

접 수 번 호 : 23-051572-04-1
(Receipt No.)



안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 : SZ11007-13001G
(Certificate No.)

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

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

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

기 본 모 델 명 : HLG-240H-54
(Basic Model)

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

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 265 W
(Rating) (Output: DC 54 V, 4.45 A)

시 험 기 준 : KC61347-1(2022-02), KC61347-2-13(2022-02)
(Standard)

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

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

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

2023 년 09 월 13 일
Year month day

한국산업기술시험원
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)

다수 공장의 현황
(The status of Multiple Factories)

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

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

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST	T5 A, 250 Vac	VDE
Alt.	Conquer	MST	T5 A, 300 Vac	UL
Alt.	Walter	2010-Series(s)	T5 A, 250 Vac or 300 Vac	VDE
Alt.	Littelfuse	369	T5 A, 250 Vac or 300 Vac	VDE
Varistor (ZNR1)	Joyin	14N471K 14S471K 10S471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Centra	CNR-14D471K CNR-10D471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Thinking	TVR14471-D	300 Vac, 385 Vdc	VDE, UL
Alt.	Centra	CNR-10D511K CNR-14D511K	320 Vac, 410 Vdc	VDE, UL
Alt.	Centra.	CNR-10D561K CNR-14D561K	350 Vac, 460 Vdc	VDE, UL
Alt.	Thinking	TVR10471-V TVR14471-V TVR10471-D TVR14471-D TVR10471-M TVR14471-M	300 Vac, 385 Vdc	VDE, UL
Alt.	Thinking	TVR10511-V TVR14511-V TVR10511-D TVR14511-D TVR10511-M TVR14511-M	320 Vac, 410 Vdc	VDE, UL
Alt.	Thinking	TVR10561-V TVR14561-V TVR10561-D TVR14561-D TVR10561-M TVR14561-M	350 Vac, 450 Vdc	VDE, UL
Alt.	Joyin	10S511K 14S511K 10N511K 14N511K	320 Vac, 418 Vdc	VDE, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Joyin	10S561K 14S561K 14N561K	350 Vac, 460 Vdc	VDE, UL
Choke (LF1)	Mean Well	TR-889	130 °C	Tested in appliance (TUV Rh)
Y-capacitor (C3, C4)	Murata.	KH KX	Max.2200 pF, Min.250 V, Y1	VDE, UL
Alt.	Walsin	AC	Max.2200 pF, Min. 250 V, Y1	VDE, UL
Alt.	Walsin	AH	Max.2200 pF, Min.250 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	Max.2200 pF, Min. 250 V, Y1	VDE, UL,S
Alt.	TDK-EPC	CS	Max.2200 pF, Min. 250 V, Y1	VDE, UL,S
Alt.	Murata.	KY	Max.2200 pF, Min. 250 V, Y1	VDE, UL
Alt.	Walsin	AS	Max.2200 pF, Min. 250 V, Y1	VDE, UL
Alt.	Walsin	WD	Max.2200 pF, Min. 250 V, Y1	VDE, UL
Alt.	VISHAY	VY1 WKP 440L...	Max.2200 pF, Min. 250 V, Y1	VDE, UL
Y-Capacitors (C23, C25)	Murata	KH KX	Max.100 pF, Min. 250 V, Y1	VDE, UL
Alt.	Walsin	AC	Max.100 pF, Min. 250 V, Y1	VDE, UL
Alt.	Walsin	AH	Max.100 pF, Min. 250 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	Max.100 pF, Min. 250 V, Y1	VDE, UL,S
Alt.	TDK-EPC	CS	Max.100 pF, Min. 250 V, Y1	VDE, UL,S
Alt.	Murata.	KY	Max.100 pF, Min. 250 V, Y2	VDE, UL
Alt.	Walsin	AS	Max.100 pF, Min. 250 V, Y1	VDE, UL
Alt.	Walsin	WD	Max.100 pF, Min. 250 V, Y1	VDE, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	VISHAY	VY1 WKP 440L...	Max.100 pF, Min. 250 V, Y1	VDE, UL
Y-capacitors (C120)	Murata	KH,KX	Max.10000 pF, Min. 250 V, Y1	VDE, UL
Alt.	Walsin	AC ,AH	Max.10000 pF, Min. 250 V, Y1	VDE, UL
Alt.	TDK-EPC	CD, CS	Max.10000 pF, Min. 250 V, Y1	VDE, UL,S
Alt.	Walsin	WD	Max.10000 pF, Min. 250 V, Y1	VDE, UL
X-Capacitor (C1, C2, C7)	KEMET(Acrotronics)	R.46	Max 0.82 uF, min.250 Vac, X2	ENEC, UL
Alt.		R.49	Max 0.82 uF, Min.250 Vac, X2	ENEC, UL
Alt.	EPCOS	B3292#-...	Max 0.82 uF, Min.250 Vac, X2	VDE, UL
Alt.	Liow Gu	GS-L	Max 0.82 uF, Min.250 Vac, X2	VDE, UL
Alt.	Ultra Tech	HQX	Max 0.82 uF, Min.250 Vac, X2	VDE, UL
Alt.	Joey	MPX	Max 0.82 uF, Min.250 Vac, X2	VDE, UL
Alt.	Hua Jung	MKP	Max 0.82 uF, Min.250 Vac, X2	ENEC, UL
Alt.	Carli	MPX	Max 0.82 uF, Min.250 Vac, X2	VDE, UL
Choke (LF2)	Mean Well	TR-915	130 °C	Tested in appliance (TUV Rh)
Choke (L2)	Mean Well	TR-930	130 °C	Tested in appliance (TUV Rh)
PFC Choke (L1)	Mean Well	TF-1940	130 °C	Tested in appliance (TUV Rh)
Photo Coupler (U2, U3)	Lite-On	LTV-817 LTV-817M	dti=0.8 mm, Int.dcr=5.2 mm, Ext. dcr=7.8 mm	VDE, Fimko, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt	Sharp	PC123	dti=0.7 m Int.dcr=5 mm, Ext. dcr=8 mm	VDE, Semko, UL
Alt	COSMO	K1010	dti=0.7 m Int.dcr=5 mm, Ext. dcr=8 mm	VDE, Fimko, UL
Alt.	Renesas	PS2561-1	dti=0.4 mm Ext. dcr=7.0 mm	VDE, Semko, UL
Alt.	CT Micro International Corporation	CT81(X1)(X2)(X3) V (Y)(Z)-(H)(G)	dti=.4 mm, Ext. dcr:=7.0 mm	VDE, UL
Bridging Capacitor (C31)	Murata.	KX	Max 1000 pF, Min. 250 V, Y1	VDE, UL
Alt	Walsin	AH	Max 1000 pF, Min. 250 V, Y1	VDE, UL
Alt	TDK-EPC	CD	Max 1000 pF, 400 Min. 250 V, Y1	VDE, UL
Alt	Walsin	AS	Max 1000 pF, Min. 250 V, Y1	VDE, UL
Alt	Welson	WD	Max 1000 pF, Min. 250 V, Y1	VDE, UL
Alt	VISHAY	VY1 WKP 440L...	Max 1000 pF, Min. 250 V, Y1	VDE, UL
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D, JD-E	Min. V-1, 130 °C	UL
Alt	Tai He PCB Company Limited	THS		
Alt	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T		
Alt	BRITE PLUS ELECTROMICS CO LTD	DGV0-3A		
Alt	HONG SHIEN ENTERPRISE CO LTD	03V-0		

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt	HONG WEI ENTERPRISE CO LTD	79		
Alt	HSU TZU ENTERPRISE CO LTD	4V0		
Alt	SHANGHAI WANZH ENG CIRCUIT BOA RD CO LTD	SWZ-1		
Alt	JIIN-YU ENTERPRISE CO LTD	JY-001		
Alt	CPFAN	003		
Alt	KUNSHAN WANYUA NTONG ELECTRONI C TECHNOLOGY C O LTD	SWZ-1	Min. V-1, 130 °C	UL
Alt	HONG SHIEN ENTE RPRISE CO LTD	-D		
Alt	HSU TZU ELECTRO NIC CO LTD	DV2		
Alt	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-2		
Alt	SUZHOU WUTONG ELECTRONICS CO LTD	GS-2 GS-4 GS-4S		
Alt	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2 AOH-8		
Transformer (T1) (For HLG-240H- 12z,z =A,B or blank,)	Yu Jing	TF-1941	Class B	Tested in appliance (TUV Rh)
Alt	Mean Well	TF-1941	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H- 15z,z =A,B or blank,)	Yu Jing	TF-1942	Class B	Tested in appliance (TUV Rh)

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt	Mean Well	TF-1942	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H- 20z,z =A,B or blank,)	Yu Jing	TF-1943	Class B	Tested in appliance (TUV Rh)
Alt	Mean Well	TF-1943	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H- 24z,z =A,B or blank,)	Yu Jing	TF-1944	Class B	Tested in appliance (TUV Rh)
Alt	Mean Well	TF-1944	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H- 30z,z =A,B or blank,)	Yu Jing	TF-1945	Class B	Tested in appliance (TUV Rh)
Alt	Mean Well	TF-1945	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H- 36z,z =A,B or blank,)	Yu Jing	TF-1946	Class B	Tested in appliance (TUV Rh)
Alt	Mean Well	TF-1946	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H- 42z,z =A,B or blank,)	Yu Jing	TF-1989	Class B	Tested in appliance (TUV Rh)
Alt	Mean Well	TF-1989	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H- 48z,z =A,B or blank,)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt	Mean Well	TF-1947	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H- 54z,z =A,B or blank,)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Alt	Mean Well	TF-1947	Class B	Tested in appliance (TUV Rh)
Potting Compound	Dow Corning	Sylgard 160	V-0,105 °C	UL
Alt	Guangzhou Huitian Fine Chemical Ltd.	5299#	V-0,105 °C	UL
Alt	SHIN-ETSU SILICO NE TAIWAN CO LT D	KET-132 A/B	V-0,105 °C	UL
Alt	SHIN-ETSU SILICO NE TAIWAN CO LT D	KET-132 A/B H	V-0,105 °C	UL
Alt	U- BOND TECHNOLO GY INC	UB-5203A/B	V-0,105 °C	UL
Alt	RISEAST TECHNOL OGY CORPORATIO N	SSTCP	V-0,105 °C	UL
Alt	DOW CORNING (S HANGHAI) CO LTD	TC-6011	V-0,105 °C	UL
Power Cord	Dongguan Lucky U nited	245 IEC 57 H05RN-F	3C X 0.75 mm ² 3C X 1.0 mm ²	KC
Alt	Dongguan Lucky U nited	245 IEC 51 H03RT-H	3C X 0.75 mm ² 3C X 1.0 mm ²	KC
Alt	Guangdong Rifeng	60245 IEC 57 H0 5RN-F	3C X 0.75 mm ² 3C X 1.0 mm ² 3C X 1.5 mm ²	KC
Alt	I-Sheng	60227 IEC 53	3C X 0.75 mm ² 3C X 1.0 mm ² 3C X 1.5 mm ² 3C X 2.5 mm ²	KC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt	Foxconn	K60227 IEC 52 (H03VV-F)	3C X 0.75 mm ²	KC
Alt		K60227 IEC 53 (H05VV-F)	3C X 0.75 mm ² 3C X 1.0 mm ²	KC
Alt	Fuyu	K60227 IEC 52 (H03VV-F)	3C X 0.75 mm ²	KC
Alt		K60227 IEC 53 (H05VV-F)	3C X 0.75 mm ² 3C X 1.0 mm ²	KC
Alt	Dong Guan Well S hin	K60227 IEC 52 H03VV-F	3C X 0.75 mm ²	KC
Alt		K60227 IEC 53 H05VV-F	3C X 0.75 mm ² 3C X 1.0 mm ²	KC
Alt	Ta Hsing Electric Wire & Cable	H05VV-F	3C X 0.75 mm ² 3C X 1.0 mm ² 3C X 1.5 mm ² 3C X 2.0 mm ² 3C X 2.5 mm ²	KC
Alt	Dong Guan Ever Un ited Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F	3C X 0.75 ~1.0 mm ²	KC
Alt	Dongguan Lucky U nited Electric Wire & Cabl e Co., Ltd.	K60245 IEC 57 H05RN-F	3C X 0.75~1.0 mm ²	KC
Alt	Dongguan Lucky U nited Electric Wire & Cabl e Co., Ltd.	K60245 IEC 66 H07RN-F	3C X 1.0 ~4.0 mm ²	KC
Alt	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F	3C X 0.75 mm ² 3C X1.0 mm ²	KC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
☐ 유의사항 (Attention) : 1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다. <i>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.</i> 2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 21 조제 1 항 또는 제 38 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다. <i>The Safety Certification will be cancelled under the Article 21(1), 38(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.</i>				

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-240H-12	Identical except for output rating (DC12 V, 16 A)
HLG-240H-12A	Identical except for output rating(DC12 V, 16 A) and two openings with plastic objects on the top enclosure
HLG-240H-12B	Identical except for output rating (DC12 V, 16 A) and two set output cords (one is for adjust current load)
HLG-240H-15	Identical except for output rating (DC15 V, 15 A)
HLG-240H-15A	Identical except for output rating (DC15 V, 15 A) and two openings with plastic objects on the top enclosure
HLG-240H-15B	Identical except for output rating (DC15 V, 15 A) and two set output cords (one is for adjust current load)
HLG-240H-20	Identical except for output rating (DC20 V, 12 A)
HLG-240H-20A	Identical except for output rating (DC20 V, 12 A) and two openings with plastic objects on the top enclosure
HLG-240H-20B	Identical except for output rating (DC20 V, 12 A) and two set output cords (one is for adjust current load)
HLG-240H-24	Identical except for output rating (DC24 V, 10 A)
HLG-240H-24A	Identical except for output rating (DC24 V, 10 A) and two openings with plastic objects on the top enclosure
HLG-240H-24B	Identical except for output rating (DC24 V, 10 A) and two set output cords (one is for adjust current load)
HLG-240H-30	Identical except for output rating (DC30 V, 8 A)
HLG-240H-30A	Identical except for output rating (DC30 V, 8 A) and two openings with plastic objects on the top enclosure
HLG-240H-30B	Identical except for output rating (DC30 V, 8 A) and two set output cords (one is for adjust current load)
HLG-240H-36	Identical except for output rating (DC36 V, 6.7 A)
HLG-240H-36A	Identical except for output rating (DC36 V, 6.7 A) and two openings with plastic objects on the top enclosure
HLG-240H-36B	Identical except for output rating (DC36 V, 6.7 A) and two set output cords (one is for adjust current load)
HLG-240H-42	Identical except for output rating (DC42 V, 5.72 A)
HLG-240H-42A	Identical except for output rating (DC42 V, 5.72 A) and two openings with plastic objects on the top enclosure
HLG-240H-42B	Identical except for output rating (DC42 V, 5.72 A) and two set output cords (one is for adjust current load)
HLG-240H-48	Identical except for output rating (DC48 V, 5 A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-240H-48A	Identical except for output rating (DC48 V, 5 A) and two openings with plastic objects on the top enclosure
HLG-240H-48B	Identical except for output rating (DC48 V, 5 A) and two set output cords (one is for adjust current load)
HLG-240H-54A	Identical except for two openings with plastic objects on the top enclosure
HLG-240H-54B	Identical except for two set output cords (one is for adjust current load)
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Test report No. : 13-015788-01 (2013.06.11.) 2. Products Description - DC or AC supplied electronic controlgear for LED modules - 100-240 V~, 50/60 Hz, 2.7-1.1 A, 265 W (Output: DC54 V, 4.45 A) - tc 95 °C, ta 50 °C - Class of equipment : Class I - Constant voltage type - Independent controlgear - IP67 - Totally filled with potting within the enclosure * factory information - MEAN WELL (Guangzhou) Electronics Co.,Ltd. - No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China	
□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토 담당자 / 연락처 : 고객지원본부 인증융합평가센터 신 종욱 / 02-860-1473 □ If you have any question on product review, please contact the person below : Job holder: Customer Support Division, Certification Convergence Evaluation Center, J.U.Shin / +82 2 860-1473	

