KC Conformity Mark · Korea

HLG-40H-24B

cloud light pendant · small + medium (24V)

molo design, ltd.

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접 수 번 호 (Receipt No.) : 17-051479-01-1

안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 (Certificate No.) : SZ11007-12001C

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-60H-54

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

정격/안전기준상의 모델구분 (Rating) : AC 100-240 V, 50/60 Hz, 72 W (Output: DC 54 V, 1.15 A)

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

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

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항 · 제4항 또는 제10조제2항에 따라 안전인증서를 발급합니다.

We Issue This Safety Certificate for the above appliances in accordance with the Article 9(2),9(4) or10 (2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2017 년 (Year) 08 월 (month) 30 일 (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. : SZ11007-12001C

다수 공장의 현황
(The status of Multiple Factories)

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

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

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST-Series	T3.15 A, 250 Vac T3.15 A, 300 Vac	VDE
Alt.	Walter	2010-Series	T3.15A, 250 Vac	VDE
Varistor (ZNR1)	Thinking	TVR10361-D, TVR14361-D	230 Vac, 300 Vdc	UL
Alt.		TVR10301-D, TVR14301-D	195 Vac, 250 Vdc	UL
Alt.		TVR10331-D, TVR14331-D	215 Vac, 275 Vdc	UL
Alt.	Centra Science	CNR14D361K	230 Vac, 300 Vdc	UL
Alt.		CNR14D301K	195 Vac, 250 Vdc	UL
Alt.		CNR14D331K	215 Vac, 275 Vdc	UL
Alt.	Joyin	14N301K, 10S301K, 14S301K	195 Vac, 250 Vdc	UL
Alt.		14N331K, 10S331K, 14S331K	215 Vac, 275 Vdc	UL
Alt.		14N361K, 10S361K, 14S361K	230 Vac, 300 Vdc	UL
Bridging capacitors (C 31, C32)	Murata	KX, KH	250 Vac, 3300 pF, Y1	VDE
Alt.	Walsin	AC, AH	250 Vac, 3300 pF, Y1	VDE
Alt.	TDK	CD, CS	250 Vac, 3300 pF, Y1	VDE
Alt.	Vishay	440L	250 Vac, 3300 pF, Y1	ENEC
		338 6	250 Vac, 3300 pF, Y1	
X-capacitor (C1)	Kemet	R.46	300 Vac, 0.22 uF, X2	ENEC
Alt.		R.49	310 Vac, 0.22 uF, X2	ENEC
Alt.	Epcos	B3292#...	305 Vac, 0.22 uF, X2	VDE
Alt.	ISKRA	KNB 1530	300 Vac, 0.22 uF, X2	VDE
Alt.		KNB 1560	300 Vac, 0.22 uF, X2	VDE
Alt.	Liow Gu	GS-L	275 Vac, 0.22 uF, 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.	Pilkor	PCX2 335M	275 Vac, 0.22 uF, X2	ENEC
Alt.		PCX2 337	275 Vac, 0.22 uF, X2	VDE
Alt.	Ultra	HQX	275 Vac, 0.22 uF, X2	VDE
Alt.	Cheng Tung	CTX	300 Vac, 0.22 uF, X2	VDE
Y-Capacitor (C3,C4,C30,C129)	Murata	KX, KH	250 Vac, 1000 pF, Y1	VDE
Alt.	Walsin	AC, AH	250 Vac, 1000 pF, Y1	VDE
Alt.	TDK	CD, CS	250 Vac, 1000 pF, Y1	VDE
Alt.	Vishay	440L	250 Vac, 1000 pF, Y1	VDE
		338 6	250 Vac, 1000 pF, Y1	ENEC
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D, JD-E	Min.V-1, 130 ℃	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		
Alt.	JIIN-YU	JY-001		
Alt.	COFAN	003		
Photo Coupler (U2, U3)	Cosmo	K1010	dti=0.7 mm, Int. dcr=5.2 mm Ext. dcr=8 mm, thermal cycling test, 115 ℃	VDE
Alt.	Lite-On	LTV-817 LTV-817M	dti=0.8 mm, Int.dcr=5.2 mm, Ent. dcr=7.8 mm, 100 ℃	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=0.7 mm Int. dcr=5 mm Ext. dcr=8 mm, thermal cycling test, 110 ℃	VDE
Transformer(T1) (For HLG-60H-15z, z=A,D or blank)	Mean Well	TF-2298	Class B	Tested with appliance
Alt.	Long Sail	TF-2298	Class B	Tested with appliance
Alt.	Jet Signal	TF-2298	Class B	Tested with appliance
Alt.	Elytone	TF-2298	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-15B)	Mean Well	TF-2315	Class B	Tested with appliance
Alt.	Long Sail	TF-2315	Class B	Tested with appliance
Alt.	Jet Signal	TF-2315	Class B	Tested with appliance
Alt.	Elytone	TF-2315	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-20z, z=A,D or blank)	Mean Well	TF-2299	Class B	Tested with appliance
Alt.	Long Sail	TF-2299	Class B	Tested with appliance
Alt.	Jet Signal	TF-2299	Class B	Tested with appliance
Alt.	Elytone	TF-2299	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-20B)	Mean Well	TF-2316	Class B	Tested with appliance
Alt.	Long Sail	TF-2316	Class B	Tested with appliance
Alt.	Jet Signal	TF-2316	Class B	Tested with appliance
Alt.	Elytone	TF-2316	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-24z, z=A,D or blank)	Mean Well	TF-2300	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-2300	Class B	Tested with appliance
Alt.	Jet Signal	TF-2300	Class B	Tested with appliance
Alt.	Elytone	TF-2300	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-24B)	Mean Well	TF-2317	Class B	Tested with appliance
Alt.	Long Sail	TF-2317	Class B	Tested with appliance
Alt.	Jet Signal	TF-2317	Class B	Tested with appliance
Alt.	Elytone	TF-2317	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-30z, z=A,D or blank)	Mean Well	TF-2301	Class B	Tested with appliance
Alt.	Long Sail	TF-2301	Class B	Tested with appliance
Alt.	Jet Signal	TF-2301	Class B	Tested with appliance
Alt.	Elytone	TF-2301	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-30B)	Mean Well	TF-2318	Class B	Tested with appliance
Alt.	Long Sail	TF-2318	Class B	Tested with appliance
Alt.	Jet Signal	TF-2318	Class B	Tested with appliance
Alt.	Elytone	TF-2318	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-36z, z=A,D or blank)	Mean Well	TF-2302	Class B	Tested with appliance
Alt.	Long Sail	TF-2302	Class B	Tested with appliance
Alt.	Jet Signal	TF-2302	Class B	Tested with appliance
Alt.	Elytone	TF-2302	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-36B)	Mean Well	TF-2319	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-2319	Class B	Tested with appliance
Alt.	Jet Signal	TF-2319	Class B	Tested with appliance
Alt.	Elytone	TF-2319	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-42z, z=A,D or blank)	Mean Well	TF-2303	Class B	Tested with appliance
Alt.	Long Sail	TF-2303	Class B	Tested with appliance
Alt.	Jet Signal	TF-2303	Class B	Tested with appliance
Alt.	Elytone	TF-2303	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-42B)	Mean Well	TF-2320	Class B	Tested with appliance
Alt.	Long Sail	TF-2320	Class B	Tested with appliance
Alt.	Jet Signal	TF-2320	Class B	Tested with appliance
Alt.	Elytone	TF-2320	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-48z, z=A,D or blank)	Mean Well	TF-2304	Class B	Tested with appliance
Alt.	Long Sail	TF-2304	Class B	Tested with appliance
Alt.	Jet Signal	TF-2304	Class B	Tested with appliance
Alt.	Elytone	TF-2304	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-48B)	Mean Well	TF-2321	Class B	Tested with appliance
Alt.	Long Sail	TF-2321	Class B	Tested with appliance
Alt.	Jet Signal	TF-2321	Class B	Tested with appliance
Alt.	Elytone	TF-2321	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-60H-54z, z=A,D or blank)	Mean Well	TF-2305	Class B	Tested with appliance
Alt.	Long Sail	TF-2305	Class B	Tested with appliance
Alt.	Jet Signal	TF-2305	Class B	Tested with appliance
Alt.	Elytone	TF-2305	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-54B)	Mean Well	TF-2322	Class B	Tested with appliance
Alt.	Long Sail	TF-2322	Class B	Tested with appliance
Alt.	Jet Signal	TF-2322	Class B	Tested with appliance
Alt.	Elytone	TF-2322	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-12z, z=A,D or blank)	Mean Well	TF-2324	Class B	Tested with appliance
Alt.	Long Sail	TF-2324	Class B	Tested with appliance
Alt.	Jet Signal	TF-2324	Class B	Tested with appliance
Alt.	Elytone	TF-2324	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-12B)	Mean Well	TF-2333	Class B	Tested with appliance
Alt.	Long Sail	TF-2333	Class B	Tested with appliance
Alt.	Jet Signal	TF-2333	Class B	Tested with appliance
Alt.	Elytone	TF-2333	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-15z, z=A,D or blank)	Mean Well	TF-2325	Class B	Tested with appliance
Alt.	Long Sail	TF-2325	Class B	Tested with appliance
Alt.	Jet Signal	TF-2325	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-2325	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-15B)	Mean Well	TF-2334	Class B	Tested with appliance
Alt.	Long Sail	TF-2334	Class B	Tested with appliance
Alt.	Jet Signal	TF-2334	Class B	Tested with appliance
Alt.	Elytone	TF-2334	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-20z, z=A,D or blank)	Mean Well	TF-2326	Class B	Tested with appliance
Alt.	Long Sail	TF-2326	Class B	Tested with appliance
Alt.	Jet Signal	TF-2326	Class B	Tested with appliance
Alt.	Elytone	TF-2326	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-20B)	Mean Well	TF-2335	Class B	Tested with appliance
Alt.	Long Sail	TF-2335	Class B	Tested with appliance
Alt.	Jet Signal	TF-2335	Class B	Tested with appliance
Alt.	Elytone	TF-2335	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-24z, z=A,D or blank)	Mean Well	TF-2327	Class B	Tested with appliance
Alt.	Long Sail	TF-2327	Class B	Tested with appliance
Alt.	Jet Signal	TF-2327	Class B	Tested with appliance
Alt.	Elytone	TF-2327	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-24B)	Mean Well	TF-2336	Class B	Tested with appliance
Alt.	Long Sail	TF-2336	Class B	Tested with appliance
Alt.	Jet Signal	TF-2336	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-2336	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-30z, z=A,D or blank)	Mean Well	TF-2328	Class B	Tested with appliance
Alt.	Long Sail	TF-2328	Class B	Tested with appliance
Alt.	Jet Signal	TF-2328	Class B	Tested with appliance
Alt.	Elytone	TF-2328	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-30B)	Mean Well	TF-2337	Class B	Tested with appliance
Alt.	Long Sail	TF-2337	Class B	Tested with appliance
Alt.	Jet Signal	TF-2337	Class B	Tested with appliance
Alt.	Elytone	TF-2337	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-36z, z=A,D or blank)	Mean Well	TF-2329	Class B	Tested with appliance
Alt.	Long Sail	TF-2329	Class B	Tested with appliance
Alt.	Jet Signal	TF-2329	Class B	Tested with appliance
Alt.	Elytone	TF-2329	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-36B)	Mean Well	TF-2338	Class B	Tested with appliance
Alt.	Long Sail	TF-2338	Class B	Tested with appliance
Alt.	Jet Signal	TF-2338	Class B	Tested with appliance
Alt.	Elytone	TF-2338	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-42z, z=A,D or blank)	Mean Well	TF-2330	Class B	Tested with appliance
Alt.	Long Sail	TF-2330	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.	Jet Signal	TF-2330	Class B	Tested with appliance
Alt.	Elytone	TF-2330	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-42B)	Mean Well	TF-2339	Class B	Tested with appliance
Alt.	Long Sail	TF-2339	Class B	Tested with appliance
Alt.	Jet Signal	TF-2339	Class B	Tested with appliance
Alt.	Elytone	TF-2339	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-48z, z=A,D or blank)	Mean Well	TF-2331	Class B	Tested with appliance
Alt.	Long Sail	TF-2331	Class B	Tested with appliance
Alt.	Jet Signal	TF-2331	Class B	Tested with appliance
Alt.	Elytone	TF-2331	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-48B)	Mean Well	TF-2340	Class B	Tested with appliance
Alt.	Long Sail	TF-2340	Class B	Tested with appliance
Alt.	Jet Signal	TF-2340	Class B	Tested with appliance
Alt.	Elytone	TF-2340	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-54z, z=A,D or blank)	Mean Well	TF-2332	Class B	Tested with appliance
Alt.	Long Sail	TF-2332	Class B	Tested with appliance
Alt.	Jet Signal	TF-2332	Class B	Tested with appliance
Alt.	Elytone	TF-2332	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-54B)	Mean Well	TF-2341	Class B	Tested with appliance
Alt.	Long Sail	TF-2341	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.	Jet Signal	TF-2341	Class B	Tested with appliance
Alt.	Elytone	TF-2341	Class B	Tested with appliance
Choke (LF1)	Mean Well	TR-732	130 ℃	Tested with appliance
Choke (LF2)	Mean Well	LF-159A	120 ℃	Tested with appliance
Choke (L1) (For HLG-40H-yz, y=12, 15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TR-1003	130 ℃	Tested with appliance
Choke (L1) (For HLG-60H-yz, y=15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TR-991	130 ℃	Tested with appliance
PFC Choke (L3) (For HLG-40H-yz, y=12, 15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TF-2323	130 ℃	Tested with appliance
PFC Choke (L3) (For HLG-60H-yz, y=15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TF-2296	130 ℃	Tested with appliance
Power Cord	Dongguan Lucky United	K60245 IEC 51 H03RT-H	3C x 0.75 ㎟	KC
Alt.		K60245 IEC 57 H05RN-F	3C x 0.75/1.0 ㎟	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		K60227 IEC 53 H05VV-F	3C x 0.75/1.0/1.5/2.0/2.5 ㎟	KC
Alt.	I-sheng	K60227 IEC 53	3C x 0.75/1.0/1.5/2.5 ㎟	KC
Alt.	Guangdong Rifeng	K60245 IEC 57 H05RN-F	3C x 0.75/1.0/1.5 ㎟	KC
Alt.	Foxconn	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		K60227 IEC 53 H05VV-F	3C x 0.75/1.0 ㎟	KC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Fuyu	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		K60227 IEC 53 H05VV-F	3C x 0.75/1.0 ㎟	KC
Alt.	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75/1.0/1.5/2.0/2.5 ㎟	KC
Alt.	Zheng Yu Electric Appliance	K60245 IEC 57 H05RN-F	3C x 0.75 ㎟	KC
Alt.	Fittings(Kunshan)Co., Ltd.	K60245 IEC 57 H05RN-F	3C x 1.0 ㎟	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-40H-12A	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A) and type A top enclosure
HLG-40H-12B	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-12D	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A) and type D of dimming control board
HLG-40H-12	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A)
HLG-40H-15A	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A) and type A top enclosure
HLG-40H-15B	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-15D	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A) and type D of dimming control board
HLG-40H-15	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A)
HLG-40H-20A	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A) and type A top enclosure
HLG-40H-20B	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-20D	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A) and type D of dimming control board
HLG-40H-20	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A)
HLG-40H-24A	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A) and type A top enclosure
HLG-40H-24B	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-24D	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A) and type D of dimming control board
HLG-40H-24	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A)
HLG-40H-30A	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A) and type A top enclosure
HLG-40H-30B	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-30D	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A) and type D of dimming control board
HLG-40H-30	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-40H-36A	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A) and type A top enclosure
HLG-40H-36B	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-36D	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A) and type D of dimming control board
HLG-40H-36	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A)
HLG-40H-42A	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A) and type A top enclosure
HLG-40H-42B	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-42D	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A) and type D of dimming control board
HLG-40H-42	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A)
HLG-40H-48A	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A) and type A top enclosure
HLG-40H-48B	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-48D	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A) and type D of dimming control board
HLG-40H-48	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A)
HLG-40H-54A	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A) and type A top enclosure
HLG-40H-54B	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-54D	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A) and type D of dimming control board
HLG-40H-54	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A)
HLG-60H-15A	Identical except for output rating(DC15 V, 4 A) and type A top enclosure
HLG-60H-15B	Identical except for output rating(DC15 V, 4 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-15D	Identical except for output rating(DC15 V, 4 A) and type D of dimming control board
HLG-60H-15	Identical except for output rating(DC15 V, 4 A)
HLG-60H-20A	Identical except for output rating(DC20 V, 3 A) and type A top enclosure
HLG-60H-20B	Identical except for output rating(DC20 V, 3 A), output wire with 18AWG*2C x 2 and type C of dimming control board

