A) and top cover no holes provided
HLG-80H-24A	Identical except for output rating(DC 24V, 3.4A)
HLG-80H-24B	Identical except for output rating(DC 24V, 3.4A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-24D	Identical except for output rating(DC 24V, 3.4A) and top cover no holes provided
HLG-80H-24	Identical except for output rating(DC 24V, 3.4A) and top cover no holes provided
HLG-80H-30A	Identical except for output rating(DC 30V, 2.7A)
HLG-80H-30B	Identical except for output rating(DC 30V, 2.7A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-30D	Identical except for output rating(DC 30V, 2.7A) and top cover no holes provided
HLG-80H-30	Identical except for output rating(DC 30V, 2.7A) and top cover no holes provided
HLG-80H-36A	Identical except for output rating(DC 36V, 2.3A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-80H-36A-60W	Identical except for output rating(DC 36V, 2.3A)
HLG-80H-36B	Identical except for output rating(DC 36V, 2.3A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-36D	Identical except for output rating(DC 36V, 2.3A) and top cover no holes provided
HLG-80H-36	Identical except for output rating(DC 36V, 2.3A) and top cover no holes provided
HLG-80H-42A	Identical except for output rating(DC 42V, 1.95A)
HLG-80H-42B	Identical except for output rating(DC 42V, 1.95A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-42D	Identical except for output rating(DC 42V, 1.95A), and top cover no holes provided
HLG-80H-42	Identical except for output rating(DC 42V, 1.95A), and top cover no holes provided
HLG-80H-48A	Identical except for output rating (DC 48V, 1.7A)
HLG-80H-48B	Identical except for output rating(DC 48V, 1.7A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-48D	Identical except for output rating(DC 48V, 1.7A) and top cover no holes provided
HLG-80H-48	Identical except for output rating(DC 48V, 1.7A) and top cover no holes provided
HLG-80H-54B	Identical except for output rating(DC 54V, 1.5A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-54D	Identical except for output rating(DC 54V, 1.5A) and top cover no holes provided
HLG-80H-54	Identical except for output rating(DC 54V, 1.5A) and top cover no holes provided

제품특기사항 및 시험조건 Remarks & Test conditions
1. Test Report Ref. No. : 11-1920-5549 (2011.11.01.) 2. Products Description - DC or AC supplied electronic controlgear for LED modules - 100-240 V~, 50/60 Hz, 100.8 W (Output:DC54 V, 1.5 A) - tc 80 ℃, ta 60 ℃ - Class of equipment : Class I - Constant voltage type - Independent SELV controlgear - Totally filled with potting within the enclosure
□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 디지털 산업본부 정보조명평가센터 정재훈/ (02)860-1424 □ *If you have any question on product testing, please contact the person below :* *Job holder : Smart Technology 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.) Addition of factory (16-015152-12 : 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.) : 11-1920-5549

전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호 (Certificate No.)	: SZ11007-11007
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-80H-54A
정격 (Rating)	: AC100-240V, 50/60Hz, 1.0-0.42A, 100.8W (Output: DC54V, 1.5A)
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 11월 02일
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	250 V 3.15A	VDE
Alt.	Conquer	MST	300V 3.15A	UL
Alt.	Walter	2010-series	250 V 3.15A	VDE
Varistor(ZNR1)	Centra Science	CNR14D301K	195 Vac, 250 Vdc	UL
Alt.	Joyin	14N301K, 10S301K, 14S301K	195 Vac, 250 Vdc	UL
Alt.	Thinking	TVR10301-D	195 Vac, 250 Vdc	UL
Alt.	Thinking	TVR14301-D	195 Vac, 250 Vdc	UL
Y- Capacitors (C3, C4, C30)	Murata	KX, KH	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 1000pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 1000pF, Y1 or Y2	ENEC
Y- Capacitors (C129) For HLG-80H-12z, HLG-80H-42z, HLG-80H-48z, HLG-80H-54z (z= A,B,D,or blank)	Murata	KX, KH	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 330pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 330pF, Y1 or Y2	ENEC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Y- Capacitors (C129) Except for for HLG-80H-12z, HLG-80H-42z, HLG-80H-48z, HLG-80H-54z (z=A,B,D,or blank)	Murata	KX, KH	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Walsin	AC, AH	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	TDK	CD, CS	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Welson	WD,KL	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Vishay	440L	250 Vac, 470pF, Y1 or Y2	VDE
Alt.	Vishay	338 6	250 Vac, 470pF, Y1 or Y2	ENEC
X-capacitor (C1)	KEMET(Arcotronics)	R.46	300 Vac, 0.1uF, X1 or X2	ENEC
Alt.		R.49	310 Vac, 0.1uF, X1 or X2	ENEC
Alt.	Epcos	B3292#-...	305 Vac, 0.1uF, X1 or X2	VDE
Alt.	ISKRA	KNB 1530	300 Vac, 0.1uF, X1 or X2	VDE
Alt.		KNB 1560	300 Vac, 0.1uF, X1 or X2	VDE
Alt.	Liow Gu	GS-L	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Pilkor	PCX2 335	275 Vac, 0.1uF, X1 or X2	VDE
Alt.		PCX2 335M	275 Vac, 0.1uF, X1 or X2	ENEC
Alt.		PCX2 337	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Ultra	HQX	275 Vac, 0.1uF, X1 or X2	VDE
Alt.	Cheng Tung	CTX	300 Vac, 0.1uF, X1 or X2	VDE
Bridging Capacitor (C31)	Murata	KX	250 Vac, 2200 pF, Y1	VDE
Alt.	Walsin	AH	250 Vac, 2200 pF, Y1	VDE
Alt.	TDK	CD	250 Vac, 2200 pF, Y1	VDE
Alt.	Welson	WD	250 Vac, 2200 pF, Y1	VDE