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions																	
1 st Rev.) Addition of derivative models due to omission of models (14-051873-01) - “HLG-240H-48”, “HLG-240H-48A”, “HLG-240H-48B”																	
2 nd Rev.) Addition of factory (16-015152-15 : 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																	
3 rd Rev.) Change Addition factory name, address and president (16-067872-20 : 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																	
4 th Rev.) Addition of components (17-021470-03 : 2017.04.17.) - Addition of components																	
<table border="1"> <thead> <tr> <th>Component</th><th>Manufacturer</th><th>Model(Type)</th><th>Characteristics</th></tr> </thead> <tbody> <tr> <td rowspan="3">Power Cord</td><td>Dongguan Ever United Electric Wire & Cable Co., Ltd.</td><td>K60245 IEC 57 H05RN-F 3G0.75 mm²-1.0 mm²</td><td>3G x 0.75 mm²-1.0 m m²</td></tr> <tr> <td>Dongguan Lucky United Electric Wire & Cable Co.,Ltd</td><td>245 IEC 57 H05RN-F 2C- 3CX0.75 mm²-1 mm²</td><td>3C x 0.75 mm²-1.0 m m²</td></tr> <tr> <td>Dongguan Ever United Electric Wire & Cable Co., Ltd.</td><td>K60245 IEC 66 H07RN-F 3G1.0 mm²-4 mm²</td><td>3G x 1.0 mm²-4.0 m m²</td></tr> </tbody> </table>				Component	Manufacturer	Model(Type)	Characteristics	Power Cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 mm ² -1.0 mm ²	3G x 0.75 mm ² -1.0 m m ²	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	245 IEC 57 H05RN-F 2C- 3CX0.75 mm ² -1 mm ²	3C x 0.75 mm ² -1.0 m m ²	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 mm ² -4 mm ²	3G x 1.0 mm ² -4.0 m m ²
Component	Manufacturer	Model(Type)	Characteristics														
Power Cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 mm ² -1.0 mm ²	3G x 0.75 mm ² -1.0 m m ²														
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	245 IEC 57 H05RN-F 2C- 3CX0.75 mm ² -1 mm ²	3C x 0.75 mm ² -1.0 m m ²														
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 mm ² -4 mm ²	3G x 1.0 mm ² -4.0 m m ²														
5 th Rev.) Change name, president and address of factory (21-082212-09-1 : 2022.01.11.) - Before : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China After : MEAN WELL (Guangzhou) Electronics Co.,Ltd. / Aden Wang No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China																	

FP511-06

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Contents of Certificate Revisions

- 6th Rev.) Change of PCB layout and addition and modification of components
(22-003229-01-1 : 2022.02.09.)
- PCB layout: Added copper foil around the component holes for fixing components better.
 - Critical components added or modified as below:

component	manufacturer	Model(type)	
Alt.fuses	Walter	2010-series	
	Littelfuse	369	
Alt.varistor(Z NR1)	Joyin	10S471K, 10S511K, 14S511K, 10N511K 14N511K	
	Centra	CNR-10D471K, CNR-10D511K, CNR-14D511K, CNR-10D561K, CNR-14D561K	
	Thinking	TVR10471-V, TVR14471-V, TVR10471-D, TVR14471-D, TVR10471-M, TVR14471-M, TVR10511-V, TVR14511-V, TVR10511-D, TVR14511-D, TVR10511-M, TVR14511-M, TVR10561-V, TVR14561-V, TVR10561-D, TVR14561-D, TVR10561-M, TVR14561-M	
Alt. Y-capacitor (C3, C4)	Murata.	KY	
	Walsin	AS, WD	
	VISHAY	VY1, WKP, 440L...	
Alt. Y-capacitors (C23, C25)	Murata.	KY	
	Walsin	AS, WD,	
	VISHAY	VY1, WKP, 440L...	
Alt. Y-capacitors (C120)	Walsin	WD	
	VISHAY	440L...	
X-Capacitor (C1, C2, C7)	KEMET (Acrotronics)	Model (type)	Rating or Characteristics
		R.41	0.82 uF, 250 Vac, X2
Alt.		R.46	C1 : 0.47 uF, 275 Vac, X2 C2 : 0.68 uF, 275 Vac, X2 C7 : 0.82 uF, 275 Vac, X2
Alt.		R.49	0.82 uF, 250 Vac, X2
Alt.	Iskra	KNB 1530	0.82 uF, 250 Vac, X2
Alt.		KNB 1560	0.82 uF, 250 Vac, X2
Alt.	EPCOS	B3292#-...	0.82 uF, 250 Vac, X2
Alt.	Liow Gu	GS-L	0.82 uF, 275 Vac, X2
Alt.	COWELL	PCX2 335 PCX2 335M PCX2 337	0.82 uF, 250 Vac, X2

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Alt.	Ultra Tech	HQX	0.82 uF, 250 Vac, X2
Alt.	VISHAY	339	0.82 uF, 250 Vac, X2
Alt.	Cheng Tung	CTX	0.82 uF, 250 Vac, X2
Alt.	Joey	MPX	0.82 uF, 250 Vac, X2
Alt.	Xiamen Kondtrics	MKP62	0.82 uF, 250 Vac, X2
Alt.	Hua Jung	MKP	0.82 uF, 250 Vac, X2
Alt.	Carli	MPX	0.82 uF, 250 Vac, X2
Alt.Photo Coupler (U2, U3)	Renesas	PS2561-1	dti=0.4mm Ext. dcr=7.0mm
Alt.	CT Micro International Corporation	CT81(X1)(X2)(X3) V (Y)(Z)-(H)(G)	dti=.4mm, Ext. dcr:=7.0mm
Alt.Bridging Capacitor (C31)	Walsin	AS	1000 pF, 250V, Y1
Alt.	Welson	WD	1000 pF, 250V, Y1
Alt.	VISHAY	VY1 WKP 440L...	1000 pF, 250V, Y1
Alt. PCB	KUNSHAN WANYUANTON G ELECTRONIC TECHNOLOGY CO LTD	SWZ-1	Min. V-1, 130°C
Alt	GUANGZHOU TAIHE PRINTED CIRCUIT BOARD LIMITED	THS	Min. V-1, 130°C
Alt	HONG SHIEN ENTERPRISE CO LTD	-D	Min. V-1, 130°C
Alt	HSU TZU ELECTRONIC CO LTD	DV2	Min. V-1, 130°C
Alt	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-2	Min. V-1, 130°C
Alt	SUZHOU WUTONG ELECTRONICS CO LTD	GS-2 GS-4 GS-4S	Min. V-1, 130°C

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Alt	RONG HUI ELECTRONICS (HUIZHOU) CO LTD	RH-3	Min. V-1, 130°C
Alt	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2 AOH-8	Min. V-1, 130°C
Alt. Transformer (T1) (For HLG-240H- 12z,z =A,B or blank,)	Mean Well	TF-1941	Class B
Alt.Transfor mer (T1) (For HLG- 240H-15z,z =A,B or blank,)	Mean Well	TF-1942	Class B
Alt.Transfor mer (T1) (For HLG- 240H-20z,z =A,B or blank,)	Mean Well	TF-1943	Class B
Alt.Transfor mer (T1) (For HLG- 240H-24z,z =A,B or blank,)	Mean Well	TF-1944	Class B
Alt.Transfor mer (T1) (For HLG- 240H-30z,z =A,B or blank,)	Mean Well	TF-1945	Class B
Alt.Transfor mer (T1) (For HLG- 240H-36z,z =A,B or blank,)	Mean Well	TF-1946	Class B

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Alt.Transform mer (T1) (For HLG- 240H-42z,z =A,B or blank,)	Mean Well	TF-1989	Class B
Alt.Transform mer (T1) (For HLG- 240H-48z,z =A,B or blank,)	Mean Well	TF-1947	Class B
Alt. Transformer (T1) (For HLG-240H- 54z,z =A,B or blank,)	Mean Well	TF-1947	Class B
Alt.potting compound	SHIN-ETSU SILICONE TAIWAN CO LTD	KET-132 A/B	V-0,105°C
Alt.	SHIN-ETSU SILICONE TAIWAN CO LTD	KET-132 A/B H	V-0,105°C
Alt.	U-BOND TECHNOLOGY INC	UB-5203A/B	V-0,105°C
Alt.	RISEAST TECHNOLOGY CORPORATION	SSTCP	V-0,105°C
Alt.	DOW CORNING (SHANGHAI) CO LTD	TC-6011	V-0,105°C
Alt.power cord	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F	3C X 0.75 mm ² 3C X1.0 mm ²

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7th Rev.) components modifications and update of KC standards to KC61347-1(2022-02),
KC61347-2-13(2022-02) (23-051572-04-1 : 2023.09.13.)
based on CB Certificate Ref. No.: DE 2-032970 and DE 2-032970-M1 (TÜV Rheinland
LGA Products GmbH) and CB report No. CN21X48G 001 and CN21X48G 002.
(TÜV Rheinland (Guangdong) Ltd.)

- Addition of alternative components

Component (Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
PCB	Tai He PCB Company Limited	THS	Min. V-1, min. 130 °C	UL
PCB	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T	Min. V-0, min. 130 °C	UL

- Y-capacitor (C3, C4) rating update: Max.2200 pF, Min. 250 V, Y1
- Y-capacitor (C23, C25) rating update: Max.100 pF, Min. 250 V, Y1
- Y-capacitor (C120) rating update: "Max." 10000 pF, Min. 250 V, Y1
- X-Capacitor (C1, C2, C7) rating update: "Max 0.82 uF, Min.250 Vac, X2
- Bridging Capacitor (C31) rating update: "Max." 1000 pF, Min. 250 V, Y1
- KC standards updated to KC61347-1(2022-02), KC61347-2-13(2022-02)
- Delete some materials form component list shown below

Component (Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
Y-capacitor (C3, C4)	KEMET(Acrotronics)	R.41 MKT R.41 MKP	Max.2200 pF, 300 V, Y1	ENC,UL
Y-Capacitors (C23, C25)	KEMET(Acrotronics)	R.41 MKT R.41 MKP	Max.100 pF, 300 V, Y1	ENC,UL
Y-capacitors (C120)	KEMET(Acrotronics)	R.41 MKT R.41 MKP	Max.10000 pF, 250 V, Y1	ENC,UL
Y-capacitors (C120)	VISHAY	440L...	Max.10000 pF, 250 V, Y1	VDE, UL

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X-Capacitor (C1, C2, C7)	KEMET(Acrotronics)	R.41	Max.0.82 uF, min.250 Vac, X2	ENEC, UL
X-Capacitor (C1, C2, C7)	Iskra	KNB 1530	Max 0.82 uF, min.250 Vac, X2	VDE, UL
X-Capacitor (C1, C2, C7)	Iskra	KNB 1560	Max 0.82 uF, min.250 Vac, X2	VDE, UL
X-Capacitor (C1, C2, C7)	Shiny Space	SX1	Max 0.82 uF, min.250 Vac, X2	VDE, UL
X-Capacitor (C1, C2, C7)	COWELL	PCX2 335 PCX2 335M PCX2 337	Max 0.82 uF, min.250 Vac, X2	ENEC, UL
X-Capacitor (C1, C2, C7)	VISHAY	339	Max 0.82 uF, min.250 Vac, X2	ENEC, UL
X-Capacitor (C1, C2, C7)	Cheng Tung	CTX	Max 0.82 uF, min.250 Vac, X2	ENEC, UL
X-Capacitor (C1, C2, C7)	Xiamen Kondtrics	MKP62	Max 0.82 uF, min.250 Vac, X2	ENEC, UL
PCB	HSIANG KUO INDUSTRIAL CO LTD	76V0A	Min. V-1, 130 °C	UL
PCB	GUANGZHOU TAIHE PRINTED CIRCUIT BOARD LIMITED THS	THS	Min. V-1, 130 °C	UL
PCB	RONG HUI ELECTRONICS (HUIZHOU) CO LTD	RH-3	Min. V-1, 130 °C	UL

접 수 번 호 : 22-003229-01-1
(Receipt No.)



안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 : SZ11007-13001F
(Certificate No.)

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

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

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

기 본 모 델 명 : HLG-240H-54
(Basic Model)

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

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 265 W
(Rating) (Output: DC 54 V, 4.45 A)