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-60H-20D	Identical except for output rating(DC20 V, 3 A) and type D of dimming control board
HLG-60H-20	Identical except for output rating(DC20 V, 3 A)
HLG-60H-24A	Identical except for output rating(DC24 V, 2.5 A) and type A top enclosure
HLG-60H-24B	Identical except for output rating(DC24 V, 2.5 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-24D	Identical except for output rating(DC24 V, 2.5 A) and type D of dimming cont rol board
HLG-60H-24	Identical except for output rating(DC24 V, 2.5 A)
HLG-60H-30A	Identical except for output rating(DC30 V, 2 A) and type A top enclosure
HLG-60H-30B	Identical except for output rating(DC30 V, 2 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-30D	Identical except for output rating(DC30 V, 2 A) and type D of dimming contro l board
HLG-60H-30	Identical except for output rating(DC30 V, 2 A)
HLG-60H-36A	Identical except for output rating(DC36 V, 1.7 A) and type A top enclosure
HLG-60H-36B	Identical except for output rating(DC36 V, 1.7 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-36D	Identical except for output rating(DC36 V, 1.7 A) and type D of dimming cont rol board
HLG-60H-36	Identical except for output rating(DC36 V, 1.7 A)
HLG-60H-42A	Identical except for output rating(DC42 V, 1.45 A) and type A top enclosure
HLG-60H-42B	Identical except for output rating(DC42 V, 1.45 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-42D	Identical except for output rating(DC42 V, 1.45 A) and type D of dimming cont rol board
HLG-60H-42	Identical except for output rating(DC42 V, 1.45 A)
HLG-60H-48A	Identical except for output rating(DC48 V, 1.3 A) and type A top enclosure
HLG-60H-48B	Identical except for output rating(DC48 V, 1.3 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-48D	Identical except for output rating(DC48 V, 1.3 A) and type D of dimming contr ol board
HLG-60H-48	Identical except for output rating(DC48 V, 1.3 A)
HLG-60H-54A	Identical except for output rating(DC54 V, 1.15 A) and type A top enclosure
HLG-60H-54B	Identical except for output rating(DC54 V, 1.15 A), output wire with 18AWG*2C x 2 and type C of dimming control board

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-60H-54D	Identical except for output rating(DC54 V, 1.15 A) and type D of dimming control board

제품특기사항 및 시험조건
Remarks & Test conditions

1. Test Report Ref. No. : 12-041360-01 (2013.03.22.)

2. Product Description

- DC or AC supplied electronic controlgear for LED modules
- 100-240 V~, 50/60 Hz, 0.64 A, 72 W (Output: DC54 V, 1.15 A)
- tc 80 ℃, ta 60 ℃
- Class of equipment : Class I
- Constant voltage type
- Independent controlgear
- IP67
- 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

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□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용
Contents of Certificate Revisions

1st Rev.) Addition of factory (16-015152-14 : 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 (16-067872-19 : 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 (17-051479-01-2 : 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 m m^2