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, 130°C	UL
Alt.	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		
Alt.	HONG SHIEN ENTERPRISE CO LTD	03V-0		
Alt.	HONG WEI ENTERPRISES CO LTD	79		
Alt.	HSU TZU ELECTRONIC CO LTD	4V0		
Alt.	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		
Alt.	HSIANG KUO INDUSTRIAL CO LTD	76V0A		
Photo Coupler (U2, U3)	Cosmo	K1010	dti=0.7mm, Int. dcr=5.2mm Ext. dcr=8mm, thermal cycling test, 115°C	VDE
Alt.	Lite-On	LTV-817	dti=0.8mm, Int.dcr=5.2mm, Ext. dcr=7.8mm, 100°C	VDE
Alt.	Sharp	PC123	dti=0.7mm Int. dcr=5mm Ext. dcr=8mm, thermal cycling test, 110°C	VDE
Transformer(T1) (For HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2158	Class B	Tested with appliance
Alt.	Long Sail	TF-2158	Class B	Tested with appliance
Alt.	Jet Signal	TF-2158	Class B	Tested with appliance
Alt.	Elytone	TF-2158	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-15z) (Z=A, B, D or Blank)	Mean Well	TF-2159	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Long Sail	TF-2159	Class B	Tested with appliance
Alt.	Jet Signal	TF-2159	Class B	Tested with appliance
Alt.	Elytone	TF-2159	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-20z) (Z=A, B, D or Blank)	Mean Well	TF-2160	Class B	Tested with appliance
Alt.	Long Sail	TF-2160	Class B	Tested with appliance
Alt.	Jet Signal	TF-2160	Class B	Tested with appliance
Alt.	Elytone	TF-2160	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-24z) (Z=A, B, D or Blank)	Mean Well	TF-2161	Class B	Tested with appliance
Alt.	Long Sail	TF-2161	Class B	Tested with appliance
Alt.	Jet Signal	TF-2161	Class B	Tested with appliance
Alt.	Elytone	TF-2161	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-30z) (Z=A, B, D or Blank)	Mean Well	TF-2162	Class B	Tested with appliance
Alt.	Long Sail	TF-2162	Class B	Tested with appliance
Alt.	Jet Signal	TF-2162	Class B	Tested with appliance
Alt.	Elytone	TF-2162	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-36z, HLG-80H-36A-60W) (Z=A, B, D or Blank)	Mean Well	TF-2163	Class B	Tested with appliance
Alt.	Long Sail	TF-2163	Class B	Tested with appliance
Alt.	Jet Signal	TF-2163	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Elytone	TF-2163	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-42z) (Z=A, B, D or Blank)	Mean Well	TF-2164	Class B	Tested with appliance
Alt.	Long Sail	TF-2164	Class B	Tested with appliance
Alt.	Jet Signal	TF-2164	Class B	Tested with appliance
Alt.	Elytone	TF-2164	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-48z) (Z=A, B, D or Blank)	Mean Well	TF-2165	Class B	Tested with appliance
Alt.	Long Sail	TF-2165	Class B	Tested with appliance
Alt.	Jet Signal	TF-2165	Class B	Tested with appliance
Alt.	Elytone	TF-2165	Class B	Tested with appliance
Transformer(T1) (For HLG-80H-54z) (Z=A, B, D or Blank)	Mean Well	TF-2166	Class B	Tested with appliance
Alt.	Long Sail	TF-2166	Class B	Tested with appliance
Alt.	Jet Signal	TF-2166	Class B	Tested with appliance
Alt.	Elytone	TF-2166	Class B	Tested with appliance
Line Filter (LF1)	Mean Well	TR-990	125°C	Tested with appliance
Line Filter (LF2)	Mean Well	TR-910B	130°C	Tested with appliance
Choke(L1)	Mean Well	TR-995	130°C	Tested with appliance
PFC Choke (L3) (Except for HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2157	130°C	Tested with appliance