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

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

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

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

2022 년 02 월 09 일
Year month day

한국산업기술시험원
KOREA TESTING LABORATORY



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

첨부서류

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

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

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST	T5 A, 250 Vac	VDE
Alt.	Conquer	MST	T5 A, 300 Vac	UL
Alt.	Walter	2010-Series(s)	T5 A, 250 Vac or 300Vac	VDE
Alt.	Littelfuse	369	T5 A, 250 Vac or 300Vac	VDE
Varistor (ZNR1)	Joyin	14N471K 14S471K 10S471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Centra	CNR-14D471K CNR-10D471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Thinking	TVR14471-D	300 Vac, 385 Vdc	VDE, UL
Alt.	Centra	CNR-10D511K CNR-14D511K	320 Vac, 410 Vdc	VDE, UL
Alt.	Centra.	CNR-10D561K CNR-14D561K	350 Vac, 460 Vdc	VDE, UL
Alt.	Thinking	TVR10471-V T VR14471-V TVR10471-D T VR14471-D TVR10471-M TVR14471-M	300 Vac, 385 Vdc	VDE, UL
Alt.	Thinking	TVR10511-V T VR14511-V TVR10511-D T VR14511-D TVR10511-M T VR14511-M	320 Vac, 410 Vdc	VDE, UL
Alt.	Thinking	TVR10561-V T VR14561-V TVR10561-D T VR14561-D TVR10561-M T VR14561-M	350 Vac, 450 Vdc	VDE, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Joyin	10S511K 14S511K 10N511K 14N511K	320 Vac, 418 Vdc	VDE, UL
Alt.	Joyin	10S561K 14S561K 14N561K	350 Vac, 460 Vdc	VDE, UL
Choke (LF1)	Mean Well	TR-889	130 °C	Tested in appliance (TUV Rh)
Y-capacitor (C3, C4)	KEMET(Acrotronics)	R.41 MKT R.41 MKP	2200 pF, 300 V, Y1	ENC,UL
Alt.	Murata.	KH KX	2200 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	2200 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	2200 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	2200 pF, 400 V, Y1	VDE, UL,S
Alt.	TDK-EPC	CS	2200 pF, 250 V, Y1	VDE, UL,S
Alt.	Murata.	KY	2200 pF, 250 V, Y2	VDE, UL
Alt.	Walsin	AS	2200 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	WD	2200 pF, 250 V, Y1	VDE, UL
Alt.	VISHAY	VY1 WKP 440L...	2200 pF, 250 V, Y1	VDE, UL
Y-Capacitors (C2 3, C25)	KEMET(Acrotronics)	R.41 MKT R.41 MKP	100 pF, 300 V, Y1	ENC,UL
Alt.	Murata	KH KX	100 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AC	100 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	100 pF, 300 V, Y1	VDE, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	TDK-EPC	CD	100 pF, 300 V, Y1	VDE, UL,S
Alt.	TDK-EPC	CS	100 pF, 250 V, Y1	VDE, UL,S
Alt.	Murata.	KY	100 pF, 250 V, Y2	VDE, UL
Alt.	Walsin	AS	100 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	WD	100 pF, 250 V, Y1	VDE, UL
Alt.	VISHAY	VY1 WKP 440L...	100 pF, 250 V, Y1	VDE, UL
Y-capacitors (C12 0)	KEMET(Acrotronics)	R.41 MKT R.41 MKP	10000 pF, 250 V, Y1	ENC,UL
Alt.	Murata	KH,KX	10000 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AC ,AH	10000 pF, 250 V, Y1	VDE, UL
Alt.	TDK-EPC	CD, CS	10000 pF, 250 V, Y1	VDE, UL,S
Alt.	Walsin	WD	10000 pF, 250 V, Y1	VDE, UL
Alt.	VISHAY	440L...	10000 pF, 250 V, Y1	VDE, UL
X-Capacitor (C1, C2, C7)	KEMET(Acrotronics)	R.41	0.82 uF, 250 Vac, X2	ENEC, UL
Alt.		R.46	C1 : 0.47 uF, 275 Vac,X 2 C2 : 0.68 uF, 275 Vac, X2 C7 : 0.82 uF, 275 Vac, X2	ENEC, UL
Alt.		R.49	0.82 uF, 250 Vac, X2	ENEC, UL
Alt.	Iskra	KNB 1530	0.82 uF, 250 Vac, X2	VDE, UL
Alt.		KNB 1560	0.82 uF, 250 Vac, X2	VDE, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Shiny Space	SX1	0.82 uF, 250 Vac, X2	VDE, UL
Alt.	EPCOS	B3292#-...	0.82 uF, 250 Vac, X2	VDE, UL
Alt.	Liow Gu	GS-L	0.82 uF, 275 Vac, X2	VDE, UL
Alt.	COWELL	PCX2 335 PCX2 335M PCX2 337	0.82 uF, 250 Vac, X2	ENEC, UL
Alt.	Ultra Tech	HQX	0.82 uF, 250 Vac, X2	VDE, UL
Alt.	VISHAY	339	0.82 uF, 250 Vac, X2	ENEC, UL
Alt.	Cheng Tung	CTX	0.82 uF, 250 Vac, X2	ENEC, UL
Alt.	Joey	MPX	0.82 uF, 250 Vac, X2	VDE, UL
Alt.	Xiamen Kondtrics	MKP62	0.82 uF, 250 Vac, X2	ENEC, UL
Alt.	Hua Jung	MKP	0.82 uF, 250 Vac, X2	ENEC, UL
Alt.	Carli	MPX	0.82 uF, 250 Vac, X2	VDE, UL
Choke (LF2)	Mean Well	TR-915	130 °C	Tested in appliance (TUV Rh)
Choke (L2)	Mean Well	TR-930	130 °C	Tested in appliance (TUV Rh)
PFC Choke (L1)	Mean Well	TF-1940	130 °C	Tested in appliance (TUV Rh)
Photo Coupler (U2, U3)	Lite-On	LTV-817 LTV-817M	dti=0.8mm, Int.dcr=5.2 mm, Ext. dcr=7.8 mm	VDE, Fimko, UL
Alt	Sharp	PC123	dti=0.7 m Int.dcr=5 mm, Ext. dcr=8 mm	VDE, Semko, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt	COSMO	K1010	dti=0.7 mm Int.dcr=5 mm, Ext. dcr=8 mm	VDE, Fimko, UL
Alt.	Renesas	PS2561-1	dti=0.4 mm Ext. dcr=7.0 mm	VDE, Semk o, UL
Alt.	CT Micro International Corporation	CT81(X1)(X2) (X3) V (Y)(Z)- (H)(G)	dti=.4 mm, Ext. dcr:=7.0 mm	VDE, UL
Bridging Capacitor (C31)	Murata.	KX	1000 pF, 250 V, Y1	VDE, UL
Alt	Walsin	AH	1000 pF, 250 V, Y1	VDE, UL
Alt	TDK-EPC	CD	1000 pF, 400 V, Y1	VDE, UL
Alt	Walsin	AS	1000 pF, 250 V, Y1	VDE, UL
Alt	Welson	WD	1000 pF, 250 V, Y1	VDE, UL
Alt	VISHAY	VY1 WKP 440L...	1000 pF, 250 V, Y1	VDE, UL
PCB	SHUNDE JUNDA ELE CTRONIC CO LTD	JD-D, JD-E	Min.V-1, 130 °C	UL
Alt	BRITE PLUS ELECTR OMICS CO LTD	DGV0-3A		
Alt	HONG SHIEN ENTER PRISE CO LTD	03V-0		
Alt	HONG WEI ENTERPR ISE CO LTD	79		
Alt	HSU TZU ENTERPRIS E CO LTD	4V0		
Alt	SHANGHAI WANZHE NG CIRCUIT BOARD CO LTD	SWZ-1		
Alt	HSIANG KUO INDUS TRIAL CO LTD	76V0A		
Alt	JIIN-YU ENTERPRISE CO LTD	JY-001		

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt	CPFAN	003		
Alt	KUNSHAN WANYUAN TONG ELECTRONIC TECHNOLOGY CO L TD	SWZ-1	Min. V-1, 130 °C	UL
Alt	GUANGZHOU TAIHE PRINTED CIRCUIT B OARD LIMITED	THS		
Alt	HONG SHIEN ENTER PRISE CO LTD	-D		
Alt	HSU TZU ELECTRON IC CO LTD	DV2		
Alt	JIANGSU DIFEIDA EL ECTRONICS CO LTD	DFD-2		
Alt	SUZHOU WUTONG E LECTRONICS CO LT D	GS-2 GS-4 GS-4S		
Alt	RONG HUI ELECTRO NICS (HUIZHOU) CO LTD	RH-3		
Alt	CHANGZHOU AOHO NG ELECTRONICS C O LTD	AOH-2 AOH-8		
Transformer (T1) (For HLG-240H-1 2z,z =A,B or blan k.)	Yu Jing	TF-1941	Class B	Tested in ap pliance (TUV Rh)
Alt	Mean Well	TF-1941	Class B	Tested in ap pliance (TUV Rh)
Transformer (T1) (For HLG-240H-1 5z,z =A,B or blan k.)	Yu Jing	TF-1942	Class B	Tested in ap pliance (TUV Rh)
Alt	Mean Well	TF-1942	Class B	Tested in ap pliance (TUV Rh)
Transformer (T1) (For HLG-240H-2 0z,z =A,B or blan k.)	Yu Jing	TF-1943	Class B	Tested in ap pliance (TUV Rh)

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt	Mean Well	TF-1943	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H-2 4z,z =A,B or blank,)	Yu Jing	TF-1944	Class B	Tested in appliance (TUV Rh)
Alt	Mean Well	TF-1944	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H-3 0z,z =A,B or blank,)	Yu Jing	TF-1945	Class B	Tested in appliance (TUV Rh)
Alt	Mean Well	TF-1945	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H-3 6z,z =A,B or blank,)	Yu Jing	TF-1946	Class B	Tested in appliance (TUV Rh)
Alt	Mean Well	TF-1946	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H-4 2z,z =A,B or blank,)	Yu Jing	TF-1989	Class B	Tested in appliance (TUV Rh)
Alt	Mean Well	TF-1989	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H-4 8z,z =A,B or blank,)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Alt	Mean Well	TF-1947	Class B	Tested in appliance (TUV Rh)
Transformer (T1) (For HLG-240H-5 4z,z =A,B or blank,)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt	Mean Well	TF-1947	Class B	Tested in appliance (TUV Rh)
Potting Compound	Dow Corning	Sylgard 160	V-0,105 °C	UL
Alt	Guangzhou Huitian Fine Chemical Ltd.	5299#	V-0,105 °C	UL
Alt	SHIN-ETSU SILICON E TAIWAN CO LTD	KET-132 A/B	V-0,105 °C	UL
Alt	SHIN-ETSU SILICON E TAIWAN CO LTD	KET-132 A/B H	V-0,105 °C	UL
Alt	U-BOND TECHNOLOGY INC	UB-5203A/B	V-0,105 °C	UL
Alt	RISEAST TECHNOLOGY CORPORATION	SSTCP	V-0,105 °C	UL
Alt	DOW CORNING (SHANGHAI) CO LTD	TC-6011	V-0,105 °C	UL
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C X 0.75 mm ² 3C X 1.0 mm ²	KC
Alt	Dongguan Lucky United	245 IEC 51 H03RT-H	3C X 0.75 mm ² 3C X 1.0 mm ²	KC
Alt	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C X 0.75 mm ² 3C X 1.0 mm ² 3C X 1.5 mm ²	KC
Alt	I-Sheng	60227 IEC 53	3C X 0.75 mm ² 3C X 1.0 mm ² 3C X 1.5 mm ² 3C X 2.5 mm ²	KC
Alt	Foxconn	K60227 IEC 52 (H03VV-F)	3C X 0.75 mm ²	KC
Alt		K60227 IEC 53 (H05VV-F)	3C X 0.75 mm ² 3C X 1.0 mm ²	KC
Alt	Fuyu	K60227 IEC 52 (H03VV-F)	3C X 0.75 mm ²	KC
Alt		K60227 IEC 53 (H05VV-F)	3C X 0.75 mm ² 3C X 1.0 mm ²	KC
Alt	Dong Guan Well Shinn	K60227 IEC 52 H03VV-F	3C X 0.75 mm ²	KC
Alt		K60227 IEC 53 H05VV-F	3C X 0.75 mm ² 3C X 1.0 mm ²	KC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt	Ta Hsing Electric Wire & Cable	H05VV-F	3C X 0.75 mm ² 3C X 1.0 mm ² 3C X 1.5 mm ² 3C X 2.0 mm ² 3C X 2.5 mm ²	KC
Alt	Dong Guan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F	3C X 0.75 ~1.0 mm ²	KC
Alt	Dongguan Lucky United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F	3C X 0.75~1.0 mm ²	KC
Alt	Dongguan Lucky United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F	3C X 1.0 ~4.0 mm ²	KC
Alt	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F	3C X 0.75 mm ² 3C X 1.0 mm ²	KC

☐ 유의사항 (Attention) :

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

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

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

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

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

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-240H-12	Identical except for output rating (DC12 V, 16 A)
HLG-240H-12A	Identical except for output rating(DC12 V, 16 A) and two openings with plastic objects on the top enclosure
HLG-240H-12B	Identical except for output rating (DC12 V, 16 A) and two set output cords (one is for adjust current load)
HLG-240H-15	Identical except for output rating (DC15 V, 15 A)
HLG-240H-15A	Identical except for output rating (DC15 V, 15 A) and two openings with plastic objects on the top enclosure
HLG-240H-15B	Identical except for output rating (DC15 V, 15 A) and two set output cords (one is for adjust current load)
HLG-240H-20	Identical except for output rating (DC20 V, 12 A)
HLG-240H-20A	Identical except for output rating (DC20 V, 12 A) and two openings with plastic objects on the top enclosure
HLG-240H-20B	Identical except for output rating (DC20 V, 12 A) and two set output cords (one is for adjust current load)
HLG-240H-24	Identical except for output rating (DC24 V, 10 A)
HLG-240H-24A	Identical except for output rating (DC24 V, 10 A) and two openings with plastic objects on the top enclosure
HLG-240H-24B	Identical except for output rating (DC24 V, 10 A) and two set output cords (one is for adjust current load)
HLG-240H-30	Identical except for output rating (DC30 V, 8 A)
HLG-240H-30A	Identical except for output rating (DC30 V, 8 A) and two openings with plastic objects on the top enclosure
HLG-240H-30B	Identical except for output rating (DC30 V, 8 A) and two set output cords (one is for adjust current load)
HLG-240H-36	Identical except for output rating (DC36 V, 6.7 A)
HLG-240H-36A	Identical except for output rating (DC36 V, 6.7 A) and two openings with plastic objects on the top enclosure

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-240H-36B	Identical except for output rating (DC36 V, 6.7 A) and two set output cords (one is for adjust current load)
HLG-240H-42	Identical except for output rating (DC42 V, 5.72 A)
HLG-240H-42A	Identical except for output rating (DC42 V, 5.72 A) and two openings with plastic objects on the top enclosure
HLG-240H-42B	Identical except for output rating (DC42 V, 5.72 A) and two set output cords (one is for adjust current load)
HLG-240H-48	Identical except for output rating (DC48 V, 5 A)
HLG-240H-48A	Identical except for output rating (DC48 V, 5 A) and two openings with plastic objects on the top enclosure
HLG-240H-48B	Identical except for output rating (DC48 V, 5 A) and two set output cords (one is for adjust current load)
HLG-240H-54A	Identical except for two openings with plastic objects on the top enclosure
HLG-240H-54B	Identical except for two set output cords (one is for adjust current load)
제품특기사항 및 시험조건 Remarks & Test conditions	

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
1. Test report No. : 13-015788-01 (2013.06.11.) 2. Products Description - DC or AC supplied electronic controlgear for LED modules - 100-240 V~, 50/60 Hz, 2.7-1.1 A, 265 W (Output: DC54 V, 4.45 A) - tc 95 °C, ta 50 °C - Class of equipment : Class I - Constant voltage type - Independent controlgear - IP67 - Totally filled with potting within the enclosure ★ factory information - MEAN WELL (Guangzhou) Electronics Co.,Ltd. No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China	
□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토 담당자 / 연락처 : 고객지원본부 인증융합평가팀 신 종욱 / 02-8601-1437 □ <i>If you have any question on product review, please contact the person below :</i> <i>Job holder: Customer Support Division, Certification Convergence Evaluation Team, J.U.Shin / +82 2 860-1437</i>	

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FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions																	
1 st Rev.) Addition of derivative models due to omission of models (14-051873-01) - “HLG-240H-48”, “HLG-240H-48A”, “HLG-240H-48B”																	
2 nd Rev.) Addition of factory (16-015152-15 : 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																	
3 rd Rev.) Change Addition factory name, address and president (16-067872-20 : 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 na 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																	
4 th Rev.) Addition of components (17-021470-03 : 2017.04.17.) - Addition of components																	
<table border="1"> <thead> <tr> <th>Component</th><th>Manufacturer</th><th>Model(Type)</th><th>Characteristics</th></tr> </thead> <tbody> <tr> <td rowspan="3">Power Cord</td><td>Dongguan Ever United Electric Wire & Cable Co., Ltd.</td><td>K60245 IEC 57 H05RN-F 3G 0.75 mm²-1.0 mm²</td><td>3G x 0.75 mm²-1.0 m m²</td></tr> <tr> <td>Dongguan Lucky United Electric Wire & Cable Co.,Ltd</td><td>245 IEC 57 H0 5RN-F 2C-3C X0.75 mm²-1 mm²</td><td>3C x 0.75 mm²-1.0 m m²</td></tr> <tr> <td>Dongguan Ever United Electric Wire & Cable Co., Ltd.</td><td>K60245 IEC 66 H07RN-F 3G 1.0 mm²-4 mm²</td><td>3G x 1.0 mm²-4.0 m m²</td></tr> </tbody> </table>				Component	Manufacturer	Model(Type)	Characteristics	Power Cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G 0.75 mm ² -1.0 mm ²	3G x 0.75 mm ² -1.0 m m ²	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	245 IEC 57 H0 5RN-F 2C-3C X0.75 mm ² -1 mm ²	3C x 0.75 mm ² -1.0 m m ²	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G 1.0 mm ² -4 mm ²	3G x 1.0 mm ² -4.0 m m ²
Component	Manufacturer	Model(Type)	Characteristics														
Power Cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G 0.75 mm ² -1.0 mm ²	3G x 0.75 mm ² -1.0 m m ²														
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	245 IEC 57 H0 5RN-F 2C-3C X0.75 mm ² -1 mm ²	3C x 0.75 mm ² -1.0 m m ²														
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G 1.0 mm ² -4 mm ²	3G x 1.0 mm ² -4.0 m m ²														
5 th Rev.) Change name, president and address of factory (21-082212-09-1 : 2022.01.11.) - Before : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China After : MEAN WELL (Guangzhou) Electronics Co.,Ltd. / Aden Wang No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China																	