FP511-06

접 수 번 호 (Receipt No.) : 16-067872-19

전 기 용 품 안 전 인 증 서

Electrical Appliances Safety Certificate

안 전 인 증 번 호 (Certificate No.)	:	SZ11007-12001B
제 조 업 자 명 (Manufacturer)	:	MEAN WELL Enterprises Co., Ltd.
대 표 자 명 (President)	:	Mr. Jerry Lin
제조공장의 주소 (Factory Address)	:	No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
제 품 명 (Product)	:	조명기구용컨버터(LED램프용) (Electronic controlgear)
기 본 모 델 명 (Basic Model)	:	HLG-60H-54
정 격 (Rating)	:	AC100-240V, 50/60Hz, 72W (Output: DC54V, 1.15A)
파 생 모 델 명 (Series Model)	:	See the attachment 2
적 용 기 준 (Standard)	:	K61347-1(2010-08), K61347-2-13(2012-12), 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 (Year) 12 월 (month) 08 일 (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. : SZ11007-12001B

다수의 공장 현황
(The status of Multiple Factories)

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

□ 첨부 1 : 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST-Series	T3.15 A, 250 Vac T3.15 A, 300 Vac	VDE
Alt.	Walter	2010-Series	T3.15A, 250 Vac	VDE
Varistor (ZNR1)	Thinking	TVR10361-D, TVR14361-D	230 Vac, 300 Vdc	UL
Alt.		TVR10301-D, TVR14301-D	195 Vac, 250 Vdc	UL
Alt.		TVR10331-D, TVR14331-D	215 Vac, 275 Vdc	UL
Alt.	Centra Science	CNR14D361K	230 Vac, 300 Vdc	UL
Alt.		CNR14D301K	195 Vac, 250 Vdc	UL
Alt.		CNR14D331K	215 Vac, 275 Vdc	UL
Alt.	Joyin	14N301K, 10S301K, 14S301K	195 Vac, 250 Vdc	UL
Alt.		14N331K, 10S331K, 14S331K	215 Vac, 275 Vdc	UL
Alt.		14N361K, 10S361K, 14S361K	230 Vac, 300 Vdc	UL
Bridging capacitors (C31, C32)	Murata	KX, KH	250 Vac, 3300 pF, Y1	VDE
Alt.	Walsin	AC, AH	250 Vac, 3300 pF, Y1	VDE
Alt.	TDK	CD, CS	250 Vac, 3300 pF, Y1	VDE
Alt.	Vishay	440L	250 Vac, 3300 pF, Y1	ENEC
		338 6	250 Vac, 3300 pF, Y1	
X-capacitor (C1)	Kemet	R.46	300 Vac, 0.22 uF, X2	ENEC
Alt.		R.49	310 Vac, 0.22 uF, X2	ENEC
Alt.	Epcos	B3292#...	305 Vac, 0.22 uF, X2	VDE
Alt.	ISKRA	KNB 1530	300 Vac, 0.22 uF, X2	VDE
Alt.		KNB 1560	300 Vac, 0.22 uF, X2	VDE
Alt.	Liow Gu	GS-L	275 Vac, 0.22 uF, 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.	Pilkor	PCX2 335M	275 Vac, 0.22 uF, X2	ENEC
Alt.		PCX2 337	275 Vac, 0.22 uF, X2	VDE
Alt.	Ultra	HQX	275 Vac, 0.22 uF, X2	VDE
Alt.	Cheng Tung	CTX	300 Vac, 0.22 uF, X2	VDE
Y-Capacitor (C3,C4,C30,C129)	Murata	KX, KH	250 Vac, 1000 pF, Y1	VDE
Alt.	Walsin	AC, AH	250 Vac, 1000 pF, Y1	VDE
Alt.	TDK	CD, CS	250 Vac, 1000 pF, Y1	VDE
Alt.	Vishay	440L	250 Vac, 1000 pF, Y1	VDE
		338 6	250 Vac, 1000 pF, Y1	ENEC
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D, JD-E	Min.V-1, 130 ℃	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		
Alt.	JIIN-YU	JY-001		
Alt.	COFAN	003		
Photo Coupler (U2, U3)	Cosmo	K1010	dti=0.7 mm, Int. dcr=5.2 mm Ext. dcr=8 mm, thermal cycling test, 115 ℃	VDE
Alt.	Lite-On	LTV-817 LTV-817M	dti=0.8 mm, Int.dcr=5.2 mm, Ent. dcr=7.8 mm, 100 ℃	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=0.7 mm Int. dcr=5 mm Ext. dcr=8 mm, thermal cycling test, 110 ℃	VDE
Transformer(T1) (For HLG-60H-15z, z=A,D or blank)	Mean Well	TF-2298	Class B	Tested with appliance
Alt.	Long Sail	TF-2298	Class B	Tested with appliance
Alt.	Jet Signal	TF-2298	Class B	Tested with appliance
Alt.	Elytone	TF-2298	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-15B)	Mean Well	TF-2315	Class B	Tested with appliance
Alt.	Long Sail	TF-2315	Class B	Tested with appliance
Alt.	Jet Signal	TF-2315	Class B	Tested with appliance
Alt.	Elytone	TF-2315	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-20z, z=A,D or blank)	Mean Well	TF-2299	Class B	Tested with appliance
Alt.	Long Sail	TF-2299	Class B	Tested with appliance
Alt.	Jet Signal	TF-2299	Class B	Tested with appliance
Alt.	Elytone	TF-2299	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-20B)	Mean Well	TF-2316	Class B	Tested with appliance
Alt.	Long Sail	TF-2316	Class B	Tested with appliance
Alt.	Jet Signal	TF-2316	Class B	Tested with appliance
Alt.	Elytone	TF-2316	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-24z, z=A,D or blank)	Mean Well	TF-2300	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-2300	Class B	Tested with appliance
Alt.	Jet Signal	TF-2300	Class B	Tested with appliance
Alt.	Elytone	TF-2300	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-24B)	Mean Well	TF-2317	Class B	Tested with appliance
Alt.	Long Sail	TF-2317	Class B	Tested with appliance
Alt.	Jet Signal	TF-2317	Class B	Tested with appliance
Alt.	Elytone	TF-2317	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-30z, z=A,D or blank)	Mean Well	TF-2301	Class B	Tested with appliance
Alt.	Long Sail	TF-2301	Class B	Tested with appliance
Alt.	Jet Signal	TF-2301	Class B	Tested with appliance
Alt.	Elytone	TF-2301	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-30B)	Mean Well	TF-2318	Class B	Tested with appliance
Alt.	Long Sail	TF-2318	Class B	Tested with appliance
Alt.	Jet Signal	TF-2318	Class B	Tested with appliance
Alt.	Elytone	TF-2318	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-36z, z=A,D or blank)	Mean Well	TF-2302	Class B	Tested with appliance
Alt.	Long Sail	TF-2302	Class B	Tested with appliance
Alt.	Jet Signal	TF-2302	Class B	Tested with appliance
Alt.	Elytone	TF-2302	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-36B)	Mean Well	TF-2319	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-2319	Class B	Tested with appliance
Alt.	Jet Signal	TF-2319	Class B	Tested with appliance
Alt.	Elytone	TF-2319	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-42z, z=A,D or blank)	Mean Well	TF-2303	Class B	Tested with appliance
Alt.	Long Sail	TF-2303	Class B	Tested with appliance
Alt.	Jet Signal	TF-2303	Class B	Tested with appliance
Alt.	Elytone	TF-2303	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-42B)	Mean Well	TF-2320	Class B	Tested with appliance
Alt.	Long Sail	TF-2320	Class B	Tested with appliance
Alt.	Jet Signal	TF-2320	Class B	Tested with appliance
Alt.	Elytone	TF-2320	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-48z, z=A,D or blank)	Mean Well	TF-2304	Class B	Tested with appliance
Alt.	Long Sail	TF-2304	Class B	Tested with appliance
Alt.	Jet Signal	TF-2304	Class B	Tested with appliance
Alt.	Elytone	TF-2304	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-48B)	Mean Well	TF-2321	Class B	Tested with appliance
Alt.	Long Sail	TF-2321	Class B	Tested with appliance
Alt.	Jet Signal	TF-2321	Class B	Tested with appliance
Alt.	Elytone	TF-2321	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-60H-54z, z=A,D or blank)	Mean Well	TF-2305	Class B	Tested with appliance
Alt.	Long Sail	TF-2305	Class B	Tested with appliance
Alt.	Jet Signal	TF-2305	Class B	Tested with appliance
Alt.	Elytone	TF-2305	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-54B)	Mean Well	TF-2322	Class B	Tested with appliance
Alt.	Long Sail	TF-2322	Class B	Tested with appliance
Alt.	Jet Signal	TF-2322	Class B	Tested with appliance
Alt.	Elytone	TF-2322	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-12z, z=A,D or blank)	Mean Well	TF-2324	Class B	Tested with appliance
Alt.	Long Sail	TF-2324	Class B	Tested with appliance
Alt.	Jet Signal	TF-2324	Class B	Tested with appliance
Alt.	Elytone	TF-2324	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-12B)	Mean Well	TF-2333	Class B	Tested with appliance
Alt.	Long Sail	TF-2333	Class B	Tested with appliance
Alt.	Jet Signal	TF-2333	Class B	Tested with appliance
Alt.	Elytone	TF-2333	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-15z, z=A,D or blank)	Mean Well	TF-2325	Class B	Tested with appliance
Alt.	Long Sail	TF-2325	Class B	Tested with appliance
Alt.	Jet Signal	TF-2325	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-2325	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-15B)	Mean Well	TF-2334	Class B	Tested with appliance
Alt.	Long Sail	TF-2334	Class B	Tested with appliance
Alt.	Jet Signal	TF-2334	Class B	Tested with appliance
Alt.	Elytone	TF-2334	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-20z, z=A,D or blank)	Mean Well	TF-2326	Class B	Tested with appliance
Alt.	Long Sail	TF-2326	Class B	Tested with appliance
Alt.	Jet Signal	TF-2326	Class B	Tested with appliance
Alt.	Elytone	TF-2326	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-20B)	Mean Well	TF-2335	Class B	Tested with appliance
Alt.	Long Sail	TF-2335	Class B	Tested with appliance
Alt.	Jet Signal	TF-2335	Class B	Tested with appliance
Alt.	Elytone	TF-2335	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-24z, z=A,D or blank)	Mean Well	TF-2327	Class B	Tested with appliance
Alt.	Long Sail	TF-2327	Class B	Tested with appliance
Alt.	Jet Signal	TF-2327	Class B	Tested with appliance
Alt.	Elytone	TF-2327	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-24B)	Mean Well	TF-2336	Class B	Tested with appliance
Alt.	Long Sail	TF-2336	Class B	Tested with appliance
Alt.	Jet Signal	TF-2336	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-2336	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-30z, z=A,D or blank)	Mean Well	TF-2328	Class B	Tested with appliance
Alt.	Long Sail	TF-2328	Class B	Tested with appliance
Alt.	Jet Signal	TF-2328	Class B	Tested with appliance
Alt.	Elytone	TF-2328	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-30B)	Mean Well	TF-2337	Class B	Tested with appliance
Alt.	Long Sail	TF-2337	Class B	Tested with appliance
Alt.	Jet Signal	TF-2337	Class B	Tested with appliance
Alt.	Elytone	TF-2337	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-36z, z=A,D or blank)	Mean Well	TF-2329	Class B	Tested with appliance
Alt.	Long Sail	TF-2329	Class B	Tested with appliance
Alt.	Jet Signal	TF-2329	Class B	Tested with appliance
Alt.	Elytone	TF-2329	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-36B)	Mean Well	TF-2338	Class B	Tested with appliance
Alt.	Long Sail	TF-2338	Class B	Tested with appliance
Alt.	Jet Signal	TF-2338	Class B	Tested with appliance
Alt.	Elytone	TF-2338	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-42z, z=A,D or blank)	Mean Well	TF-2330	Class B	Tested with appliance
Alt.	Long Sail	TF-2330	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.	Jet Signal	TF-2330	Class B	Tested with appliance
Alt.	Elytone	TF-2330	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-42B)	Mean Well	TF-2339	Class B	Tested with appliance
Alt.	Long Sail	TF-2339	Class B	Tested with appliance
Alt.	Jet Signal	TF-2339	Class B	Tested with appliance
Alt.	Elytone	TF-2339	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-48z, z=A,D or blank)	Mean Well	TF-2331	Class B	Tested with appliance
Alt.	Long Sail	TF-2331	Class B	Tested with appliance
Alt.	Jet Signal	TF-2331	Class B	Tested with appliance
Alt.	Elytone	TF-2331	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-48B)	Mean Well	TF-2340	Class B	Tested with appliance
Alt.	Long Sail	TF-2340	Class B	Tested with appliance
Alt.	Jet Signal	TF-2340	Class B	Tested with appliance
Alt.	Elytone	TF-2340	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-54z, z=A,D or blank)	Mean Well	TF-2332	Class B	Tested with appliance
Alt.	Long Sail	TF-2332	Class B	Tested with appliance
Alt.	Jet Signal	TF-2332	Class B	Tested with appliance
Alt.	Elytone	TF-2332	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-54B)	Mean Well	TF-2341	Class B	Tested with appliance
Alt.	Long Sail	TF-2341	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.	Jet Signal	TF-2341	Class B	Tested with appliance
Alt.	Elytone	TF-2341	Class B	Tested with appliance
Choke (LF1)	Mean Well	TR-732	130 ℃	Tested with appliance
Choke (LF2)	Mean Well	LF-159A	120 ℃	Tested with appliance
Choke (L1) (For HLG-40H-yz, y=12, 15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TR-1003	130 ℃	Tested with appliance
Choke (L1) (For HLG-60H-yz, y=15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TR-991	130 ℃	Tested with appliance
PFC Choke (L3) (For HLG-40H-yz, y=12, 15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TF-2323	130 ℃	Tested with appliance
PFC Choke (L3) (For HLG-60H-yz, y=15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TF-2296	130 ℃	Tested with appliance
Power Cord	Dongguan Lucky United	K60245 IEC 51 H03RT-H	3C x 0.75 ㎟	KC
Alt.		K60245 IEC 57 H05RN-F	3C x 0.75/1.0 ㎟	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		K60227 IEC 53 H05VV-F	3C x 0.75/1.0/1.5/2.0/2.5 ㎟	KC
Alt.	I-sheng	K60227 IEC 53	3C x 0.75/1.0/1.5/2.5 ㎟	KC
Alt.	Guangdong Rifeng	K60245 IEC 57 H05RN-F	3C x 0.75/1.0/1.5 ㎟	KC
Alt.	Foxconn	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		K60227 IEC 53 H05VV-F	3C x 0.75/1.0 ㎟	KC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Fuyu	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		K60227 IEC 53 H05VV-F	3C x 0.75/1.0 ㎟	KC
Alt.	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75/1.0/1.5/2.0/2.5 ㎟	KC
Alt.	Zheng Yu Electric Appliance	K60245 IEC 57 H05RN-F	3C x 0.75 ㎟	KC
Alt.	Fittings(Kunshan)Co., Ltd.	K60245 IEC 57 H05RN-F	3C x 1.0 ㎟	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 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-40H-12A	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A) and type A top enclosure
HLG-40H-12B	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-12D	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A) and type D of dimming control board
HLG-40H-12	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A)
HLG-40H-15A	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A) and type A top enclosure
HLG-40H-15B	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-15D	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A) and type D of dimming control board
HLG-40H-15	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A)
HLG-40H-20A	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A) and type A top enclosure
HLG-40H-20B	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-20D	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A) and type D of dimming control board
HLG-40H-20	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A)
HLG-40H-24A	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A) and type A top enclosure
HLG-40H-24B	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-24D	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A) and type D of dimming control board
HLG-40H-24	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A)
HLG-40H-30A	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A) and type A top enclosure
HLG-40H-30B	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-30D	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A) and type D of dimming control board
HLG-40H-30	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-40H-36A	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A) and type A top enclosure
HLG-40H-36B	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-36D	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A) and type D of dimming control board
HLG-40H-36	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A)
HLG-40H-42A	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A) and type A top enclosure
HLG-40H-42B	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-42D	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A) and type D of dimming control board
HLG-40H-42	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A)
HLG-40H-48A	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A) and type A top enclosure
HLG-40H-48B	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-48D	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A) and type D of dimming control board
HLG-40H-48	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A)
HLG-40H-54A	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A) and type A top enclosure
HLG-40H-54B	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-54D	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A) and type D of dimming control board
HLG-40H-54	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A)
HLG-60H-15A	Identical except for output rating(DC15 V, 4 A) and type A top enclosure
HLG-60H-15B	Identical except for output rating(DC15 V, 4 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-15D	Identical except for output rating(DC15 V, 4 A) and type D of dimming control board
HLG-60H-15	Identical except for output rating(DC15 V, 4 A)
HLG-60H-20A	Identical except for output rating(DC20 V, 3 A) and type A top enclosure
HLG-60H-20B	Identical except for output rating(DC20 V, 3 A), output wire with 18AWG*2C x 2 and type C of dimming control board

