

접수 번호 : 23-058789-01-1
(Receipt No.)



안전인증서

Safety Certificate

안전인증번호 : SZ11007-16002C
(Certificate No.)

제조사/수입업자명 : MEAN WELL Enterprises Co., Ltd.
(Manufacturer/importer)

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

제품명 : 조명기구용컨버터(LED용)
(Product) (Electronic controlgear)

기본모델명 : HLG-600H-54B
(Basic Model)

파생모델명 : See the attachment 2
(Series Model)

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 652 W (Output: DC 54 V, 11.2 A)
(Rating)

시험기준 : KC61347-1(2022-02), KC61347-2-13(2022-02)
(Standard)

본 인증서는 제조국명 : 대만
제조사명 : 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 11 월 02 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)
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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
PCB Material	Junda	JD-D	Min. V-1, 130 °C	UL
Alt.	Taihe	THS	Min. V-1, 130 °C	UL
Alt.	Taihe	THD	Min. V-1, 130 °C	UL
Alt.	GUANGDONG CHAOHUA	C-103	Min. V-1, 130 °C	UL
Alt.	Junda	JD-E	Min. V-1, 130 °C	UL
Alt.	Hong Shien	03V-0	Min. V-1, 130 °C	UL
Alt.	Hong Shien	-D	Min. V-1, 130 °C	UL
Alt.	Hong Shien	-M	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	4V0	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	DV2	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	MV1	Min. V-1, 130 °C	UL
Alt.	Jiin-Yu	JY-001	Min. V-1, 130 °C	UL
Alt.	Jiin-Yu	JY-003	Min. V-1, 130 °C	UL
Alt.	Shanghai Wanzheng	SWZ-1	Min. V-1, 130 °C	UL
Alt.	Junda	JD-D1	Min. V-1, 130 °C	UL
Alt.	GUANGDONG CHAOHUA	C-104, C-109	Min. V-1, 130 °C	UL
Alt.	JIANGSU DIFEIDA	DFD-2	Min. V-0, 130 °C	UL
Alt.	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, 130 °C	UL
Alt.	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, 130 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, 130 °C	UL
Alt.	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T, ML- 401	Min. V-0, 130 °C	UL
Input cord	Dongguan Lucky U nited Electric Wire & Cable Co., Ltd.	245 IEC 57 H05 RN-F 2C-3Cx0.75 mm ² - 1 mm ²	300/500 V, 3 x 0.75 mm ² - 1 mm ²	KC
Alt.	Shanghai Yusheng Enterprise Develop ment Co., Ltd	K60245 IEC 57 3Cx1.5 mm ² , K60245 IEC 57 2C-5Cx0.75 mm ² - 2.5 mm ²	300/500 V 3 x 1.5 mm ² , 3 x 0.75 mm ² -2.5 mm ²	KC
Alt.	Dongguan Ever Uni ted Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 mm ² -1.0 mm ²	300/500 V, 3 x 0.75 mm ² -1.0 mm ²	KC
Alt.	Dongguan Ever Uni ted Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 mm ² -4 mm ²	450/750 V 3 x 1.0 mm ² -4.0 mm ²	KC
Alt.	I-Sheng Electronics (Kunshan) Co., Ltd	60245 IEC 66 (H07RN-F) (3/4/5)x (1/1.5/ 2.5)mm ²	450/750 V, 3 x (1/1.5/2.5)mm ²	KC
Alt.	Shanghai YuSheng Enterprise Develop ment Co.,Ltd.	60245 IEC66 (H 07RN-F) 3Cx1.0, 1.5,2.5,4 mm ²	450/750 V, 3 x (1/1.5/2.5/4)mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 57 (H 05RN-F) 3x1.0 mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 66 (H 07RN-F) 3x1.0 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Ta Tun Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H 05RN-F), 3G 1.0 mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 57 (H05RN- F) 3x1.0mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 66 (H07RN- F) 3x1.0mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Recheer Electric Wire & Cabl e Co., Ltd	60245 IEC 57 (H0 5RN-F), 3x 0.75/1.0/1.5/2.5 mm ²	300/500 V, 3 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.	Dongguan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 66 (H07RN-F) (2-5)×(1.0-2.5)mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	I-Sheng Electronics (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) (3/4/5)×(0.75/1)mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3×1.0mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC66 (H07RN-F) 2~5×1.0~2.5 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	H07RN-F 2-4X1.0mm ² -2.5mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F 2C-3CX0.75mm²-1mm²	300/500 V , 3x0.75 mm²-1 mm²	KC
Fuse (FS1)	Conquer	MST	300 V, T8A	VDE
Varistor (ZNR1, ZNR2, ZNR3)	Centra Science	CNR14D511K	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Joyin	10S511K	AC320 V, DC418 V, 85°C	VDE, UL
Alt.	Joyin	14S511K	AC320 V, DC418 V, 85 °C	VDE, UL
Alt.	Joyin	14N511K	AC320 V, DC418 V, 85 °C	VDE, UL