FP511-06

변경발급 내용
Contents of Certificate Revisions

- 6th Rev.) Change of PCB layout and addition and modification of components
(22-003229-01-1 : 2022.02.09.)
- PCB layout: Added copper foil around the component holes for fixing components better.
 - Critical components added or modified as below:

component	manufacturer	Model(type)	
Alt.fuses	Walter	2010-series	
	Littelfuse	369	
Alt.varistor(Z NR1)	Joyin	10S471K, 10S511K, 14S511K,10N511K 14N511K	
	Centra	CNR-10D471K, CNR-10D511K, CNR-14D511K, CNR-10D561K, CNR-14D561K	
	Thinking	TVR10471-V, TVR14471-V, TVR10471-D, TVR14471-D, TVR10471-M, TVR14471-M,TVR10511-V, TVR14511-V, TVR10511-D, TVR14511-D,TVR10511-M, TVR14511-M TVR10561-V, TVR14561-V,TVR10561-D, TVR14561-D TVR10561-M, TVR14561-M	
Alt.Y-capacitor (C3, C4)	Murata.	KY	
	Walsin	AS, WD	
	VISHAY	VY1, WKP, 440L...	
Alt.Y-capacitors (C23, C25)	Murata.	KY	
	Walsin	AS, WD,	
	VISHAY	VY1, WKP, 440L...	
Alt.Y-capacitors (C120)	Walsin	WD	
	VISHAY	440L...	
X-Capacitor (C1, C2, C7)	KEMET (Acrotronics)	Model (type)	Rating or Characteristics
		R.41	0.82 uF, 250 Vac, X2
Alt.		R.46	C1 : 0.47 uF, 275 Vac,X2 C2 : 0.68 uF, 275 Vac,X2 C7 : 0.82 uF, 275 Vac,X2
Alt.	Iskra	R.49	0.82 uF, 250 Vac, X2
Alt.		KNB 1530	0.82 uF, 250 Vac, X2
Alt.		KNB 1560	0.82 uF, 250 Vac, X2
Alt.	EPCOS	B3292#-...	0.82 uF, 250 Vac, X2
Alt.	Liow Gu	GS-L	0.82 uF, 275 Vac, X2
Alt.	COWELL	PCX2 335 PCX2 335M PCX2 337	0.82 uF, 250 Vac, X2

변경발급 내용
Contents of Certificate Revisions

Alt.	Ultra Tech	HQX	0.82 uF, 250 Vac, X2
Alt.	VISHAY	339	0.82 uF, 250 Vac, X2
Alt.	Cheng Tung	CTX	0.82 uF, 250 Vac, X2
Alt.	Joey	MPX	0.82 uF, 250 Vac, X2
Alt.	Xiamen Kondtrics	MKP62	0.82 uF, 250 Vac, X2
Alt.	Hua Jung	MKP	0.82 uF, 250 Vac, X2
Alt.	Carli	MPX	0.82 uF, 250 Vac, X2
Alt.Photo Coupler (U2, U3)	Renesas	PS2561-1	dti=0.4mm Ext. dcr=7.0mm
Alt.	CT Micro International Corporation	CT81(X1)(X2)(X3) V (Y)(Z)-(H)(G)	dti=.4mm, Ext. dcr:=7.0mm
Alt.Bridging Capacitor (C31)	Walsin	AS	1000 pF, 250V, Y1
Alt.	Welson	WD	1000 pF, 250V, Y1
Alt.	VISHAY	VY1 WKP 440L...	1000 pF, 250V, Y1
Alt. PCB	KUNSHAN WANYUANTONG ELECTRONIC TECHNOLOGY CO LTD	SWZ-1	Min. V-1, 130°C
Alt	GUANGZHOU TAIHE PRINTED CIRCUIT BOARD LIMITED	THS	Min. V-1, 130°C
Alt	HONG SHIEN ENTERPRISE CO LTD	-D	Min. V-1, 130°C
Alt	HSU TZU ELECTRONIC CO LTD	DV2	Min. V-1, 130°C
Alt	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-2	Min. V-1, 130°C
Alt	SUZHOU WUTONG ELECTRONICS CO LTD	GS-2 GS-4 GS-4S	Min. V-1, 130°C

변경발급 내용
Contents of Certificate Revisions

Alt	RONG HUI ELECTRONICS (HUIZHOU) CO. LTD	RH-3	Min. V-1, 130°C
Alt	CHANGZHOU AOHONG ELECTRONICS CO. LTD	AOH-2 AOH-8	Min. V-1, 130°C
Alt. Transformer (T1) (For HLG-240H-1 2z, z=A, B or blank,)	Mean Well	TF-1941	Class B
Alt. Transformer (T1) (For HLG-240H-15z, z=A, B or blank,)	Mean Well	TF-1942	Class B
Alt. Transformer (T1) (For HLG-240H-20z, z=A, B or blank,)	Mean Well	TF-1943	Class B
Alt. Transformer (T1) (For HLG-240H-24z, z=A, B or blank,)	Mean Well	TF-1944	Class B
Alt. Transformer (T1) (For HLG-240H-30z, z=A, B or blank,)	Mean Well	TF-1945	Class B
Alt. Transformer (T1) (For HLG-240H-36z, z=A, B or blank,)	Mean Well	TF-1946	Class B

변경발급 내용
Contents of Certificate Revisions

Alt.Transform mer (T1) (F or HLG-240 H-42z,z =A, B or blank,)	Mean Well	TF-1989	Class B
Alt.Transform mer (T1) (F or HLG-240 H-48z,z =A, B or blank,)	Mean Well	TF-1947	Class B
Alt. Transform mer (T1) (F or HLG-240 H-54z,z =A, B or blank,)	Mean Well	TF-1947	Class B
Alt.potting c ompound	SHIN-ETSU SI LICONE TAIWA N CO LTD	KET-132 A/ B	V-0,105°C
Alt.	SHIN-ETSU SI LICONE TAIWA N CO LTD	KET-132 A/ B H	V-0,105°C
Alt.	U-BOND TECH NOLOGY INC	UB-5203A/B	V-0,105°C
Alt.	RISEAST TECH NOLOGY COR PORATION	SSTCP	V-0,105°C
Alt.	DOW CORNIN G (SHANGHAI) CO LTD	TC-6011	V-0,105°C
Alt.power c ord	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F	3C X 0.75 mm ² 3C X1.0 mm ²

다수 공장의 현황
(The status of Multiple Factories)

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

접 수 번 호 : 21-082212-09-1
(Receipt No.)



안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 : SZ11007-13001E
(Certificate No.)

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

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

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

기 본 모 델 명 : HLG-240H-54
(Basic Model)

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

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 265 W
(Rating) (Output: DC 54 V, 4.45 A)

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

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

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

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

2022 년 01 월 11 일
Year month day

한국산업기술시험원
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)

다수 공장의 현황
(The status of Multiple Factories)

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

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

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST	T5A, 250 Vac	VDE
Alt.	Conquer	MST	T5A, 300 Vac	UL
Varistor (ZNR1)	Joyin	14N471K, 14S471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Centra	CNR14D471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Thinking	TVR14471-D	300 Vac, 385 Vdc	VDE, UL
Choke (LF1)	Mean Well	TR-889	130 ℃	Tested in appliance (TUV Rh)
Y- Capacitor (C3, C4)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	2200 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	2200 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	2200 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	2200 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	2200 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	2200 pF, 250 V, Y1	VDE, UL, S
Y- Capacitors (C23, C25)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	100 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	100 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	100 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	100 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	100 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	100 pF, 250 V, Y1	VDE, UL, S

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Y- Capacitors (C120)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	10000 pF, 250 Vac, Y1	ENEC, UL
Alt.	Murata	KX, KH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	Walsin	AC, AH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	TDK-EPC	CD, CS	10000 pF, 250 Vac, Y1	VDE, UL, S
X-capacitor (C1, C2, C7)	KEMET(Arcotronics)	R.41	300 Vac, 0.82 uF, X2	ENEC, UL
Alt.		R.46	300 Vac, 0.82 uF, X2	ENEC, UL
Alt.		R.49	310 Vac, 0.82 uF, X2	ENEC, UL
Alt.	Iskra	KNB 1530	300 Vac, 0.82 uF, X2	VDE, UL
Alt.		KNB 1560	300 Vac, 0.82 uF, X2	VDE, UL
Alt.	Shiny Space	SX1	300 Vac, 0.82 uF, X2	VDE, UL
Choke (LF2)	Mean Well	TR-915	130 ℃	Tested in appliance (TUV Rh)
Choke (L2)	Mean Well	TR-930	130 ℃	Tested in appliance (TUV Rh)
PFC Choke (L1)	Mean Well	TF-1940	130 ℃	Tested in appliance (TUV Rh)
Photo Coupler (U2, U3)	Lite-On	LTV-817, LTV-817M	dti=0.8 mm, Int.dcr=5.2 mm, Ext. dcr=7.8 mm	VDE, FI, UL, CUL, CSA
Alt.	Sharp	PC123	dti=0.7 mm Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CSA
Alt.	Cosmo	K1010	dti=0.7 mm, Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CUL, CSA
Bridging Capacitor (C31)	Murata	KX	1000 pF, 300 Vac, Y1	VDE, UL
Alt.	Walsin	AH	1000 pF, 300 Vac, Y1	VDE, ENEC, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	TDK-EPC	CD	1000 pF, 300 Vac, Y1	VDE, UL
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		
Transformer(T1) (For HLG-240H- 12z, z=A, B, or blank)	Yu Jing	TF-1941	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 15z, z=A, B, or blank)	Yu Jing	TF-1942	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 20z, z=A, B, or blank)	Yu Jing	TF-1943	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 24z, z=A, B, or blank)	Yu Jing	TF-1944	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 30z, z=A, B, or blank)	Yu Jing	TF-1945	Class B	Tested in appliance (TUV Rh)

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer(T1) (For HLG-240H-36z, z=A, B, or blank)	Yu Jing	TF-1946	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-42z, z=A, B, or blank)	Yu Jing	TF-1989	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-48z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-54z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Potting Compound	Dow Corning	Sylgard 160	V-0, 105 °C	UL
Alt.	Guangzhou Huitian Fine Chemical Ltd.	5299#	V-0, 105 °C	UL
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Dongguan Lucky United	245 IEC 51 H03RT-H	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ² 3C x 1.5 mm ²	KC
Alt.	I-sheng	60227 IEC 53	3G x 0.75 mm ² 3G x 1.0 mm ² 3G x 1.5 mm ² 3G x 2.5 mm ²	KC
Alt.	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 mm ²	KC
Alt.		K60227 IEC 53 H05VVH-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 mm ² -1.0 mm ²	3G x 0.75 mm ² -1.0 mm ²	KC
Alt.	Dongguan Lucky United Electric Wire & Cable Co., Ltd.	245 IEC 57 H05RN-F 2C-3CX0.75 mm ² -1 mm ²	3C x 0.75 mm ² -1.0 mm ²	KC
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 mm ² -4 mm ²	3G x 1.0 mm ² -4.0 mm ²	KC

☐ 유의사항 (Attention) :

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

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

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

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

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

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-240H-12	Identical except for output rating (DC12 V, 16 A)
HLG-240H-12A	Identical except for output rating(DC12 V, 16 A) and two openings with plastic objects on the top enclosure
HLG-240H-12B	Identical except for output rating (DC12 V, 16 A) and two set output cords (one is for adjust current load)
HLG-240H-15	Identical except for output rating (DC15 V, 15 A)
HLG-240H-15A	Identical except for output rating (DC15 V, 15 A) and two openings with plastic objects on the top enclosure
HLG-240H-15B	Identical except for output rating (DC15 V, 15 A) and two set output cords (one is for adjust current load)
HLG-240H-20	Identical except for output rating (DC20 V, 12 A)
HLG-240H-20A	Identical except for output rating (DC20 V, 12 A) and two openings with plastic objects on the top enclosure
HLG-240H-20B	Identical except for output rating (DC20 V, 12 A) and two set output cords (one is for adjust current load)
HLG-240H-24	Identical except for output rating (DC24 V, 10 A)
HLG-240H-24A	Identical except for output rating (DC24 V, 10 A) and two openings with plastic objects on the top enclosure
HLG-240H-24B	Identical except for output rating (DC24 V, 10 A) and two set output cords (one is for adjust current load)
HLG-240H-30	Identical except for output rating (DC30 V, 8 A)
HLG-240H-30A	Identical except for output rating (DC30 V, 8 A) and two openings with plastic objects on the top enclosure
HLG-240H-30B	Identical except for output rating (DC30 V, 8 A) and two set output cords (one is for adjust current load)
HLG-240H-36	Identical except for output rating (DC36 V, 6.7 A)
HLG-240H-36A	Identical except for output rating (DC36 V, 6.7 A) and two openings with plastic objects on the top enclosure
HLG-240H-36B	Identical except for output rating (DC36 V, 6.7 A) and two set output cords (one is for adjust current load)
HLG-240H-42	Identical except for output rating (DC42 V, 5.72 A)
HLG-240H-42A	Identical except for output rating (DC42 V, 5.72 A) and two openings with plastic objects on the top enclosure
HLG-240H-42B	Identical except for output rating (DC42 V, 5.72 A) and two set output cords (one is for adjust current load)
HLG-240H-48	Identical except for output rating (DC48 V, 5 A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-240H-48A	Identical except for output rating (DC48 V, 5 A) and two openings with plastic objects on the top enclosure
HLG-240H-48B	Identical except for output rating (DC48 V, 5 A) and two set output cords (one is for adjust current load)
HLG-240H-54A	Identical except for two openings with plastic objects on the top enclosure
HLG-240H-54B	Identical except for two set output cords (one is for adjust current load)
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Test report No. : 13-015788-01 (2013.06.11.) 2. Products Description - DC or AC supplied electronic controlgear for LED modules - 100-240 V~, 50/60 Hz, 2.7-1.1 A, 265 W (Output: DC54 V, 4.45 A) - tc 95 °C, ta 50 °C - Class of equipment : Class I - Constant voltage type - Independent controlgear - IP67 - Totally filled with potting within the enclosure * factory information - MEAN WELL (Guangzhou) Electronics Co.,Ltd. No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China	
□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험 담당자 / 연락처 : 디지털산업본부 전기전자기술센터 남 상엽 / (02)860-1427 □ If you have any question on product testing, please contact the person below : Job holder : S.M.A.R.T. Industry Division, Electrical and Electronic Technology Center, Sang-Yeop Nam/ +82 2 8601-1427	

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용
Contents of Certificate Revisions

1st Rev.) Addition of derivative models due to omission of models (14-051873-01)

- “ HLG-240H-48” , “ HLG-240H-48A” , “ HLG-240H-48B”

2nd Rev.) Addition of factory (16-015152-15 : 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

3rd Rev.) Change Addition factory name, address and president (16-067872-20 : 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

4th Rev.) Addition of components (17-021470-03 : 2017.04.17.)