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-60H-20D	Identical except for output rating(DC20 V, 3 A) and type D of dimming control board
HLG-60H-20	Identical except for output rating(DC20 V, 3 A)
HLG-60H-24A	Identical except for output rating(DC24 V, 2.5 A) and type A top enclosure
HLG-60H-24B	Identical except for output rating(DC24 V, 2.5 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-24D	Identical except for output rating(DC24 V, 2.5 A) and type D of dimming control board
HLG-60H-24	Identical except for output rating(DC24 V, 2.5 A)
HLG-60H-30A	Identical except for output rating(DC30 V, 2 A) and type A top enclosure
HLG-60H-30B	Identical except for output rating(DC30 V, 2 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-30D	Identical except for output rating(DC30 V, 2 A) and type D of dimming control board
HLG-60H-30	Identical except for output rating(DC30 V, 2 A)
HLG-60H-36A	Identical except for output rating(DC36 V, 1.7 A) and type A top enclosure
HLG-60H-36B	Identical except for output rating(DC36 V, 1.7 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-36D	Identical except for output rating(DC36 V, 1.7 A) and type D of dimming control board
HLG-60H-36	Identical except for output rating(DC36 V, 1.7 A)
HLG-60H-42A	Identical except for output rating(DC42 V, 1.45 A) and type A top enclosure
HLG-60H-42B	Identical except for output rating(DC42 V, 1.45 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-42D	Identical except for output rating(DC42 V, 1.45 A) and type D of dimming control board
HLG-60H-42	Identical except for output rating(DC42 V, 1.45 A)
HLG-60H-48A	Identical except for output rating(DC48 V, 1.3 A) and type A top enclosure
HLG-60H-48B	Identical except for output rating(DC48 V, 1.3 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-48D	Identical except for output rating(DC48 V, 1.3 A) and type D of dimming control board
HLG-60H-48	Identical except for output rating(DC48 V, 1.3 A)
HLG-60H-54A	Identical except for output rating(DC54 V, 1.15 A) and type A top enclosure
HLG-60H-54B	Identical except for output rating(DC54 V, 1.15 A), output wire with 18AWG*2C x 2 and type C of dimming control board

접 수 번 호 (Receipt No.) : 16-015152-14

전 기 용 품 안 전 인 증 서

Electrical Appliances Safety Certificate

안 전 인 증 번 호 (Certificate No.)	:	SZ11007-12001A
제 조 업 자 명 (Manufacturer)	:	Mean Well Enterprises Co., Ltd.
대 표 자 명 (President)	:	Mr. Jerry Lin
제조공장의 주소 (Factory Address)	:	No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
제 품 명 (Product)	:	조명기구용컨버터(LED램프용) (Electronic controlgear)
기 본 모 델 명 (Basic Model)	:	HLG-60H-54
정 격 (Rating)	:	AC100-240V, 50/60Hz, 72W (Output: DC54V, 1.15A)
파 생 모 델 명 (Series Model)	:	See the attachment 2
적 용 기 준 (Standard)	:	K61347-1(2010-08), K61347-2-13(2012-12), 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 (Year) 03 월 (month) 24 일 (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. : SZ11007-12001A

다수의 공장 현황
(The status of Multiple Factories)