Alt.	Thinking	TVR10511	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR10511-V	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR10511-D	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511-V	AC320 V, DC420 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511-D	AC320 V, DC410 V, 85 °C	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.	Thinking	TVR14511-M TVR10511-M	AC320 V, DC410 V, 125 °C	VDE, UL
Alt.	Thinking	TVR10471-M TVR14471-M	AC300 V, DC385 V, 125 °C	VDE, UL
Alt.	Thinking	TVR10561-M TVR14561-M	AC350 V, DC450 V, 125 °C	VDE, UL
Alt.	Huiwan	V-471K-10DEH, V-471K-14DEH	AC 300 V, DC 385 V, 125 °C	UL
Alt.	Huiwan	V-511K-10DEH, V-511K-14DEH	AC 320 V, DC 415 V, 125 °C	UL
Alt.	Huiwan	V-561K-10DEH, V-561K-14DEH	AC 350 V, DC 450 V, 125 °C	UL
X-Capacitor (C1, C2) (X1 or X2 type)	Kemet (Arcotronics)	R.46	Min. AC 250 V, Max.1.5 uF	VDE
Alt.	Epcos	B3292#	Min. AC 250 V, Max.1.5 uF	VDE
Alt.	Liow Gu	GS-L	Min. AC 250 V, Max.1.5 uF	VDE
Alt.	Ultra Tech	HQX	Min. AC 250 V, Max.1.5 uF	VDE
Alt.	Hua Jung	MKP	Min. AC 250 V, Max.1.5 uF	VDE
Alt.	Carli	MPX	Min. AC 250 V, Max.1.5 uF	VDE
Alt.	Joey	MPX	Min. AC 250 V, Max.1.5 uF	VDE
Alt.	Nissei	MP1	Min. AC 250 V, Max.1.5 uF	VDE
Y-Capacitor (C3, C4, C21, C22, C2 3, C24, C30) (Y1 type or Y2 type)	Murata	KX, KH, KY	Min. AC 250 V, Max.1 000 pF	VDE
Alt.	Walsin	AC, AH	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	TDK-EPC	CD, CS	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	VISHAY	VY1	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Huiwan	AR	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Huiwan	AB	Min. AC 250 V, Max. 1 000 pF	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Wanming	HJ	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Wanming	HM	Min. AC 250 V, Max. 1 000 pF	VDE
Bridging Capacitor (C31) (Y1 type)	Murata	KX, KH, KY	Min. AC 250 V, Max. 2200 pF, 125 °C	VDE
Alt.	Walsin	AC, AH	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	TDK-EPC	CD, CS	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	VISHAY	VY1	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	Huiwan	AR	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	Wanming	HJ	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Choke (LF1)	Mean Well	TR-1144	Min. 105 °C	Tested with appliance (Nemko)
Choke (LF2, LF3)	Mean Well	TR-1145	Min. 105 °C	Tested with appliance (Nemko)
Choke (L2, L3)	Mean Well	TF-2689	Min. 105 °C	Tested with appliance (Nemko)
Photo Coupler (U3,U4, U5, U50 2, U503)	Lite-On	LTV-817, LTV-817M	Dti= 0.8 mm Int. dcr= 5.2 mm Ext. dcr= 7.0 mm, thermal cycling test, 115 °C	VDE, UL
Alt.	Sharp	PC123	Dti= 0.7 mm Int. dcr= 5 mm Ext. dcr= 8.0 mm, thermal cycling test, 110 °C	VDE, UL
Alt.	Cosmo	K1010	Dti= 0.5 mm Int. dcr= 5.3 mm Ext. dcr= 8 m m, thermal cycling tes t, 115 °C	VDE, UL
Alt.	Renesas	PS2561DL1-1	Dti= 0.4 mm Ext. dcr= 8 mm, thermal cycling test, 110 °C	VDE, UL
Alt.	CT-Micro	CT817	Dti=0.4 mm Int. dcr=5.3 mm Ext. dcr=8.0 mm, thermal cycling test, 100 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1, T2)(For HLG-600H-12, HLG-600H-12B)	Mean Well	TF-2679	Class B	Tested with appliance (Nemko)
Transformer (T1, T2)(For HLG-600H-24, HLG-600H-24B)	Mean Well	TF-2682	Class B	Tested with appliance (Nemko)
Transformer (T1, T2)(For HLG-600H-30, HLG-600H-30B)	Mean Well	TF-2683	Class B	Tested with appliance (Nemko)
Transformer (T1, T2)(For HLG-600H-36, HLG-600H-36B)	Mean Well	TF-2684	Class B	Tested with appliance (Nemko)
Transformer (T1, T2)(For HLG-600H-42, HLG-600H-42B)	Mean Well	TF-2685	Class B	Tested with appliance (Nemko)
Transformer (T1, T2)(For HLG-600H-48, HLG-600H-48B)	Mean Well	TF-2686	Class B	Tested with appliance (Nemko)
Transformer (T1, T2)(For HLG-600H-54, HLG-600H-54B)	Mean Well	TF-2687	Class B	Tested with appliance (Nemko)
Transformer (T500)	Mean Well	TF-2690	Class B	Tested with appliance (Nemko)
Alt.	Yu Jing	TF-2690	Class B	Tested with appliance (Nemko)
Potting Compound	DOW Corning Corp	SYLGARD 160	150 °C	UL
Alt.	Shin-Etsu Silicone	KET-132A/B	150 °C	UL
Alt.	GUANGZHOU huitian	5299	150 °C	UL
Alt.	Shin-Etsu Silicone	KET-132 A/B H	150 °C	UL
Alt.	U BOND	UB-5203	105 °C	UL
Alt.	LINKTECH	EncapSil 1400	150 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
<p><input type="checkbox"/> 유의사항 (Attention) :</p> <p>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.</p> <p><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></p> <p>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.</p> <p><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></p>				