- Addition of components

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

5th Rev.) Change name, president and address of factory (21-082212-09-1 : 2022.01.11.)

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

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

After : MEAN WELL (Guangzhou) Electronics Co.,Ltd. / Aden Wang

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

접 수 번 호 : 17-021470-03
(Receipt No.)



안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 : SZ11007-13001D
(Certificate No.)

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

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

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

기 본 모 델 명 : HLG-240H-54
(Basic Model)

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

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 265 W
(Rating) (Output: DC 54 V, 4.45 A)

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

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) or 10 (2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2017 년 04 월 19 일
Year month day

한국산업기술시험원
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)

다수 공장의 현황
(The status of Multiple Factories)

No	현황	
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.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST	T5A, 250 Vac	VDE
Alt.	Conquer	MST	T5A, 300 Vac	UL
Varistor (ZNR1)	Joyin	14N471K, 14S471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Centra	CNR14D471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Thinking	TVR14471-D	300 Vac, 385 Vdc	VDE, UL
Choke (LF1)	Mean Well	TR-889	130 ℃	Tested in appliance (TUV Rh)
Y- Capacitor (C3, C4)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	2200 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	2200 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	2200 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	2200 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	2200 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	2200 pF, 250 V, Y1	VDE, UL, S
Y- Capacitors (C23, C25)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	100 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	100 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	100 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	100 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	100 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	100 pF, 250 V, Y1	VDE, UL, S

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Y- Capacitors (C120)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	10000 pF, 250 Vac, Y1	ENEC, UL
Alt.	Murata	KX, KH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	Walsin	AC, AH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	TDK-EPC	CD, CS	10000 pF, 250 Vac, Y1	VDE, UL, S
X-capacitor (C1, C2, C7)	KEMET(Arcotronics)	R.41	300 Vac, 0.82 uF, X2	ENEC, UL
Alt.		R.46	300 Vac, 0.82 uF, X2	ENEC, UL
Alt.		R.49	310 Vac, 0.82 uF, X2	ENEC, UL
Alt.	Iskra	KNB 1530	300 Vac, 0.82 uF, X2	VDE, UL
Alt.		KNB 1560	300 Vac, 0.82 uF, X2	VDE, UL
Alt.	Shiny Space	SX1	300 Vac, 0.82 uF, X2	VDE, UL
Choke (LF2)	Mean Well	TR-915	130 °C	Tested in appliance (TUV Rh)
Choke (L2)	Mean Well	TR-930	130 °C	Tested in appliance (TUV Rh)
PFC Choke (L1)	Mean Well	TF-1940	130 °C	Tested in appliance (TUV Rh)
Photo Coupler (U2, U3)	Lite-On	LTV-817, LTV-817M	dti=0.8 mm, Int.dcr=5.2 mm, Ext. dcr=7.8 mm	VDE, FI, UL, CUL, CSA
Alt.	Sharp	PC123	dti=0.7 mm Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CSA
Alt.	Cosmo	K1010	dti=0.7 mm, Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CUL, CSA
Bridging Capacitor (C31)	Murata	KX	1000 pF, 300 Vac, Y1	VDE, UL
Alt.	Walsin	AH	1000 pF, 300 Vac, Y1	VDE, ENEC, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	TDK-EPC	CD	1000 pF, 300 Vac, Y1	VDE, UL
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		
Transformer(T1) (For HLG-240H- 12z, z=A, B, or blank)	Yu Jing	TF-1941	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 15z, z=A, B, or blank)	Yu Jing	TF-1942	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 20z, z=A, B, or blank)	Yu Jing	TF-1943	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 24z, z=A, B, or blank)	Yu Jing	TF-1944	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 30z, z=A, B, or blank)	Yu Jing	TF-1945	Class B	Tested in appliance (TUV Rh)

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer(T1) (For HLG-240H-36z, z=A, B, or blank)	Yu Jing	TF-1946	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-42z, z=A, B, or blank)	Yu Jing	TF-1989	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-48z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-54z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Potting Compound	Dow Corning	Sylgard 160	V-0, 105 °C	UL
Alt.	Guangzhou Huitian Fine Chemical Ltd.	5299#	V-0, 105 °C	UL
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Dongguan Lucky United	245 IEC 51 H03RT-H	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ² 3C x 1.5 mm ²	KC
Alt.	I-sheng	60227 IEC 53	3G x 0.75 mm ² 3G x 1.0 mm ² 3G x 1.5 mm ² 3G x 2.5 mm ²	KC
Alt.	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 mm ²	KC
Alt.		K60227 IEC 53 H05VVH-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 mm ² -1.0 mm ²	3G x 0.75 mm ² -1.0 mm ²	KC
Alt.	Dongguan Lucky United Electric Wire & Cable Co., Ltd	245 IEC 57 H05RN-F 2C-3CX0.75 mm ² -1 mm ²	3C x 0.75 mm ² -1.0 mm ²	KC
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 mm ² -4 mm ²	3G x 1.0 mm ² -4.0 mm ²	KC

☐ 유의사항 (Attention) :

- 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.
- 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.

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST	T5A, 250 Vac	VDE
Alt.	Conquer	MST	T5A, 300 Vac	UL
Varistor (ZNR1)	Joyin	14N471K, 14S471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Centra	CNR14D471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Thinking	TVR14471-D	300 Vac, 385 Vdc	VDE, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Choke (LF1)	Mean Well	TR-889	130 °C	Tested in appliance (TUV Rh)
Y- Capacitor (C3, C4)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	2200 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	2200 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	2200 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	2200 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	2200 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	2200 pF, 250 V, Y1	VDE, UL, S
Y- Capacitors (C23, C25)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	100 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	100 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	100 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	100 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	100 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	100 pF, 250 V, Y1	VDE, UL, S
Y- Capacitors (C120)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	10000 pF, 250 Vac, Y1	ENEC, UL
Alt.	Murata	KX, KH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	Walsin	AC, AH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	TDK-EPC	CD, CS	10000 pF, 250 Vac, Y1	VDE, UL, S
X-capacitor (C1, C2, C7)	KEMET(Arcotronics)	R.41	300 Vac, 0.82 uF, X2	ENEC, UL
Alt.		R.46	300 Vac, 0.82 uF, X2	ENEC, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.		R.49	310 Vac, 0.82 uF, X2	ENEC, UL
Alt.	Iskra	KNB 1530	300 Vac, 0.82 uF, X2	VDE, UL
Alt.		KNB 1560	300 Vac, 0.82 uF, X2	VDE, UL
Alt.	Shiny Space	SX1	300 Vac, 0.82 uF, X2	VDE, UL
Choke (LF2)	Mean Well	TR-915	130 °C	Tested in appliance (TUV Rh)
Choke (L2)	Mean Well	TR-930	130 °C	Tested in appliance (TUV Rh)
PFC Choke (L1)	Mean Well	TF-1940	130 °C	Tested in appliance (TUV Rh)
Photo Coupler (U2, U3)	Lite-On	LTV-817, LTV-817M	dti=0.8 mm, Int.dcr=5.2 mm, Ext. dcr=7.8 mm	VDE, FI, UL, CUL, CSA
Alt.	Sharp	PC123	dti=0.7 mm Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CSA
Alt.	Cosmo	K1010	dti=0.7 mm, Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CUL, CSA
Bridging Capacitor (C31)	Murata	KX	1000 pF, 300 Vac, Y1	VDE, UL
Alt.	Walsin	AH	1000 pF, 300 Vac, Y1	VDE, ENEC, UL
Alt.	TDK-EPC	CD	1000 pF, 300 Vac, Y1	VDE, UL
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D, JD-E	Min.V-1, 130 °C	UL
Alt.	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		
Alt.	HONG SHIEN ENTERPRISE CO LTD	03V-0		
Alt.	HONG WEI ENTERPRISES CO LTD	79		

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
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		
Transformer(T1) (For HLG-240H- 12z, z=A, B, or blank)	Yu Jing	TF-1941	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 15z, z=A, B, or blank)	Yu Jing	TF-1942	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 20z, z=A, B, or blank)	Yu Jing	TF-1943	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 24z, z=A, B, or blank)	Yu Jing	TF-1944	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 30z, z=A, B, or blank)	Yu Jing	TF-1945	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 36z, z=A, B, or blank)	Yu Jing	TF-1946	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 42z, z=A, B, or blank)	Yu Jing	TF-1989	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 48z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer(T1) (For HLG-240H-54z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Potting Compound	Dow Corning	Sylgard 160	V-0, 105 °C	UL
Alt.	Guangzhou Huitian Fine Chemical Ltd.	5299#	V-0, 105 °C	UL
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Dongguan Lucky United	245 IEC 51 H03RT-H	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ² 3C x 1.5 mm ²	KC
Alt.	I-sheng	60227 IEC 53	3G x 0.75 mm ² 3G x 1.0 mm ² 3G x 1.5 mm ² 3G x 2.5 mm ²	KC
Alt.	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 mm ²	KC
Alt.		K60227 IEC 53 H05VVH-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC
Alt.	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
☐ 유의사항 (Attention) : 1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다. <i>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.</i> 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. <i>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.</i>				

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

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-240H-12	Identical except for output rating (DC12 V, 16 A)
HLG-240H-12A	Identical except for output rating(DC12 V, 16 A) and two openings with plastic objects on the top enclosure
HLG-240H-12B	Identical except for output rating (DC12 V, 16 A) and two set output cords (one is for adjust current load)
HLG-240H-15	Identical except for output rating (DC15 V, 15 A)
HLG-240H-15A	Identical except for output rating (DC15 V, 15 A) and two openings with plastic objects on the top enclosure
HLG-240H-15B	Identical except for output rating (DC15 V, 15 A) and two set output cords (one is for adjust current load)
HLG-240H-20	Identical except for output rating (DC20 V, 12 A)
HLG-240H-20A	Identical except for output rating (DC20 V, 12 A) and two openings with plastic objects on the top enclosure
HLG-240H-20B	Identical except for output rating (DC20 V, 12 A) and two set output cords (one is for adjust current load)
HLG-240H-24	Identical except for output rating (DC24 V, 10 A)
HLG-240H-24A	Identical except for output rating (DC24 V, 10 A) and two openings with plastic objects on the top enclosure
HLG-240H-24B	Identical except for output rating (DC24 V, 10 A) and two set output cords (one is for adjust current load)
HLG-240H-30	Identical except for output rating (DC30 V, 8 A)
HLG-240H-30A	Identical except for output rating (DC30 V, 8 A) and two openings with plastic objects on the top enclosure
HLG-240H-30B	Identical except for output rating (DC30 V, 8 A) and two set output cords (one is for adjust current load)
HLG-240H-36	Identical except for output rating (DC36 V, 6.7 A)
HLG-240H-36A	Identical except for output rating (DC36 V, 6.7 A) and two openings with plastic objects on the top enclosure
HLG-240H-36B	Identical except for output rating (DC36 V, 6.7 A) and two set output cords (one is for adjust current load)
HLG-240H-42	Identical except for output rating (DC42 V, 5.72 A)
HLG-240H-42A	Identical except for output rating (DC42 V, 5.72 A) and two openings with plastic objects on the top enclosure
HLG-240H-42B	Identical except for output rating (DC42 V, 5.72 A) and two set output cords (one is for adjust current load)
HLG-240H-48	Identical except for output rating (DC48 V, 5 A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-240H-48A	Identical except for output rating (DC48 V, 5 A) and two openings with plastic objects on the top enclosure
HLG-240H-48B	Identical except for output rating (DC48 V, 5 A) and two set output cords (one is for adjust current load)
HLG-240H-54A	Identical except for two openings with plastic objects on the top enclosure
HLG-240H-54B	Identical except for two set output cords (one is for adjust current load)
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Test report No. : 13-015788-01 (2013.06.11.) 2. Products Description - DC or AC supplied electronic controlgear for LED modules - 100-240 V~, 50/60 Hz, 2.7-1.1 A, 265 W (Output: DC54 V, 4.45 A) - tc 95 °C, ta 50 °C - 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			
1 st Rev.) Addition of derivative models due to omission of models (14-051873-01)			
- “HLG-240H-48”, “HLG-240H-48A”, “HLG-240H-48B”			
2 nd Rev.) Addition of factory (16-015152-15 : 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			
3 rd Rev.) Change Addition factory name, address and president (16-067872-20 : 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			
4 th Rev.) Addition of components (17-021470-03 : 2017.04.17.)			
- Addition of components			
Component	Manufacturer	Model(Type)	Characteristics
Power Cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 mm ² -1.0 mm ²	3G x 0.75 mm ² -1.0 m m ²
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	245 IEC 57 H05RN-F 2C- 3CX0.75 mm ² -1 mm ²	3C x 0.75 mm ² -1.0 m m ²
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 mm ² -4 mm ²	3G x 1.0 mm ² -4.0 m m ²

FP511-06

접 수 번 호 : 16-067872-20
(Receipt No.)



전 기 용 품 안 전 인 증 서

Electrical Appliances Safety Certificate

안 전 인 증 번 호 (Certificate No.)	: SZ11007-13001C
제 조 업 자 명 (Manufacturer)	: MEAN WELL Enterprises Co., Ltd.
대 표 자 명 (President)	: Mr. Jerry Lin
제조공장의 주소 (Factory Address)	: No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
제 품 명 (Product)	: 조명기구용컨버터(LED용) (Electronic controlgear)
기 본 모 델 명 (Basic Model)	: HLG-240H-54
정 격 (Rating)	: AC100-240 V, 50/60 Hz, 265 W (Output: DC54 V, 4.45 A)
파 생 모 델 명 (Series Model)	: See the attachment 2
적 용 기 준 (Standard)	: K61347-1(2010-08), K61347-2-13(2012-12), K62384(2010-08)

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

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

2016 년 12 월 08 일
Year month day



한국산업기술시험원
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)

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.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST	T5A, 250 Vac	VDE
Alt.	Conquer	MST	T5A, 300 Vac	UL
Varistor (ZNR1)	Joyin	14N471K, 14S471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Centra	CNR14D471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Thinking	TVR14471-D	300 Vac, 385 Vdc	VDE, UL
Choke (LF1)	Mean Well	TR-889	130 ℃	Tested in appliance (TUV Rh)
Y- Capacitor (C3, C4)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	2200 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	2200 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	2200 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	2200 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	2200 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	2200 pF, 250 V, Y1	VDE, UL, S
Y- Capacitors (C23, C25)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	100 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	100 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	100 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	100 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	100 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	100 pF, 250 V, Y1	VDE, UL, S