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

☐ 첨부 1 : 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST-Series	T3.15 A, 250 Vac T3.15 A, 300 Vac	VDE
Alt.	Walter	2010-Series	T3.15A, 250 Vac	VDE
Varistor (ZNR1)	Thinking	TVR10361-D, TVR14361-D	230 Vac, 300 Vdc	UL
Alt.		TVR10301-D, TVR14301-D	195 Vac, 250 Vdc	UL
Alt.		TVR10331-D, TVR14331-D	215 Vac, 275 Vdc	UL
Alt.	Centra Science	CNR14D361K	230 Vac, 300 Vdc	UL
Alt.		CNR14D301K	195 Vac, 250 Vdc	UL
Alt.		CNR14D331K	215 Vac, 275 Vdc	UL
Alt.	Joyin	14N301K, 10S301K, 14S301K	195 Vac, 250 Vdc	UL
Alt.		14N331K, 10S331K, 14S331K	215 Vac, 275 Vdc	UL
Alt.		14N361K, 10S361K, 14S361K	230 Vac, 300 Vdc	UL
Bridging capacitors (C31, C32)	Murata	KX, KH	250 Vac, 3300 pF, Y1	VDE
Alt.	Walsin	AC, AH	250 Vac, 3300 pF, Y1	VDE
Alt.	TDK	CD, CS	250 Vac, 3300 pF, Y1	VDE
Alt.	Vishay	440L	250 Vac, 3300 pF, Y1	ENEC
		338 6	250 Vac, 3300 pF, Y1	
X-capacitor (C1)	Kemet	R.46	300 Vac, 0.22 uF, X2	ENEC
Alt.		R.49	310 Vac, 0.22 uF, X2	ENEC
Alt.	Epcos	B3292#...	305 Vac, 0.22 uF, X2	VDE
Alt.	ISKRA	KNB 1530	300 Vac, 0.22 uF, X2	VDE
Alt.		KNB 1560	300 Vac, 0.22 uF, X2	VDE
Alt.	Liow Gu	GS-L	275 Vac, 0.22 uF, 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.	Pilkor	PCX2 335M	275 Vac, 0.22 uF, X2	ENEC
Alt.		PCX2 337	275 Vac, 0.22 uF, X2	VDE
Alt.	Ultra	HQX	275 Vac, 0.22 uF, X2	VDE
Alt.	Cheng Tung	CTX	300 Vac, 0.22 uF, X2	VDE
Y-Capacitor (C3,C4,C30,C129)	Murata	KX, KH	250 Vac, 1000 pF, Y1	VDE
Alt.	Walsin	AC, AH	250 Vac, 1000 pF, Y1	VDE
Alt.	TDK	CD, CS	250 Vac, 1000 pF, Y1	VDE
Alt.	Vishay	440L	250 Vac, 1000 pF, Y1	VDE
		338 6	250 Vac, 1000 pF, Y1	ENEC
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D, JD-E	Min.V-1, 130 ℃	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		
Alt.	JIIN-YU	JY-001		
Alt.	COFAN	003		
Photo Coupler (U2, U3)	Cosmo	K1010	dti=0.7 mm, Int. dcr=5.2 mm Ext. dcr=8 mm, thermal cycling test, 115 ℃	VDE
Alt.	Lite-On	LTV-817 LTV-817M	dti=0.8 mm, Int.dcr=5.2 mm, Ent. dcr=7.8 mm, 100 ℃	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=0.7 mm Int. dcr=5 mm Ext. dcr=8 mm, thermal cycling test, 110 ℃	VDE
Transformer(T1) (For HLG-60H-15z, z=A,D or blank)	Mean Well	TF-2298	Class B	Tested with appliance
Alt.	Long Sail	TF-2298	Class B	Tested with appliance
Alt.	Jet Signal	TF-2298	Class B	Tested with appliance
Alt.	Elytone	TF-2298	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-15B)	Mean Well	TF-2315	Class B	Tested with appliance
Alt.	Long Sail	TF-2315	Class B	Tested with appliance
Alt.	Jet Signal	TF-2315	Class B	Tested with appliance
Alt.	Elytone	TF-2315	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-20z, z=A,D or blank)	Mean Well	TF-2299	Class B	Tested with appliance
Alt.	Long Sail	TF-2299	Class B	Tested with appliance
Alt.	Jet Signal	TF-2299	Class B	Tested with appliance
Alt.	Elytone	TF-2299	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-20B)	Mean Well	TF-2316	Class B	Tested with appliance
Alt.	Long Sail	TF-2316	Class B	Tested with appliance
Alt.	Jet Signal	TF-2316	Class B	Tested with appliance
Alt.	Elytone	TF-2316	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-24z, z=A,D or blank)	Mean Well	TF-2300	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-2300	Class B	Tested with appliance
Alt.	Jet Signal	TF-2300	Class B	Tested with appliance
Alt.	Elytone	TF-2300	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-24B)	Mean Well	TF-2317	Class B	Tested with appliance
Alt.	Long Sail	TF-2317	Class B	Tested with appliance
Alt.	Jet Signal	TF-2317	Class B	Tested with appliance
Alt.	Elytone	TF-2317	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-30z, z=A,D or blank)	Mean Well	TF-2301	Class B	Tested with appliance
Alt.	Long Sail	TF-2301	Class B	Tested with appliance
Alt.	Jet Signal	TF-2301	Class B	Tested with appliance
Alt.	Elytone	TF-2301	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-30B)	Mean Well	TF-2318	Class B	Tested with appliance
Alt.	Long Sail	TF-2318	Class B	Tested with appliance
Alt.	Jet Signal	TF-2318	Class B	Tested with appliance
Alt.	Elytone	TF-2318	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-36z, z=A,D or blank)	Mean Well	TF-2302	Class B	Tested with appliance
Alt.	Long Sail	TF-2302	Class B	Tested with appliance
Alt.	Jet Signal	TF-2302	Class B	Tested with appliance
Alt.	Elytone	TF-2302	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-36B)	Mean Well	TF-2319	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-2319	Class B	Tested with appliance
Alt.	Jet Signal	TF-2319	Class B	Tested with appliance
Alt.	Elytone	TF-2319	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-42z, z=A,D or blank)	Mean Well	TF-2303	Class B	Tested with appliance
Alt.	Long Sail	TF-2303	Class B	Tested with appliance
Alt.	Jet Signal	TF-2303	Class B	Tested with appliance
Alt.	Elytone	TF-2303	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-42B)	Mean Well	TF-2320	Class B	Tested with appliance
Alt.	Long Sail	TF-2320	Class B	Tested with appliance
Alt.	Jet Signal	TF-2320	Class B	Tested with appliance
Alt.	Elytone	TF-2320	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-48z, z=A,D or blank)	Mean Well	TF-2304	Class B	Tested with appliance
Alt.	Long Sail	TF-2304	Class B	Tested with appliance
Alt.	Jet Signal	TF-2304	Class B	Tested with appliance
Alt.	Elytone	TF-2304	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-48B)	Mean Well	TF-2321	Class B	Tested with appliance
Alt.	Long Sail	TF-2321	Class B	Tested with appliance
Alt.	Jet Signal	TF-2321	Class B	Tested with appliance
Alt.	Elytone	TF-2321	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-60H-54z, z=A,D or blank)	Mean Well	TF-2305	Class B	Tested with appliance
Alt.	Long Sail	TF-2305	Class B	Tested with appliance
Alt.	Jet Signal	TF-2305	Class B	Tested with appliance
Alt.	Elytone	TF-2305	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-54B)	Mean Well	TF-2322	Class B	Tested with appliance
Alt.	Long Sail	TF-2322	Class B	Tested with appliance
Alt.	Jet Signal	TF-2322	Class B	Tested with appliance
Alt.	Elytone	TF-2322	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-12z, z=A,D or blank)	Mean Well	TF-2324	Class B	Tested with appliance
Alt.	Long Sail	TF-2324	Class B	Tested with appliance
Alt.	Jet Signal	TF-2324	Class B	Tested with appliance
Alt.	Elytone	TF-2324	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-12B)	Mean Well	TF-2333	Class B	Tested with appliance
Alt.	Long Sail	TF-2333	Class B	Tested with appliance
Alt.	Jet Signal	TF-2333	Class B	Tested with appliance
Alt.	Elytone	TF-2333	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-15z, z=A,D or blank)	Mean Well	TF-2325	Class B	Tested with appliance
Alt.	Long Sail	TF-2325	Class B	Tested with appliance
Alt.	Jet Signal	TF-2325	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-2325	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-15B)	Mean Well	TF-2334	Class B	Tested with appliance
Alt.	Long Sail	TF-2334	Class B	Tested with appliance
Alt.	Jet Signal	TF-2334	Class B	Tested with appliance
Alt.	Elytone	TF-2334	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-20z, z=A,D or blank)	Mean Well	TF-2326	Class B	Tested with appliance
Alt.	Long Sail	TF-2326	Class B	Tested with appliance
Alt.	Jet Signal	TF-2326	Class B	Tested with appliance
Alt.	Elytone	TF-2326	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-20B)	Mean Well	TF-2335	Class B	Tested with appliance
Alt.	Long Sail	TF-2335	Class B	Tested with appliance
Alt.	Jet Signal	TF-2335	Class B	Tested with appliance
Alt.	Elytone	TF-2335	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-24z, z=A,D or blank)	Mean Well	TF-2327	Class B	Tested with appliance
Alt.	Long Sail	TF-2327	Class B	Tested with appliance
Alt.	Jet Signal	TF-2327	Class B	Tested with appliance
Alt.	Elytone	TF-2327	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-24B)	Mean Well	TF-2336	Class B	Tested with appliance
Alt.	Long Sail	TF-2336	Class B	Tested with appliance
Alt.	Jet Signal	TF-2336	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-2336	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-30z, z=A,D or blank)	Mean Well	TF-2328	Class B	Tested with appliance
Alt.	Long Sail	TF-2328	Class B	Tested with appliance
Alt.	Jet Signal	TF-2328	Class B	Tested with appliance
Alt.	Elytone	TF-2328	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-30B)	Mean Well	TF-2337	Class B	Tested with appliance
Alt.	Long Sail	TF-2337	Class B	Tested with appliance
Alt.	Jet Signal	TF-2337	Class B	Tested with appliance
Alt.	Elytone	TF-2337	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-36z, z=A,D or blank)	Mean Well	TF-2329	Class B	Tested with appliance
Alt.	Long Sail	TF-2329	Class B	Tested with appliance
Alt.	Jet Signal	TF-2329	Class B	Tested with appliance
Alt.	Elytone	TF-2329	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-36B)	Mean Well	TF-2338	Class B	Tested with appliance
Alt.	Long Sail	TF-2338	Class B	Tested with appliance
Alt.	Jet Signal	TF-2338	Class B	Tested with appliance
Alt.	Elytone	TF-2338	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-42z, z=A,D or blank)	Mean Well	TF-2330	Class B	Tested with appliance
Alt.	Long Sail	TF-2330	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.	Jet Signal	TF-2330	Class B	Tested with appliance
Alt.	Elytone	TF-2330	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-42B)	Mean Well	TF-2339	Class B	Tested with appliance
Alt.	Long Sail	TF-2339	Class B	Tested with appliance
Alt.	Jet Signal	TF-2339	Class B	Tested with appliance
Alt.	Elytone	TF-2339	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-48z, z=A,D or blank)	Mean Well	TF-2331	Class B	Tested with appliance
Alt.	Long Sail	TF-2331	Class B	Tested with appliance
Alt.	Jet Signal	TF-2331	Class B	Tested with appliance
Alt.	Elytone	TF-2331	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-48B)	Mean Well	TF-2340	Class B	Tested with appliance
Alt.	Long Sail	TF-2340	Class B	Tested with appliance
Alt.	Jet Signal	TF-2340	Class B	Tested with appliance
Alt.	Elytone	TF-2340	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-54z, z=A,D or blank)	Mean Well	TF-2332	Class B	Tested with appliance
Alt.	Long Sail	TF-2332	Class B	Tested with appliance
Alt.	Jet Signal	TF-2332	Class B	Tested with appliance
Alt.	Elytone	TF-2332	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-54B)	Mean Well	TF-2341	Class B	Tested with appliance
Alt.	Long Sail	TF-2341	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.	Jet Signal	TF-2341	Class B	Tested with appliance
Alt.	Elytone	TF-2341	Class B	Tested with appliance
Choke (LF1)	Mean Well	TR-732	130 ℃	Tested with appliance
Choke (LF2)	Mean Well	LF-159A	120 ℃	Tested with appliance
Choke (L1) (For HLG-40H-yz, y=12, 15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TR-1003	130 ℃	Tested with appliance
Choke (L1) (For HLG-60H-yz, y=15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TR-991	130 ℃	Tested with appliance
PFC Choke (L3) (For HLG-40H-yz, y=12, 15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TF-2323	130 ℃	Tested with appliance
PFC Choke (L3) (For HLG-60H-yz, y=15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TF-2296	130 ℃	Tested with appliance
Power Cord	Dongguan Lucky United	K60245 IEC 51 H03RT-H	3C x 0.75 ㎟	KC
Alt.		K60245 IEC 57 H05RN-F	3C x 0.75/1.0 ㎟	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		K60227 IEC 53 H05VV-F	3C x 0.75/1.0/1.5/2.0/2.5 ㎟	KC
Alt.	I-sheng	K60227 IEC 53	3C x 0.75/1.0/1.5/2.5 ㎟	KC
Alt.	Guangdong Rifeng	K60245 IEC 57 H05RN-F	3C x 0.75/1.0/1.5 ㎟	KC
Alt.	Foxconn	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		K60227 IEC 53 H05VV-F	3C x 0.75/1.0 ㎟	KC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Fuyu	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		K60227 IEC 53 H05VV-F	3C x 0.75/1.0 ㎟	KC
Alt.	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75/1.0/1.5/2.0/2.5 ㎟	KC
Alt.	Zheng Yu Electric Appliance	K60245 IEC 57 H05RN-F	3C x 0.75 ㎟	KC
Alt.	Fittings(Kunshan)Co.. Ltd.	K60245 IEC 57 H05RN-F	3C x 1.0 ㎟	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 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-40H-12A	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A) and type A top enclosure
HLG-40H-12B	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-12D	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A) and type D of dimming control board
HLG-40H-12	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A)
HLG-40H-15A	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A) and type A top enclosure
HLG-40H-15B	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-15D	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A) and type D of dimming control board
HLG-40H-15	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A)
HLG-40H-20A	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A) and type A top enclosure
HLG-40H-20B	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-20D	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A) and type D of dimming control board
HLG-40H-20	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A)
HLG-40H-24A	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A) and type A top enclosure
HLG-40H-24B	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-24D	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A) and type D of dimming control board
HLG-40H-24	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A)
HLG-40H-30A	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A) and type A top enclosure
HLG-40H-30B	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-30D	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A) and type D of dimming control board
HLG-40H-30	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-40H-36A	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A) and type A top enclosure
HLG-40H-36B	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-36D	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A) and type D of dimming control board
HLG-40H-36	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A)
HLG-40H-42A	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A) and type A top enclosure
HLG-40H-42B	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-42D	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A) and type D of dimming control board
HLG-40H-42	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A)
HLG-40H-48A	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A) and type A top enclosure
HLG-40H-48B	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-48D	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A) and type D of dimming control board
HLG-40H-48	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A)
HLG-40H-54A	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A) and type A top enclosure
HLG-40H-54B	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-54D	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A) and type D of dimming control board
HLG-40H-54	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A)
HLG-60H-15A	Identical except for output rating(DC15 V, 4 A) and type A top enclosure
HLG-60H-15B	Identical except for output rating(DC15 V, 4 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-15D	Identical except for output rating(DC15 V, 4 A) and type D of dimming control board
HLG-60H-15	Identical except for output rating(DC15 V, 4 A)
HLG-60H-20A	Identical except for output rating(DC20 V, 3 A) and type A top enclosure
HLG-60H-20B	Identical except for output rating(DC20 V, 3 A), output wire with 18AWG*2C x 2 and type C of dimming control board