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
PFC Choke (L3) (For HLG-80H-12z) (Z=A, B, D or Blank)	Mean Well	TF-2308	130°C	Tested with appliance
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟	KC
Alt.	Dongguan Lucky United	245 IEC 51 H03RT-H	3C x 0.75 ㎟ 3C x 1 ㎟	KC
Alt.	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 ㎟ 3C x 1 ㎟ 3C x 1.5 ㎟	KC
Alt.	I-sheng	60227 IEC 53	3G x 0.75 ㎟ 3G x 1.0 ㎟ 3G x 1.5 ㎟ 3G x 2.5 ㎟	KC
Alt.	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC
Alt.	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 ㎟	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 ㎟ 3G x 1.0 ㎟	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		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
Alt.	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

☐ 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-80H-12A	Identical except for output rating(DC 12V, 5A)
HLG-80H-12B	Identical except for output rating(DC 12V, 5A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-12D	Identical except for output rating(DC 12V, 5A) and top cover no holes provided
HLG-80H-12	Identical except for output rating(DC 12V, 5A) and top cover no holes provided
HLG-80H-15A	Identical except for output rating(DC 15V, 5A)
HLG-80H-15B	Identical except for output rating(DC 15V, 5A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-15D	Identical except for output rating(DC 15V, 5A) and top cover no holes provided
HLG-80H-15	Identical except for output rating(DC 15V, 5A) and top cover no holes provided
HLG-80H-20A	Identical except for output rating (DC 20V, 4A)
HLG-80H-20B	Identical except for output rating(DC 20V, 4A), output wire with 18AWG*2C ×2 and top cover no hole provided
HLG-80H-20D	Identical except for output rating(DC 20V, 4A) and top cover no holes provided
HLG-80H-20	Identical except for output rating(DC 20V, 4A) and top cover no holes provided
HLG-80H-24A	Identical except for output rating(DC 24V, 3.4A)
HLG-80H-24B	Identical except for output rating(DC 24V, 3.4A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-24D	Identical except for output rating(DC 24V, 3.4A) and top cover no holes provided
HLG-80H-24	Identical except for output rating(DC 24V, 3.4A) and top cover no holes provided
HLG-80H-30A	Identical except for output rating(DC 30V, 2.7A)
HLG-80H-30B	Identical except for output rating(DC 30V, 2.7A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-30D	Identical except for output rating(DC 30V, 2.7A) and top cover no holes provided
HLG-80H-30	Identical except for output rating(DC 30V, 2.7A) and top cover no holes provided
HLG-80H-36A	Identical except for output rating(DC 36V, 2.3A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-80H-36A-60W	Identical except for output rating(DC 36V, 2.3A)
HLG-80H-36B	Identical except for output rating(DC 36V, 2.3A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-36D	Identical except for output rating(DC 36V, 2.3A) and top cover no holes provided
HLG-80H-36	Identical except for output rating(DC 36V, 2.3A) and top cover no holes provided
HLG-80H-42A	Identical except for output rating(DC 42V, 1.95A)
HLG-80H-42B	Identical except for output rating(DC 42V, 1.95A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-42D	Identical except for output rating(DC 42V, 1.95A), and top cover no holes provided
HLG-80H-42	Identical except for output rating(DC 42V, 1.95A), and top cover no holes provided
HLG-80H-48A	Identical except for output rating (DC 48V, 1.7A)
HLG-80H-48B	Identical except for output rating(DC 48V, 1.7A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-48D	Identical except for output rating(DC 48V, 1.7A) and top cover no holes provided
HLG-80H-48	Identical except for output rating(DC 48V, 1.7A) and top cover no holes provided
HLG-80H-54B	Identical except for output rating(DC 54V, 1.5A), output wire with 18AWG*2C×2 and top cover no hole provided
HLG-80H-54D	Identical except for output rating(DC 54V, 1.5A) and top cover no holes provided
HLG-80H-54	Identical except for output rating(DC 54V, 1.5A) and top cover no holes provided

제품특기사항 및 시험조건 Remarks & Test conditions
1. Test Report Ref. No. : 11-1920-5549 (2011.11.01.) 2. Products Description - DC or AC supplied electronic controlgear for LED modules - 100-240 V~, 50/60 Hz, 100.8 W (Output:DC54 V, 1.5 A) - tc 80 ℃, ta 60 ℃ - Class of equipment : Class I - Constant voltage type - Independent SELV controlgear - Totally filled with potting within the enclosure
□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 디지털산업본부 전기전자평가센터 정재훈 / (02)860-1424 □ *If you have any question on product testing, please contact the person below :* *Job holder : Digital Industry Division Electric & Electronics Testing Center, Jae-Hoon Jung/+82 2 8601-424*

FP511-09-00

□ 첨부 3 : 전기용품안전인증의 변경 현황
Status of Certificate Revisions

변경발급 내용 Contents of Certificate Revisions
Not applicable

FP511-11-00