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Y- Capacitors (C120)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	10000 pF, 250 Vac, Y1	ENEC, UL
Alt.	Murata	KX, KH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	Walsin	AC, AH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	TDK-EPC	CD, CS	10000 pF, 250 Vac, Y1	VDE, UL, S
X-capacitor (C1, C2, C7)	KEMET(Arcotronics)	R.41	300 Vac, 0.82 uF, X2	ENEC, UL
Alt.		R.46	300 Vac, 0.82 uF, X2	ENEC, UL
Alt.		R.49	310 Vac, 0.82 uF, X2	ENEC, UL
Alt.	Iskra	KNB 1530	300 Vac, 0.82 uF, X2	VDE, UL
Alt.		KNB 1560	300 Vac, 0.82 uF, X2	VDE, UL
Alt.	Shiny Space	SX1	300 Vac, 0.82 uF, X2	VDE, UL
Choke (LF2)	Mean Well	TR-915	130 ℃	Tested in appliance (TUV Rh)
Choke (L2)	Mean Well	TR-930	130 ℃	Tested in appliance (TUV Rh)
PFC Choke (L1)	Mean Well	TF-1940	130 ℃	Tested in appliance (TUV Rh)
Photo Coupler (U2, U3)	Lite-On	LTV-817, LTV-817M	dti=0.8 mm, Int.dcr=5.2 mm, Ext. dcr=7.8 mm	VDE, FI, UL, CUL, CSA
Alt.	Sharp	PC123	dti=0.7 mm Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CSA
Alt.	Cosmo	K1010	dti=0.7 mm, Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CUL, CSA
Bridging Capacitor (C31)	Murata	KX	1000 pF, 300 Vac, Y1	VDE, UL
Alt.	Walsin	AH	1000 pF, 300 Vac, Y1	VDE, ENEC, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	TDK-EPC	CD	1000 pF, 300 Vac, Y1	VDE, UL
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		
Transformer(T1) (For HLG-240H- 12z, z=A, B, or blank)	Yu Jing	TF-1941	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 15z, z=A, B, or blank)	Yu Jing	TF-1942	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 20z, z=A, B, or blank)	Yu Jing	TF-1943	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 24z, z=A, B, or blank)	Yu Jing	TF-1944	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 30z, z=A, B, or blank)	Yu Jing	TF-1945	Class B	Tested in appliance (TUV Rh)

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer(T1) (For HLG-240H-36z, z=A, B, or blank)	Yu Jing	TF-1946	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-42z, z=A, B, or blank)	Yu Jing	TF-1989	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-48z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-54z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Potting Compound	Dow Corning	Sylgard 160	V-0, 105 °C	UL
Alt.	Guangzhou Huitian Fine Chemical Ltd.	5299#	V-0, 105 °C	UL
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Dongguan Lucky United	245 IEC 51 H03RT-H	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ² 3C x 1.5 mm ²	KC
Alt.	I-sheng	60227 IEC 53	3G x 0.75 mm ² 3G x 1.0 mm ² 3G x 1.5 mm ² 3G x 2.5 mm ²	KC
Alt.	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 mm ²	KC
Alt.		K60227 IEC 53 H05VVH-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC
☐ 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. <i>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.</i> 2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품안전관리법 제 8 조제 1 항의 규정에 의한 안전인증취소 사유가 됨을 유의하시기 바랍니다. <i>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.</i>				

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-240H-12	Identical except for output rating (DC12 V, 16 A)
HLG-240H-12A	Identical except for output rating(DC12 V, 16 A) and two openings with plastic objects on the top enclosure
HLG-240H-12B	Identical except for output rating (DC12 V, 16 A) and two set output cords (one is for adjust current load)
HLG-240H-15	Identical except for output rating (DC15 V, 15 A)
HLG-240H-15A	Identical except for output rating (DC15 V, 15 A) and two openings with plastic objects on the top enclosure
HLG-240H-15B	Identical except for output rating (DC15 V, 15 A) and two set output cords (one is for adjust current load)
HLG-240H-20	Identical except for output rating (DC20 V, 12 A)
HLG-240H-20A	Identical except for output rating (DC20 V, 12 A) and two openings with plastic objects on the top enclosure
HLG-240H-20B	Identical except for output rating (DC20 V, 12 A) and two set output cords (one is for adjust current load)
HLG-240H-24	Identical except for output rating (DC24 V, 10 A)
HLG-240H-24A	Identical except for output rating (DC24 V, 10 A) and two openings with plastic objects on the top enclosure
HLG-240H-24B	Identical except for output rating (DC24 V, 10 A) and two set output cords (one is for adjust current load)
HLG-240H-30	Identical except for output rating (DC30 V, 8 A)
HLG-240H-30A	Identical except for output rating (DC30 V, 8 A) and two openings with plastic objects on the top enclosure
HLG-240H-30B	Identical except for output rating (DC30 V, 8 A) and two set output cords (one is for adjust current load)
HLG-240H-36	Identical except for output rating (DC36 V, 6.7 A)
HLG-240H-36A	Identical except for output rating (DC36 V, 6.7 A) and two openings with plastic objects on the top enclosure
HLG-240H-36B	Identical except for output rating (DC36 V, 6.7 A) and two set output cords (one is for adjust current load)
HLG-240H-42	Identical except for output rating (DC42 V, 5.72 A)
HLG-240H-42A	Identical except for output rating (DC42 V, 5.72 A) and two openings with plastic objects on the top enclosure
HLG-240H-42B	Identical except for output rating (DC42 V, 5.72 A) and two set output cords (one is for adjust current load)
HLG-240H-48	Identical except for output rating (DC48 V, 5 A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-240H-48A	Identical except for output rating (DC48 V, 5 A) and two openings with plastic objects on the top enclosure
HLG-240H-48B	Identical except for output rating (DC48 V, 5 A) and two set output cords (one is for adjust current load)
HLG-240H-54A	Identical except for two openings with plastic objects on the top enclosure
HLG-240H-54B	Identical except for two set output cords (one is for adjust current load)
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Test report No. : 13-015788-01 (2013.06.11.) 2. Products Description - DC or AC supplied electronic controlgear for LED modules - 100-240 V~, 50/60 Hz, 2.7-1.1 A, 265 W (Output: DC54 V, 4.45 A) - tc 95 °C, ta 50 °C - 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 정 재훈 / (02)860-1424 □ If you have any question on product testing, please contact the person below : Job holder : Certification Business Division, IT & Lighting Testing Center, Jae-Hoon Jung/+83 2 8601-424	

FP511-09-00

□ 첨부 3 : 전기용품안전인증의 변경 현황
Status of Certificate Revisions

변경발급 내용 Contents of Certificate Revisions
1st Rev.) Addition of derivative models due to omission of models (14-051873-01) - “ HLG-240H-48” , “ HLG-240H-48A” , “ HLG-240H-48B” 2nd Rev.) Addition of factory (16-015152-15 : 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 3rd Rev.) Change Addition factory name, address and president (16-067872-20 : 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 : 16-015152-15
(Receipt No.)



전 기 용 품 안 전 인 증 서

Electrical Appliances Safety Certificate

안 전 인 증 번 호 (Certificate No.)	: SZ11007-13001B
제 조 업 자 명 (Manufacturer)	: Mean Well Enterprises Co., Ltd.
대 표 자 명 (President)	: Mr. Jerry Lin
제조공장의 주소 (Factory Address)	: No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
제 품 명 (Product)	: 조명기구용컨버터(LED용) (Electronic controlgear)
기 본 모 델 명 (Basic Model)	: HLG-240H-54
정 격 (Rating)	: AC100-240 V, 50/60 Hz, 265 W (Output: DC54 V, 4.45 A)
파 생 모 델 명 (Series Model)	: See the attachment 2
적 용 기 준 (Standard)	: K61347-1(2010-08), K61347-2-13(2012-12), K62384(2010-08)

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

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

2016 년 03 월 24 일
Year month day



한국산업기술시험원
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)

다수의 공장 현황
(The status of Multiple Factories)

No	현황	
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.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST	T5A, 250 Vac	VDE
Alt.	Conquer	MST	T5A, 300 Vac	UL
Varistor (ZNR1)	Joyin	14N471K, 14S471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Centra	CNR14D471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Thinking	TVR14471-D	300 Vac, 385 Vdc	VDE, UL
Choke (LF1)	Mean Well	TR-889	130 ℃	Tested in appliance (TUV Rh)
Y- Capacitor (C3, C4)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	2200 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	2200 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	2200 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	2200 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	2200 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	2200 pF, 250 V, Y1	VDE, UL, S
Y- Capacitors (C23, C25)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	100 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	100 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	100 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	100 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	100 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	100 pF, 250 V, Y1	VDE, UL, S

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Y- Capacitors (C120)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	10000 pF, 250 Vac, Y1	ENEC, UL
Alt.	Murata	KX, KH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	Walsin	AC, AH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	TDK-EPC	CD, CS	10000 pF, 250 Vac, Y1	VDE, UL, S
X-capacitor (C1, C2, C7)	KEMET(Arcotronics)	R.41	300 Vac, 0.82 uF, X2	ENEC, UL
Alt.		R.46	300 Vac, 0.82 uF, X2	ENEC, UL
Alt.		R.49	310 Vac, 0.82 uF, X2	ENEC, UL
Alt.	Iskra	KNB 1530	300 Vac, 0.82 uF, X2	VDE, UL
Alt.		KNB 1560	300 Vac, 0.82 uF, X2	VDE, UL
Alt.	Shiny Space	SX1	300 Vac, 0.82 uF, X2	VDE, UL
Choke (LF2)	Mean Well	TR-915	130 °C	Tested in appliance (TUV Rh)
Choke (L2)	Mean Well	TR-930	130 °C	Tested in appliance (TUV Rh)
PFC Choke (L1)	Mean Well	TF-1940	130 °C	Tested in appliance (TUV Rh)
Photo Coupler (U2, U3)	Lite-On	LTV-817, LTV-817M	dti=0.8 mm, Int.dcr=5.2 mm, Ext. dcr=7.8 mm	VDE, FI, UL, CUL, CSA
Alt.	Sharp	PC123	dti=0.7 mm Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CSA
Alt.	Cosmo	K1010	dti=0.7 mm, Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CUL, CSA
Bridging Capacitor (C31)	Murata	KX	1000 pF, 300 Vac, Y1	VDE, UL
Alt.	Walsin	AH	1000 pF, 300 Vac, Y1	VDE, ENEC, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	TDK-EPC	CD	1000 pF, 300 Vac, Y1	VDE, UL
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D, JD-E	Min.V-1, 130 °C	UL
Alt.	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		
Alt.	HONG SHIEN ENTERPRISE CO LTD	03V-0		
Alt.	HONG WEI ENTERPRISES CO LTD	79		
Alt.	HSU TZU ELECTRONIC CO LTD	4V0		
Alt.	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		
Alt.	HSIANG KUO INDUSTRIAL CO LTD	76V0A		
Alt.	JIIN-YU	JY-001		
Alt.	COFAN	003		
Transformer(T1) (For HLG-240H- 12z, z=A, B, or blank)	Yu Jing	TF-1941	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 15z, z=A, B, or blank)	Yu Jing	TF-1942	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 20z, z=A, B, or blank)	Yu Jing	TF-1943	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 24z, z=A, B, or blank)	Yu Jing	TF-1944	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 30z, z=A, B, or blank)	Yu Jing	TF-1945	Class B	Tested in appliance (TUV Rh)

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer(T1) (For HLG-240H-36z, z=A, B, or blank)	Yu Jing	TF-1946	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-42z, z=A, B, or blank)	Yu Jing	TF-1989	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-48z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-54z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Potting Compound	Dow Corning	Sylgard 160	V-0, 105 °C	UL
Alt.	Guangzhou Huitian Fine Chemical Ltd.	5299#	V-0, 105 °C	UL
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Dongguan Lucky United	245 IEC 51 H03RT-H	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ² 3C x 1.5 mm ²	KC
Alt.	I-sheng	60227 IEC 53	3G x 0.75 mm ² 3G x 1.0 mm ² 3G x 1.5 mm ² 3G x 2.5 mm ²	KC
Alt.	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 mm ²	KC
Alt.		K60227 IEC 53 H05VVH-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC

☐ 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-240H-12	Identical except for output rating (DC12 V, 16 A)
HLG-240H-12A	Identical except for output rating(DC12 V, 16 A) and two openings with plastic objects on the top enclosure
HLG-240H-12B	Identical except for output rating (DC12 V, 16 A) and two set output cords (one is for adjust current load)
HLG-240H-15	Identical except for output rating (DC15 V, 15 A)
HLG-240H-15A	Identical except for output rating (DC15 V, 15 A) and two openings with plastic objects on the top enclosure
HLG-240H-15B	Identical except for output rating (DC15 V, 15 A) and two set output cords (one is for adjust current load)
HLG-240H-20	Identical except for output rating (DC20 V, 12 A)
HLG-240H-20A	Identical except for output rating (DC20 V, 12 A) and two openings with plastic objects on the top enclosure
HLG-240H-20B	Identical except for output rating (DC20 V, 12 A) and two set output cords (one is for adjust current load)
HLG-240H-24	Identical except for output rating (DC24 V, 10 A)
HLG-240H-24A	Identical except for output rating (DC24 V, 10 A) and two openings with plastic objects on the top enclosure
HLG-240H-24B	Identical except for output rating (DC24 V, 10 A) and two set output cords (one is for adjust current load)
HLG-240H-30	Identical except for output rating (DC30 V, 8 A)
HLG-240H-30A	Identical except for output rating (DC30 V, 8 A) and two openings with plastic objects on the top enclosure
HLG-240H-30B	Identical except for output rating (DC30 V, 8 A) and two set output cords (one is for adjust current load)
HLG-240H-36	Identical except for output rating (DC36 V, 6.7 A)
HLG-240H-36A	Identical except for output rating (DC36 V, 6.7 A) and two openings with plastic objects on the top enclosure
HLG-240H-36B	Identical except for output rating (DC36 V, 6.7 A) and two set output cords (one is for adjust current load)
HLG-240H-42	Identical except for output rating (DC42 V, 5.72 A)
HLG-240H-42A	Identical except for output rating (DC42 V, 5.72 A) and two openings with plastic objects on the top enclosure
HLG-240H-42B	Identical except for output rating (DC42 V, 5.72 A) and two set output cords (one is for adjust current load)
HLG-240H-48	Identical except for output rating (DC48 V, 5 A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-240H-48A	Identical except for output rating (DC48 V, 5 A) and two openings with plastic objects on the top enclosure
HLG-240H-48B	Identical except for output rating (DC48 V, 5 A) and two set output cords (one is for adjust current load)
HLG-240H-54A	Identical except for two openings with plastic objects on the top enclosure
HLG-240H-54B	Identical except for two set output cords (one is for adjust current load)
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Test report No. : 13-015788-01 (2013.06.11.) 2. Products Description - DC or AC supplied electronic controlgear for LED modules - 100-240 V~, 50/60 Hz, 2.7-1.1 A, 265 W (Output: DC54 V, 4.45 A) - tc 95 °C, ta 50 °C - 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 derivative models due to omission of models (14-051873-01) - "HLG-240H-48", "HLG-240H-48A", "HLG-240H-48B" 2nd Rev.) Addition of factory (16-015152-15 : 2016.03.24.) - Factory name : Mean Well (Guangzhou) Electronics Co., Ltd. - Address : 2nd Floor No.A Building, Yuean Ind. Park, Dongpu Town, TianHe, Guangzhou, P.R.China

FP511-11-00

접 수 번 호 : 14-051873-01
(Receipt No.)



전 기 용 품 안 전 인 증 서

Electrical Appliances Safety Certificate

안 전 인 증 번 호 : SZ11007-13001A
(Certificate No.)