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-60H-20D	Identical except for output rating(DC20 V, 3 A) and type D of dimming control board
HLG-60H-20	Identical except for output rating(DC20 V, 3 A)
HLG-60H-24A	Identical except for output rating(DC24 V, 2.5 A) and type A top enclosure
HLG-60H-24B	Identical except for output rating(DC24 V, 2.5 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-24D	Identical except for output rating(DC24 V, 2.5 A) and type D of dimming control board
HLG-60H-24	Identical except for output rating(DC24 V, 2.5 A)
HLG-60H-30A	Identical except for output rating(DC30 V, 2 A) and type A top enclosure
HLG-60H-30B	Identical except for output rating(DC30 V, 2 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-30D	Identical except for output rating(DC30 V, 2 A) and type D of dimming control board
HLG-60H-30	Identical except for output rating(DC30 V, 2 A)
HLG-60H-36A	Identical except for output rating(DC36 V, 1.7 A) and type A top enclosure
HLG-60H-36B	Identical except for output rating(DC36 V, 1.7 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-36D	Identical except for output rating(DC36 V, 1.7 A) and type D of dimming control board
HLG-60H-36	Identical except for output rating(DC36 V, 1.7 A)
HLG-60H-42A	Identical except for output rating(DC42 V, 1.45 A) and type A top enclosure
HLG-60H-42B	Identical except for output rating(DC42 V, 1.45 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-42D	Identical except for output rating(DC42 V, 1.45 A) and type D of dimming control board
HLG-60H-42	Identical except for output rating(DC42 V, 1.45 A)
HLG-60H-48A	Identical except for output rating(DC48 V, 1.3 A) and type A top enclosure
HLG-60H-48B	Identical except for output rating(DC48 V, 1.3 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-48D	Identical except for output rating(DC48 V, 1.3 A) and type D of dimming control board
HLG-60H-48	Identical except for output rating(DC48 V, 1.3 A)
HLG-60H-54A	Identical except for output rating(DC54 V, 1.15 A) and type A top enclosure
HLG-60H-54B	Identical except for output rating(DC54 V, 1.15 A), output wire with 18AWG*2C x 2 and type C of dimming control board

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-60H-54D	Identical except for output rating(DC54 V, 1.15 A) and type D of dimming control board

제품특기사항 및 시험조건 Remarks & Test conditions
1. Test Report Ref. No. : 12-041360-01 (2013.03.22.) 2. Product Description - DC or AC supplied electronic controlgear for LED modules - 100-240 V~, 50/60 Hz, 0.64 A, 72 W (Output: DC54 V, 1.15 A) - tc 80 ℃, ta 60 ℃ - Class of equipment : Class I - Constant voltage type - Independent controlgear - IP67 - 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 (16-015152-14 : 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

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-60H-54D	Identical except for output rating(DC54 V, 1.15 A) and type D of dimming control board

제품특기사항 및 시험조건
Remarks & Test conditions

1. Test Report Ref. No. : 12-041360-01 (2013.03.22.)

2. Product Description

- DC or AC supplied electronic controlgear for LED modules
- 100-240 V~, 50/60 Hz, 0.64 A, 72 W (Output: DC54 V, 1.15 A)
- tc 80 ℃, ta 60 ℃
- Class of equipment : Class I
- Constant voltage type
- Independent controlgear
- IP67
- 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
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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 (16-015152-14 : 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 (16-067872-19 : 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.) : 12-041360-01

전 기 용 품 안 전 인 증 서

Electrical Appliances Safety Certificate

안 전 인 증 번 호 (Certificate No.)	:	SZ11007-12001
제 조 업 자 명 (Factory)	:	Mean Well Enterprises Co., Ltd.
대 표 자 명 (President)	:	Mr. Jerry Lin
제 조 공 장 의 소 재 지 (Factory Address)	:	No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
제 품 명 (Product)	:	조명기구용컨버터(LED램프용)
기 본 모 델 명 (Basic Model)	:	HLG-60H-54
정 격 (Rating)	:	AC100-240V, 50/60Hz, 72W (Output: DC54V, 1.15A)
파 생 모 델 명 (Series Model)	:	See the attachment 2
적 용 기 준 (Standard)	:	K61347-1(2010-08), K61347-2-13(2012-12), 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.

2013년 03월 29일

ktl 한국산업기술시험원장

KOREA TESTING LABORATORY

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

첨 부 : (Annex)

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

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

□ 첨부 1 : 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST-Series	T3.15 A, 250 Vac T3.15 A, 300 Vac	VDE
Alt.	Walter	2010-Series	T3.15A, 250 Vac	VDE
Varistor (ZNR1)	Thinking	TVR10361-D, TVR14361-D	230 Vac, 300 Vdc	UL
Alt.		TVR10301-D, TVR14301-D	195 Vac, 250 Vdc	UL
Alt.		TVR10331-D, TVR14331-D	215 Vac, 275 Vdc	UL
Alt.	Centra Science	CNR14D361K	230 Vac, 300 Vdc	UL
Alt.		CNR14D301K	195 Vac, 250 Vdc	UL
Alt.		CNR14D331K	215 Vac, 275 Vdc	UL
Alt.	Joyin	14N301K, 10S301K, 14S301K	195 Vac, 250 Vdc	UL
Alt.		14N331K, 10S331K, 14S331K	215 Vac, 275 Vdc	UL
Alt.		14N361K, 10S361K, 14S361K	230 Vac, 300 Vdc	UL
Bridging capacitors (C 31, C32)	Murata	KX, KH	250 Vac, 3300 pF, Y1	VDE
Alt.	Walsin	AC, AH	250 Vac, 3300 pF, Y1	VDE
Alt.	TDK	CD, CS	250 Vac, 3300 pF, Y1	VDE
Alt.	Vishay	440L	250 Vac, 3300 pF, Y1	ENEC
		338 6	250 Vac, 3300 pF, Y1	
X-capacitor (C1)	Kemet	R.46	300 Vac, 0.22 uF, X2	ENEC
Alt.		R.49	310 Vac, 0.22 uF, X2	ENEC
Alt.	Epcos	B3292#...	305 Vac, 0.22 uF, X2	VDE
Alt.	ISKRA	KNB 1530	300 Vac, 0.22 uF, X2	VDE
Alt.		KNB 1560	300 Vac, 0.22 uF, X2	VDE
Alt.	Liow Gu	GS-L	275 Vac, 0.22 uF, 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.	Pilkor	PCX2 335M	275 Vac, 0.22 uF, X2	ENEC
Alt.		PCX2 337	275 Vac, 0.22 uF, X2	VDE
Alt.	Ultra	HQX	275 Vac, 0.22 uF, X2	VDE
Alt.	Cheng Tung	CTX	300 Vac, 0.22 uF, X2	VDE
Y-Capacitor (C3,C4,C30,C129)	Murata	KX, KH	250 Vac, 1000 pF, Y1	VDE
Alt.	Walsin	AC, AH	250 Vac, 1000 pF, Y1	VDE
Alt.	TDK	CD, CS	250 Vac, 1000 pF, Y1	VDE
Alt.	Vishay	440L	250 Vac, 1000 pF, Y1	VDE
		338 6	250 Vac, 1000 pF, Y1	ENEC
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D, JD-E	Min.V-1, 130 ℃	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		
Alt.	JIIN-YU	JY-001		
Alt.	COFAN	003		
Photo Coupler (U2, U3)	Cosmo	K1010	dti=0.7 mm, Int. dcr=5.2 mm Ext. dcr=8 mm, thermal cycling test, 115 ℃	VDE
Alt.	Lite-On	LTV-817 LTV-817M	dti=0.8 mm, Int.dcr=5.2 mm, Ent. dcr=7.8 mm, 100 ℃	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=0.7 mm Int. dcr=5 mm Ext. dcr=8 mm, thermal cycling test, 110 ℃	VDE
Transformer(T1) (For HLG-60H-15z, z=A,D or blank)	Mean Well	TF-2298	Class B	Tested with appliance
Alt.	Long Sail	TF-2298	Class B	Tested with appliance
Alt.	Jet Signal	TF-2298	Class B	Tested with appliance
Alt.	Elytone	TF-2298	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-15B)	Mean Well	TF-2315	Class B	Tested with appliance
Alt.	Long Sail	TF-2315	Class B	Tested with appliance
Alt.	Jet Signal	TF-2315	Class B	Tested with appliance
Alt.	Elytone	TF-2315	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-20z, z=A,D or blank)	Mean Well	TF-2299	Class B	Tested with appliance
Alt.	Long Sail	TF-2299	Class B	Tested with appliance
Alt.	Jet Signal	TF-2299	Class B	Tested with appliance
Alt.	Elytone	TF-2299	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-20B)	Mean Well	TF-2316	Class B	Tested with appliance
Alt.	Long Sail	TF-2316	Class B	Tested with appliance
Alt.	Jet Signal	TF-2316	Class B	Tested with appliance
Alt.	Elytone	TF-2316	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-24z, z=A,D or blank)	Mean Well	TF-2300	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-2300	Class B	Tested with appliance
Alt.	Jet Signal	TF-2300	Class B	Tested with appliance
Alt.	Elytone	TF-2300	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-24B)	Mean Well	TF-2317	Class B	Tested with appliance
Alt.	Long Sail	TF-2317	Class B	Tested with appliance
Alt.	Jet Signal	TF-2317	Class B	Tested with appliance
Alt.	Elytone	TF-2317	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-30z, z=A,D or blank)	Mean Well	TF-2301	Class B	Tested with appliance
Alt.	Long Sail	TF-2301	Class B	Tested with appliance
Alt.	Jet Signal	TF-2301	Class B	Tested with appliance
Alt.	Elytone	TF-2301	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-30B)	Mean Well	TF-2318	Class B	Tested with appliance
Alt.	Long Sail	TF-2318	Class B	Tested with appliance
Alt.	Jet Signal	TF-2318	Class B	Tested with appliance
Alt.	Elytone	TF-2318	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-36z, z=A,D or blank)	Mean Well	TF-2302	Class B	Tested with appliance
Alt.	Long Sail	TF-2302	Class B	Tested with appliance
Alt.	Jet Signal	TF-2302	Class B	Tested with appliance
Alt.	Elytone	TF-2302	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-36B)	Mean Well	TF-2319	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-2319	Class B	Tested with appliance
Alt.	Jet Signal	TF-2319	Class B	Tested with appliance
Alt.	Elytone	TF-2319	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-42z, z=A,D or blank)	Mean Well	TF-2303	Class B	Tested with appliance
Alt.	Long Sail	TF-2303	Class B	Tested with appliance
Alt.	Jet Signal	TF-2303	Class B	Tested with appliance
Alt.	Elytone	TF-2303	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-42B)	Mean Well	TF-2320	Class B	Tested with appliance
Alt.	Long Sail	TF-2320	Class B	Tested with appliance
Alt.	Jet Signal	TF-2320	Class B	Tested with appliance
Alt.	Elytone	TF-2320	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-48z, z=A,D or blank)	Mean Well	TF-2304	Class B	Tested with appliance
Alt.	Long Sail	TF-2304	Class B	Tested with appliance
Alt.	Jet Signal	TF-2304	Class B	Tested with appliance
Alt.	Elytone	TF-2304	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-48B)	Mean Well	TF-2321	Class B	Tested with appliance
Alt.	Long Sail	TF-2321	Class B	Tested with appliance
Alt.	Jet Signal	TF-2321	Class B	Tested with appliance
Alt.	Elytone	TF-2321	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-60H-54z, z=A,D or blank)	Mean Well	TF-2305	Class B	Tested with appliance
Alt.	Long Sail	TF-2305	Class B	Tested with appliance
Alt.	Jet Signal	TF-2305	Class B	Tested with appliance
Alt.	Elytone	TF-2305	Class B	Tested with appliance
Transformer(T1) (For HLG-60H-54B)	Mean Well	TF-2322	Class B	Tested with appliance
Alt.	Long Sail	TF-2322	Class B	Tested with appliance
Alt.	Jet Signal	TF-2322	Class B	Tested with appliance
Alt.	Elytone	TF-2322	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-12z, z=A,D or blank)	Mean Well	TF-2324	Class B	Tested with appliance
Alt.	Long Sail	TF-2324	Class B	Tested with appliance
Alt.	Jet Signal	TF-2324	Class B	Tested with appliance
Alt.	Elytone	TF-2324	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-12B)	Mean Well	TF-2333	Class B	Tested with appliance
Alt.	Long Sail	TF-2333	Class B	Tested with appliance
Alt.	Jet Signal	TF-2333	Class B	Tested with appliance
Alt.	Elytone	TF-2333	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-15z, z=A,D or blank)	Mean Well	TF-2325	Class B	Tested with appliance
Alt.	Long Sail	TF-2325	Class B	Tested with appliance
Alt.	Jet Signal	TF-2325	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-2325	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-15B)	Mean Well	TF-2334	Class B	Tested with appliance
Alt.	Long Sail	TF-2334	Class B	Tested with appliance
Alt.	Jet Signal	TF-2334	Class B	Tested with appliance
Alt.	Elytone	TF-2334	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-20z, z=A,D or blank)	Mean Well	TF-2326	Class B	Tested with appliance
Alt.	Long Sail	TF-2326	Class B	Tested with appliance
Alt.	Jet Signal	TF-2326	Class B	Tested with appliance
Alt.	Elytone	TF-2326	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-20B)	Mean Well	TF-2335	Class B	Tested with appliance
Alt.	Long Sail	TF-2335	Class B	Tested with appliance
Alt.	Jet Signal	TF-2335	Class B	Tested with appliance
Alt.	Elytone	TF-2335	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-24z, z=A,D or blank)	Mean Well	TF-2327	Class B	Tested with appliance
Alt.	Long Sail	TF-2327	Class B	Tested with appliance
Alt.	Jet Signal	TF-2327	Class B	Tested with appliance
Alt.	Elytone	TF-2327	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-24B)	Mean Well	TF-2336	Class B	Tested with appliance
Alt.	Long Sail	TF-2336	Class B	Tested with appliance
Alt.	Jet Signal	TF-2336	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-2336	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-30z, z=A,D or blank)	Mean Well	TF-2328	Class B	Tested with appliance
Alt.	Long Sail	TF-2328	Class B	Tested with appliance
Alt.	Jet Signal	TF-2328	Class B	Tested with appliance
Alt.	Elytone	TF-2328	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-30B)	Mean Well	TF-2337	Class B	Tested with appliance
Alt.	Long Sail	TF-2337	Class B	Tested with appliance
Alt.	Jet Signal	TF-2337	Class B	Tested with appliance
Alt.	Elytone	TF-2337	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-36z, z=A,D or blank)	Mean Well	TF-2329	Class B	Tested with appliance
Alt.	Long Sail	TF-2329	Class B	Tested with appliance
Alt.	Jet Signal	TF-2329	Class B	Tested with appliance
Alt.	Elytone	TF-2329	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-36B)	Mean Well	TF-2338	Class B	Tested with appliance
Alt.	Long Sail	TF-2338	Class B	Tested with appliance
Alt.	Jet Signal	TF-2338	Class B	Tested with appliance
Alt.	Elytone	TF-2338	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-42z, z=A,D or blank)	Mean Well	TF-2330	Class B	Tested with appliance
Alt.	Long Sail	TF-2330	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.	Jet Signal	TF-2330	Class B	Tested with appliance
Alt.	Elytone	TF-2330	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-42B)	Mean Well	TF-2339	Class B	Tested with appliance
Alt.	Long Sail	TF-2339	Class B	Tested with appliance
Alt.	Jet Signal	TF-2339	Class B	Tested with appliance
Alt.	Elytone	TF-2339	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-48z, z=A,D or blank)	Mean Well	TF-2331	Class B	Tested with appliance
Alt.	Long Sail	TF-2331	Class B	Tested with appliance
Alt.	Jet Signal	TF-2331	Class B	Tested with appliance
Alt.	Elytone	TF-2331	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-48B)	Mean Well	TF-2340	Class B	Tested with appliance
Alt.	Long Sail	TF-2340	Class B	Tested with appliance
Alt.	Jet Signal	TF-2340	Class B	Tested with appliance
Alt.	Elytone	TF-2340	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-54z, z=A,D or blank)	Mean Well	TF-2332	Class B	Tested with appliance
Alt.	Long Sail	TF-2332	Class B	Tested with appliance
Alt.	Jet Signal	TF-2332	Class B	Tested with appliance
Alt.	Elytone	TF-2332	Class B	Tested with appliance
Transformer(T1) (For HLG-40H-54B)	Mean Well	TF-2341	Class B	Tested with appliance
Alt.	Long Sail	TF-2341	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.	Jet Signal	TF-2341	Class B	Tested with appliance
Alt.	Elytone	TF-2341	Class B	Tested with appliance
Choke (LF1)	Mean Well	TR-732	130 ℃	Tested with appliance
Choke (LF2)	Mean Well	LF-159A	120 ℃	Tested with appliance
Choke (L1) (For HLG-40H-yz, y=12, 15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TR-1003	130 ℃	Tested with appliance
Choke (L1) (For HLG-60H-yz, y=15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TR-991	130 ℃	Tested with appliance
PFC Choke (L3) (For HLG-40H-yz, y=12, 15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TF-2323	130 ℃	Tested with appliance
PFC Choke (L3) (For HLG-60H-yz, y=15, 20, 24, 30, 36, 42, 48 or 54 z=A,B,D or blank)	Mean Well	TF-2296	130 ℃	Tested with appliance
Power Cord	Dongguan Lucky United	K60245 IEC 51 H03RT-H	3C x 0.75 ㎟	KC
Alt.		K60245 IEC 57 H05RN-F	3C x 0.75/1.0 ㎟	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		K60227 IEC 53 H05VV-F	3C x 0.75/1.0/1.5/2.0/2.5 ㎟	KC
Alt.	I-sheng	K60227 IEC 53	3C x 0.75/1.0/1.5/2.5 ㎟	KC
Alt.	Guangdong Rifeng	K60245 IEC 57 H05RN-F	3C x 0.75/1.0/1.5 ㎟	KC
Alt.	Foxconn	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		K60227 IEC 53 H05VV-F	3C x 0.75/1.0 ㎟	KC