제 조 업 자 명 : Mean Well Enterprises Co., Ltd.
(Manufacturer)

대 표 자 명 : Mr. Jerry Lin
(President)

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

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

기 본 모 델 명 : HLG-240H-54
(Basic Model)

정 격 : AC100-240 V, 50/60 Hz, 265 W (Output: DC54 V, 4.45 A)
(Rating)

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

적 용 기 준 : K61347-1(2010-08), K61347-2-13(2012-12), K62384(2010-08)
(Standard)

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

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

2014 년 10 월 30 일
Year month day



한국산업기술시험원
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)

□ 첨부 1 : 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST	T5A, 250 Vac	VDE
Alt.	Conquer	MST	T5A, 300 Vac	UL
Varistor (ZNR1)	Joyin	14N471K, 14S471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Centra	CNR14D471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Thinking	TVR14471-D	300 Vac, 385 Vdc	VDE, UL
Choke (LF1)	Mean Well	TR-889	130 ℃	Tested in appliance (TUV Rh)
Y- Capacitor (C3, C4)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	2200 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	2200 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	2200 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	2200 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	2200 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	2200 pF, 250 V, Y1	VDE, UL, S
Y- Capacitors (C23, C25)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	100 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	100 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	100 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	100 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	100 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	100 pF, 250 V, Y1	VDE, UL, S

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Y- Capacitors (C120)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	10000 pF, 250 Vac, Y1	ENEC, UL
Alt.	Murata	KX, KH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	Walsin	AC, AH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	TDK-EPC	CD, CS	10000 pF, 250 Vac, Y1	VDE, UL, S
X-capacitor (C1, C2, C7)	KEMET(Arcotronics)	R.41	300 Vac, 0.82 uF, X2	ENEC, UL
Alt.		R.46	300 Vac, 0.82 uF, X2	ENEC, UL
Alt.		R.49	310 Vac, 0.82 uF, X2	ENEC, UL
Alt.	Iskra	KNB 1530	300 Vac, 0.82 uF, X2	VDE, UL
Alt.		KNB 1560	300 Vac, 0.82 uF, X2	VDE, UL
Alt.	Shiny Space	SX1	300 Vac, 0.82 uF, X2	VDE, UL
Choke (LF2)	Mean Well	TR-915	130 ℃	Tested in appliance (TUV Rh)
Choke (L2)	Mean Well	TR-930	130 ℃	Tested in appliance (TUV Rh)
PFC Choke (L1)	Mean Well	TF-1940	130 ℃	Tested in appliance (TUV Rh)
Photo Coupler (U2, U3)	Lite-On	LTV-817, LTV-817M	dti=0.8 mm, Int.dcr=5.2 mm, Ext. dcr=7.8 mm	VDE, FI, UL, CUL, CSA
Alt.	Sharp	PC123	dti=0.7 mm Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CSA
Alt.	Cosmo	K1010	dti=0.7 mm, Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CUL, CSA
Bridging Capacitor (C31)	Murata	KX	1000 pF, 300 Vac, Y1	VDE, UL
Alt.	Walsin	AH	1000 pF, 300 Vac, Y1	VDE, ENEC, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	TDK-EPC	CD	1000 pF, 300 Vac, Y1	VDE, UL
PCB	SHUNDE JUNDA ELECTRONIC CO LTD	JD-D, JD-E	Min.V-1, 130 °C	UL
Alt.	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DGV0-3A		
Alt.	HONG SHIEN ENTERPRISE CO LTD	03V-0		
Alt.	HONG WEI ENTERPRISES CO LTD	79		
Alt.	HSU TZU ELECTRONIC CO LTD	4V0		
Alt.	SHANGHAI WANZHENG CIRCUIT BOARD CO LTD	SWZ-1		
Alt.	HSIANG KUO INDUSTRIAL CO LTD	76V0A		
Alt.	JIIN-YU	JY-001		
Alt.	COFAN	003		
Transformer(T1) (For HLG-240H- 12z, z=A, B, or blank)	Yu Jing	TF-1941	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 15z, z=A, B, or blank)	Yu Jing	TF-1942	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 20z, z=A, B, or blank)	Yu Jing	TF-1943	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 24z, z=A, B, or blank)	Yu Jing	TF-1944	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 30z, z=A, B, or blank)	Yu Jing	TF-1945	Class B	Tested in appliance (TUV Rh)

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer(T1) (For HLG-240H-36z, z=A, B, or blank)	Yu Jing	TF-1946	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-42z, z=A, B, or blank)	Yu Jing	TF-1989	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-48z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-54z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Potting Compound	Dow Corning	Sylgard 160	V-0, 105 °C	UL
Alt.	Guangzhou Huitian Fine Chemical Ltd.	5299#	V-0, 105 °C	UL
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Dongguan Lucky United	245 IEC 51 H03RT-H	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ² 3C x 1.5 mm ²	KC
Alt.	I-sheng	60227 IEC 53	3G x 0.75 mm ² 3G x 1.0 mm ² 3G x 1.5 mm ² 3G x 2.5 mm ²	KC
Alt.	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 mm ²	KC
Alt.		K60227 IEC 53 H05VVH-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC

☐ 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-240H-12	Identical except for output rating (DC12 V, 16 A)
HLG-240H-12A	Identical except for output rating(DC12 V, 16 A) and two openings with plastic objects on the top enclosure
HLG-240H-12B	Identical except for output rating (DC12 V, 16 A) and two set output cords (one is for adjust current load)
HLG-240H-15	Identical except for output rating (DC15 V, 15 A)
HLG-240H-15A	Identical except for output rating (DC15 V, 15 A) and two openings with plastic objects on the top enclosure
HLG-240H-15B	Identical except for output rating (DC15 V, 15 A) and two set output cords (one is for adjust current load)
HLG-240H-20	Identical except for output rating (DC20 V, 12 A)
HLG-240H-20A	Identical except for output rating (DC20 V, 12 A) and two openings with plastic objects on the top enclosure
HLG-240H-20B	Identical except for output rating (DC20 V, 12 A) and two set output cords (one is for adjust current load)
HLG-240H-24	Identical except for output rating (DC24 V, 10 A)
HLG-240H-24A	Identical except for output rating (DC24 V, 10 A) and two openings with plastic objects on the top enclosure
HLG-240H-24B	Identical except for output rating (DC24 V, 10 A) and two set output cords (one is for adjust current load)
HLG-240H-30	Identical except for output rating (DC30 V, 8 A)
HLG-240H-30A	Identical except for output rating (DC30 V, 8 A) and two openings with plastic objects on the top enclosure
HLG-240H-30B	Identical except for output rating (DC30 V, 8 A) and two set output cords (one is for adjust current load)
HLG-240H-36	Identical except for output rating (DC36 V, 6.7 A)
HLG-240H-36A	Identical except for output rating (DC36 V, 6.7 A) and two openings with plastic objects on the top enclosure
HLG-240H-36B	Identical except for output rating (DC36 V, 6.7 A) and two set output cords (one is for adjust current load)
HLG-240H-42	Identical except for output rating (DC42 V, 5.72 A)
HLG-240H-42A	Identical except for output rating (DC42 V, 5.72 A) and two openings with plastic objects on the top enclosure
HLG-240H-42B	Identical except for output rating (DC42 V, 5.72 A) and two set output cords (one is for adjust current load)
HLG-240H-48	Identical except for output rating (DC48 V, 5 A)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-240H-48A	<i>Identical except for output rating (DC48 V, 5 A) and two openings with plastic objects on the top enclosure</i>
HLG-240H-48B	<i>Identical except for output rating (DC48 V, 5 A) and two set output cords (one is for adjust current load)</i>
HLG-240H-54A	Identical except for two openings with plastic objects on the top enclosure
HLG-240H-54B	Identical except for two set output cords (one is for adjust current load)
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Test report No. : 13-015788-01 (2013.06.11.) 2. Products Description - DC or AC supplied electronic controlgear for LED modules - 100-240 V~, 50/60 Hz, 2.7-1.1 A, 265 W (Output: DC54 V, 4.45 A) - tc 95 °C, ta 50 °C - 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 □ <i>If you have any question on product testing, please contact the person below :</i> <i>Job holder : Electrical and Electronic Division, Lighting Appliances & Electrical Components Testing Center,</i> <i>Jae-Hoon Jung/+82 2 8601-424</i>	

FP511-09-00

□ 첨부 3 : 전기용품안전인증의 변경 현황
Status of Certificate Revisions

변경발급 내용 Contents of Certificate Revisions
1 st Rev.) Addition of derivative models due to omission of models (14-051873-01) - “ HLG-240H-48” , “ HLG-240H-48A” , “ HLG-240H-48B”

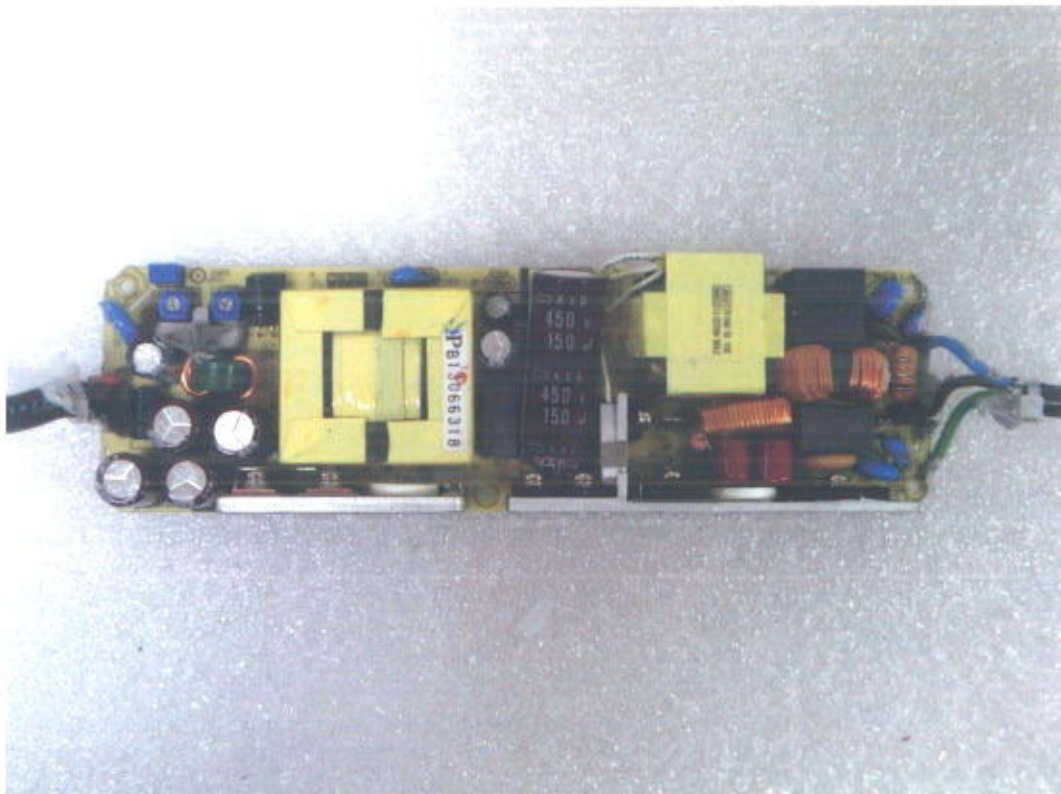
FP511-11-00

□ 첨부 : 제품사진
Photographs

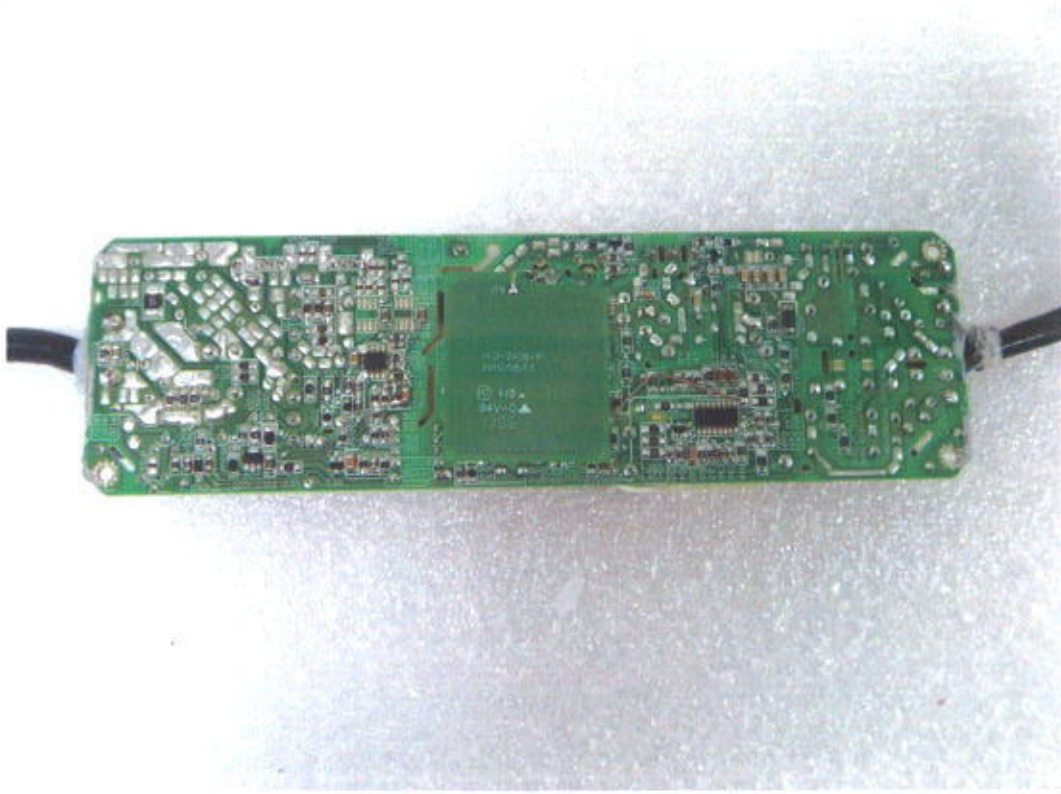
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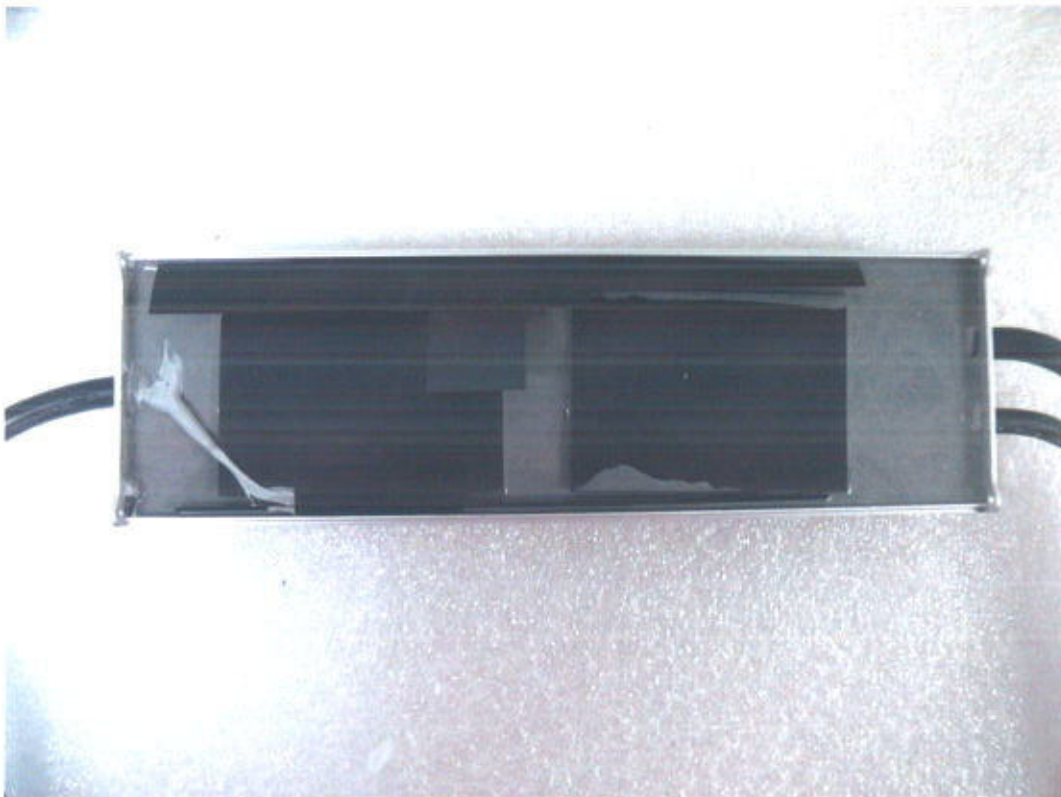
<사진 2>



<사진 3>



<사진 4>



접수번호 : 13-015788-01
(Receipt No.)



전기용품안전인증서

Electrical Appliances Safety Certificate

안전인증번호 (Certificate No.)	: SZ11007-13001
제조업자명 (Factory)	: Mean Well Enterprises Co., Ltd.
대표자명 (President)	: Mr. Jerry Lin
제조공장소재지 (Factory Address)	: No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)
제품명 (Product)	: 조명기구용컨버터(LED용) (Electronic controlgear)
기본모델명 (Basic Model)	: HLG-240H-54
정격 (Rating)	: AC100-240 V, 50/60 Hz, 265 W (Output: DC54 V, 4.45 A)
파생모델명 (Series Model)	: See the attachment 2
적용기준 (Standard)	: K61347-1(2010-08), K61347-2-13(2012-12), K62384(2010-08)

「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 06월 13일



한국산업기술시험원
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.

- 첨부 : (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)

☐ 첨부 1 : 안전관리부품 및 재질목록
List of Critical Components

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Fuse (FS1)	Conquer	MST	T5A, 250 Vac	VDE
Alt.	Conquer	MST	T5A, 300 Vac	UL
Varistor (ZNR1)	Joyin	14N471K, 14S471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Centra	CNR14D471K	300 Vac, 385 Vdc	VDE, UL
Alt.	Thinking	TVR14471-D	300 Vac, 385 Vdc	VDE, UL
Choke (LF1)	Mean Well	TR-889	130 ℃	Tested in appliance (TUV Rh)
Y- Capacitor (C3, C4)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	2200 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	2200 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	2200 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	2200 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	2200 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	2200 pF, 250 V, Y1	VDE, UL, S
Y- Capacitors (C23, C25)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	100 pF, 300 V, Y1	ENEC, UL
Alt.	Murata	KX, KH	100 pF, 300 V, Y1	VDE, UL
Alt.	Walsin	AC	100 pF, 250 V, Y1	VDE, UL
Alt.	Walsin	AH	100 pF, 300 V, Y1	VDE, UL
Alt.	TDK-EPC	CD	100 pF, 300 V, Y1	VDE, UL, S
Alt.	TDK-EPC	CS	100 pF, 250 V, Y1	VDE, UL, S

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Y- Capacitors (C120)	KEMET(Arcotronics)	R.41 MKT, R.41 MKP	10000 pF, 250 Vac, Y1	ENEC, UL
Alt.	Murata	KX, KH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	Walsin	AC, AH	10000 pF, 250 Vac, Y1	VDE, UL
Alt.	TDK-EPC	CD, CS	10000 pF, 250 Vac, Y1	VDE, UL, S
X-capacitor (C1, C2, C7)	KEMET(Arcotronics)	R.41	300 Vac, 0.82 uF, X2	ENEC, UL
Alt.		R.46	300 Vac, 0.82 uF, X2	ENEC, UL
Alt.		R.49	310 Vac, 0.82 uF, X2	ENEC, UL
Alt.	Iskra	KNB 1530	300 Vac, 0.82 uF, X2	VDE, UL
Alt.		KNB 1560	300 Vac, 0.82 uF, X2	VDE, UL
Alt.	Shiny Space	SX1	300 Vac, 0.82 uF, X2	VDE, UL
Choke (LF2)	Mean Well	TR-915	130 ℃	Tested in appliance (TUV Rh)
Choke (L2)	Mean Well	TR-930	130 ℃	Tested in appliance (TUV Rh)
PFC Choke (L1)	Mean Well	TF-1940	130 ℃	Tested in appliance (TUV Rh)
Photo Coupler (U2, U3)	Lite-On	LTV-817, LTV-817M	dti=0.8 mm, Int.dcr=5.2 mm, Ext. dcr=7.8 mm	VDE, FI, UL, CUL, CSA
Alt.	Sharp	PC123	dti=0.7 mm Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CSA
Alt.	Cosmo	K1010	dti=0.7 mm, Int. dcr=5 mm Ext. dcr=8 mm	VDE, FI, UL, CUL, CSA
Bridging Capacitor (C31)	Murata	KX	1000 pF, 300 Vac, Y1	VDE, UL
Alt.	Walsin	AH	1000 pF, 300 Vac, Y1	VDE, ENEC, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	TDK-EPC	CD	1000 pF, 300 Vac, Y1	VDE, UL
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		
Transformer(T1) (For HLG-240H- 12z, z=A, B, or blank)	Yu Jing	TF-1941	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 15z, z=A, B, or blank)	Yu Jing	TF-1942	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 20z, z=A, B, or blank)	Yu Jing	TF-1943	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 24z, z=A, B, or blank)	Yu Jing	TF-1944	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H- 30z, z=A, B, or blank)	Yu Jing	TF-1945	Class B	Tested in appliance (TUV Rh)

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer(T1) (For HLG-240H-36z, z=A, B, or blank)	Yu Jing	TF-1946	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-42z, z=A, B, or blank)	Yu Jing	TF-1989	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-48z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Transformer(T1) (For HLG-240H-54z, z=A, B, or blank)	Yu Jing	TF-1947	Class B	Tested in appliance (TUV Rh)
Potting Compound	Dow Corning	Sylgard 160	V-0, 105 ℃	UL
Alt.	Guangzhou Huitian Fine Chemical Ltd.	5299#	V-0, 105 ℃	UL
Power Cord	Dongguan Lucky United	245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Dongguan Lucky United	245 IEC 51 H03RT-H	3C x 0.75 mm ² 3C x 1 mm ²	KC
Alt.	Guangdong Rifeng	60245 IEC 57 H05RN-F	3C x 0.75 mm ² 3C x 1 mm ² 3C x 1.5 mm ²	KC
Alt.	I-sheng	60227 IEC 53	3G x 0.75 mm ² 3G x 1.0 mm ² 3G x 1.5 mm ² 3G x 2.5 mm ²	KC
Alt.	Foxconn	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Fuyu	K60227 IEC 52 (H03VV-F)	3G x 0.75 mm ²	KC
Alt.		K60227 IEC 53 (H05VV-F)	3G x 0.75 mm ² 3G x 1.0 mm ²	KC
Alt.	Dong Guan Well Shin	K60227 IEC 52 H03VV-F	3C x 0.75 mm ²	KC
Alt.		K60227 IEC 53 H05VVH-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Ta Hsing Electric Wire & Cable	H05VV-F	3C x 0.75 mm ² 3C x 1.0 mm ² 3C x 1.5 mm ² 3C x 2.0 mm ² 3C x 2.5 mm ²	KC

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General description of Certified Products

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HLG-240H-12	Identical except for output rating (DC12 V, 16 A)
HLG-240H-12A	Identical except for output rating(DC12 V, 16 A) and two openings with plastic objects on the top enclosure
HLG-240H-12B	Identical except for output rating (DC12 V, 16 A) and two set output cords (one is for adjust current load)
HLG-240H-15	Identical except for output rating (DC15 V, 15 A)
HLG-240H-15A	Identical except for output rating (DC15 V, 15 A) and two openings with plastic objects on the top enclosure
HLG-240H-15B	Identical except for output rating (DC15 V, 15 A) and two set output cords (one is for adjust current load)
HLG-240H-20	Identical except for output rating (DC20 V, 12 A)
HLG-240H-20A	Identical except for output rating (DC20 V, 12 A) and two openings with plastic objects on the top enclosure
HLG-240H-20B	Identical except for output rating (DC20 V, 12 A) and two set output cords (one is for adjust current load)
HLG-240H-24	Identical except for output rating (DC24 V, 10 A)
HLG-240H-24A	Identical except for output rating (DC24 V, 10 A) and two openings with plastic objects on the top enclosure
HLG-240H-24B	Identical except for output rating (DC24 V, 10 A) and two set output cords (one is for adjust current load)
HLG-240H-30	Identical except for output rating (DC30 V, 8 A)
HLG-240H-30A	Identical except for output rating (DC30 V, 8 A) and two openings with plastic objects on the top enclosure
HLG-240H-30B	Identical except for output rating (DC30 V, 8 A) and two set output cords (one is for adjust current load)
HLG-240H-36	Identical except for output rating (DC36 V, 6.7 A)
HLG-240H-36A	Identical except for output rating (DC36 V, 6.7 A) and two openings with plastic objects on the top enclosure
HLG-240H-36B	Identical except for output rating (DC36 V, 6.7 A) and two set output cords (one is for adjust current load)
HLG-240H-42	Identical except for output rating (DC42 V, 5.72 A)
HLG-240H-42A	Identical except for output rating (DC42 V, 5.72 A) and two openings with plastic objects on the top enclosure
HLG-240H-42B	Identical except for output rating (DC42 V, 5.72 A) and two set output cords (one is for adjust current load)

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-240H-54A	Identical except for two openings with plastic objects on the top enclosure
HLG-240H-54B	Identical except for two set output cords (one is for adjust current load)
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Test report No. : 13-015788-01 (2013.06.11.) 2. Products Description - DC or AC supplied electronic controlgear for LED modules - 100-240 V~, 50/60 Hz, 2.7-1.1 A, 265 W (Output: DC54 V, 4.45 A) - tc 95 ℃, ta 50 ℃ - 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 광응합/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

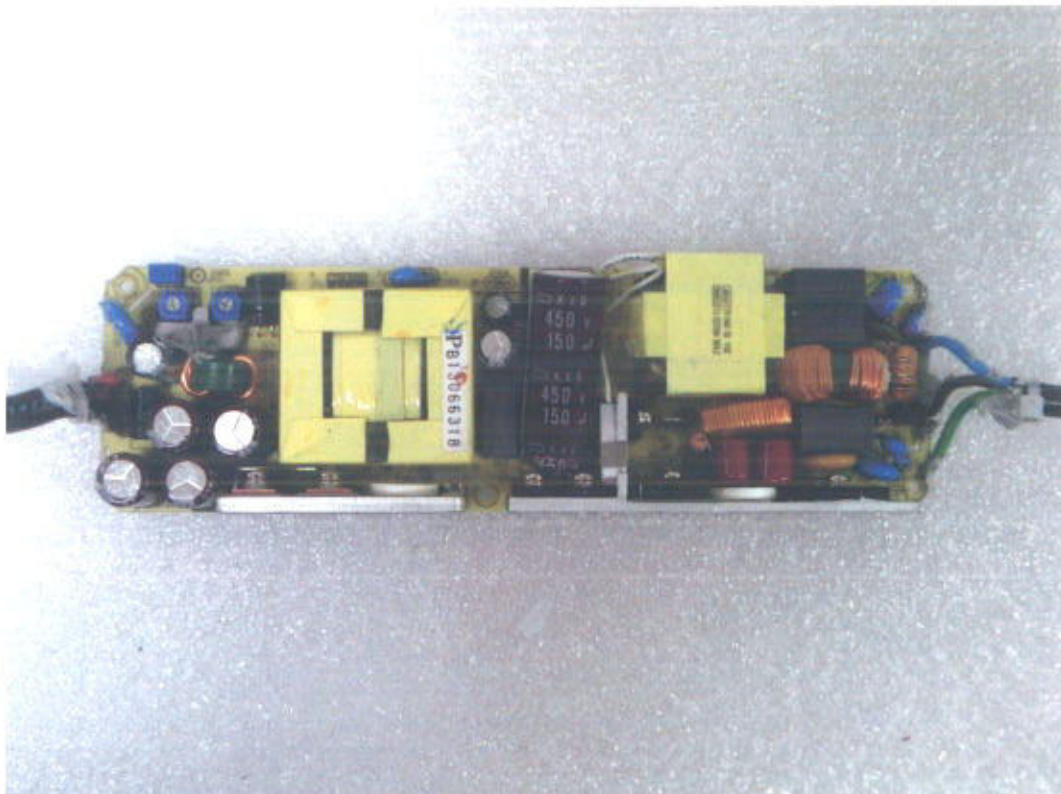
FP511-11-00

□ 첨부 : 제품사진
Photographs

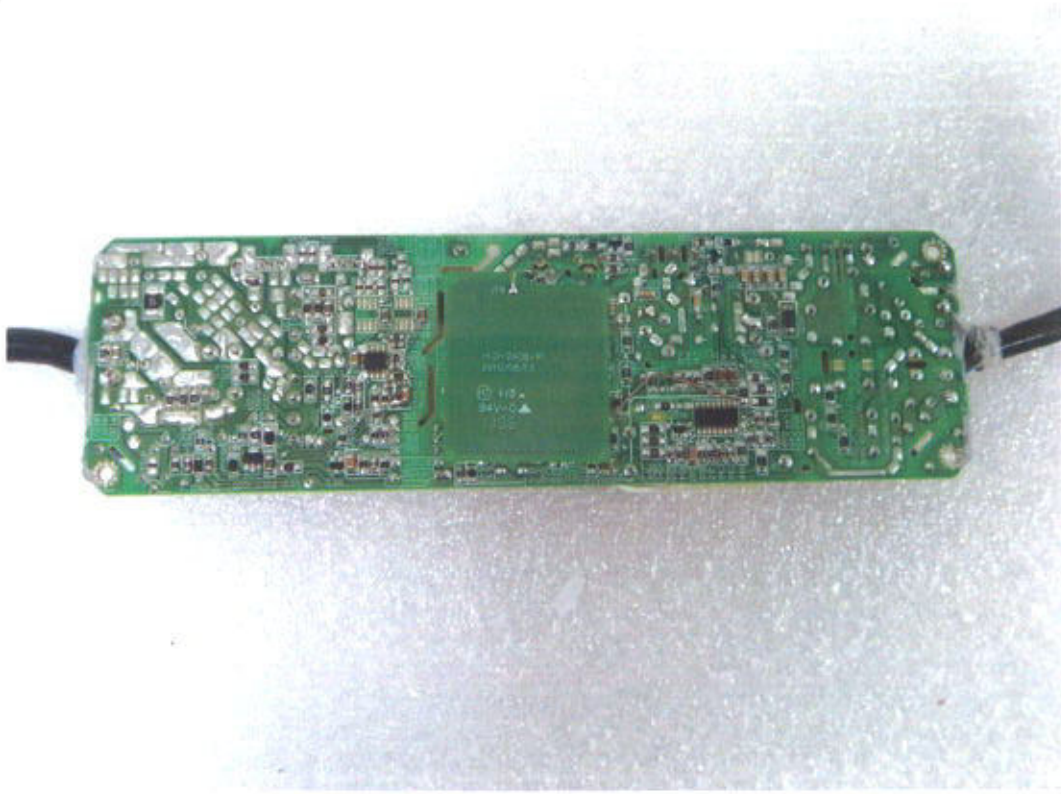
<사진 1>



<사진 2>



<사진 3>



<사진 4>