부품명(회로기호) Component(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Fuyu	K60227 IEC 52 H03VV-F	3C x 0.75 ㎟	KC
Alt.		K60227 IEC 53 H05VV-F	3C x 0.75/1.0 ㎟	KC
Alt.	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75/1.0/1.5/2.0/2.5 ㎟	KC
Alt.	Zheng Yu Electric Appliance	K60245 IEC 57 H05RN-F	3C x 0.75 ㎟	KC
Alt.	Fittings(Kunshan)Co., Ltd.	K60245 IEC 57 H05RN-F	3C x 1.0 ㎟	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 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-40H-12A	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A) and type A top enclosure
HLG-40H-12B	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-12D	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A) and type D of dimming control board
HLG-40H-12	Identical except for rated wattage(50 W), output rating (DC12 V, 3.33 A)
HLG-40H-15A	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A) and type A top enclosure
HLG-40H-15B	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-15D	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A) and type D of dimming control board
HLG-40H-15	Identical except for rated wattage(50 W), output rating (DC15 V, 2.67 A)
HLG-40H-20A	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A) and type A top enclosure
HLG-40H-20B	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-20D	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A) and type D of dimming control board
HLG-40H-20	Identical except for rated wattage(50 W), output rating (DC20 V, 2 A)
HLG-40H-24A	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A) and type A top enclosure
HLG-40H-24B	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-24D	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A) and type D of dimming control board
HLG-40H-24	Identical except for rated wattage(50 W), output rating (DC24 V, 1.67 A)
HLG-40H-30A	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A) and type A top enclosure
HLG-40H-30B	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-30D	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A) and type D of dimming control board
HLG-40H-30	Identical except for rated wattage(50 W), output rating (DC30 V, 1.34 A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-40H-36A	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A) and type A top enclosure
HLG-40H-36B	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-36D	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A) and type D of dimming control board
HLG-40H-36	Identical except for rated wattage(50 W), output rating (DC36 V, 1.12 A)
HLG-40H-42A	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A) and type A top enclosure
HLG-40H-42B	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-42D	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A) and type D of dimming control board
HLG-40H-42	Identical except for rated wattage(50 W), output rating (DC42 V, 0.96 A)
HLG-40H-48A	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A) and type A top enclosure
HLG-40H-48B	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-48D	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A) and type D of dimming control board
HLG-40H-48	Identical except for rated wattage(50 W), output rating (DC48 V, 0.84 A)
HLG-40H-54A	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A) and type A top enclosure
HLG-40H-54B	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-40H-54D	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A) and type D of dimming control board
HLG-40H-54	Identical except for rated wattage(50 W), output rating (DC54 V, 0.75 A)
HLG-60H-15A	Identical except for output rating(DC15 V, 4 A) and type A top enclosure
HLG-60H-15B	Identical except for output rating(DC15 V, 4 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-15D	Identical except for output rating(DC15 V, 4 A) and type D of dimming control board
HLG-60H-15	Identical except for output rating(DC15 V, 4 A)
HLG-60H-20A	Identical except for output rating(DC20 V, 3 A) and type A top enclosure
HLG-60H-20B	Identical except for output rating(DC20 V, 3 A), output wire with 18AWG*2C x 2 and type C of dimming control board

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-60H-20D	Identical except for output rating(DC20 V, 3 A) and type D of dimming control board
HLG-60H-20	Identical except for output rating(DC20 V, 3 A)
HLG-60H-24A	Identical except for output rating(DC24 V, 2.5 A) and type A top enclosure
HLG-60H-24B	Identical except for output rating(DC24 V, 2.5 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-24D	Identical except for output rating(DC24 V, 2.5 A) and type D of dimming control board
HLG-60H-24	Identical except for output rating(DC24 V, 2.5 A)
HLG-60H-30A	Identical except for output rating(DC30 V, 2 A) and type A top enclosure
HLG-60H-30B	Identical except for output rating(DC30 V, 2 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-30D	Identical except for output rating(DC30 V, 2 A) and type D of dimming control board
HLG-60H-30	Identical except for output rating(DC30 V, 2 A)
HLG-60H-36A	Identical except for output rating(DC36 V, 1.7 A) and type A top enclosure
HLG-60H-36B	Identical except for output rating(DC36 V, 1.7 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-36D	Identical except for output rating(DC36 V, 1.7 A) and type D of dimming control board
HLG-60H-36	Identical except for output rating(DC36 V, 1.7 A)
HLG-60H-42A	Identical except for output rating(DC42 V, 1.45 A) and type A top enclosure
HLG-60H-42B	Identical except for output rating(DC42 V, 1.45 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-42D	Identical except for output rating(DC42 V, 1.45 A) and type D of dimming control board
HLG-60H-42	Identical except for output rating(DC42 V, 1.45 A)
HLG-60H-48A	Identical except for output rating(DC48 V, 1.3 A) and type A top enclosure
HLG-60H-48B	Identical except for output rating(DC48 V, 1.3 A), output wire with 18AWG*2C x 2 and type C of dimming control board
HLG-60H-48D	Identical except for output rating(DC48 V, 1.3 A) and type D of dimming control board
HLG-60H-48	Identical except for output rating(DC48 V, 1.3 A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-60H-54A	Identical except for output rating(DC54 V, 1.15 A) and type A top enclosure
HLG-60H-54B	Identical except for output rating(DC54 V, 1.15 A), output wire with 18AWG *2C x 2 and type C of dimming control board
HLG-60H-54D	Identical except for output rating(DC54 V, 1.15 A) and type D of dimming control board

제품특기사항 및 시험조건
Remarks & Test conditions

1. Test Report Ref. No. : 12-041360-01 (2013.03.22.)

2. Product Description

- DC or AC supplied electronic controlgear for LED modules
- 100-240 V~, 50/60 Hz, 0.64 A, 72 W (Output: DC54 V, 1.15 A)
- tc 80 ℃, ta 60 ℃
- Class of equipment : Class I
- Constant voltage type
- Independent controlgear
- IP67
- Totally filled with potting within the enclosure

□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다.
시험담당자 : 전기전자본부 광융합/부품평가센터 정재훈 / (02)860-1424
□ *If you have any question on product testing, please contact the person below :*
Job holder : Electrical and Electronic Division, Lighting Appliances & Electrical Components 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

□ 첨부 : 제품사진
Photographs

<사진 1>



<사진 2>