FP511-04

□ 첨부 2 : 기본모델 · 파생모델의 내용
 Description of the basic and series model

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-600H-12	Rated output (DC12 V, 40 A, 480 W), Without dimming function, Transformer type (TF-2679)
HLG-600H-12B	Rated output (DC12 V, 40 A, 480 W), Transformer type (TF-2679)
HLG-600H-24	Rated output (DC24 V, 25 A, 600 W), Without dimming function, Transformer type (TF-2682)
HLG-600H-24B	Rated output (DC24 V, 25 A, 600 W), Transformer type (TF-2682)
HLG-600H-30	Rated output (DC30 V, 20 A, 600 W), Without dimming function, Transformer type (TF-2683)
HLG-600H-30B	Rated output (DC30 V, 20 A, 600 W), Transformer type (TF-2683)
HLG-600H-36	Rated output (DC36 V, 16.7 A, 601.2 W), Without dimming function, Transformer type (TF-2684)
HLG-600H-36B	Rated output (DC36 V, 16.7 A, 601.2 W), Transformer type (TF-2684)
HLG-600H-42	Rated output (DC42 V, 14.3 A, 600.6 W), Without dimming function, Transformer type (TF-2685)
HLG-600H-42B	Rated output (DC42 V, 14.3 A, 600.6 W), Transformer type (TF-2685)
HLG-600H-48	Rated output (DC48 V, 12.5 A, 600 W), Without dimming function, Transformer type (TF-2686)
HLG-600H-48B	Rated output (DC48 V, 12.5 A, 604.8 W), Transformer type (TF-2686)
HLG-600H-54	Rated output (DC54 V, 11.2 A, 604.8 W), Without dimming function

제품특기사항 및 시험조건
Remarks & Test conditions

1. Test report No. : 16-038041-01 (2016.08.22.)

2. Products Description

- Rated input : AC100-240 V, 50/60 Hz, 652 W, 7.0-2.85 A
- Rated output current : 11.2 A
- Output voltage : DC54 V
- **Rated output wattage : 604.8 W**
- tc: 90 °C, ta: +50 °C
- Power factor : 0.9
- Thermally protection : 110 °C
- With dimming function
- This product is filled with potting
- IP rating : IP67
- Constant voltage type, Independent SELV controlgear

* 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			
1 st Rev.) Addition of components and factory (18-056943-04-2 : 2018.09.19.)			
- Addition of components			
Component	Manufacturer	Model	
Input cord	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 57 (H05RN-F) 3×1.0 mm ²	
		60245 IEC 66 (H07RN-F) 3×1.0 mm ²	
	Dongguan Ta Tun Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F), 3G 1.0 mm ²	
	Zheng Yu Electric Appliance Fitting (Kunshan) Co., Ltd.	60245IEC66(H07RN-F) 3G 1.0 mm ²	
	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 57 (H05RN-F) 3x1.0mm ²	
		60245 IEC 66 (H07RN-F) 3x1.0mm ²	
	Dongguan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 57 (H05RN-F), 3×0.75/1.0/1.5/2.5 mm ²	
		60245 IEC 66 (H07RN-F) (2-5)×(1.0-2.5)mm ²	
	I-Sheng Electronics (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) (3/4/5)×(0.75/1)mm ²	
	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3×1.0 mm ²	
		60245 IEC66 (H07RN-F) 2~5×1.0~2.5 mm ²	
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	H07RN-F 2-4X1.0 mm ² -2.5 mm ²	
	- Addition of factory		
	Name	MEAN WELL (GUANGZHOU) Electronics Co., Ltd. Huadu Branch	
Address	No. 11, Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China		

변경발급 내용
Contents of Certificate Revisions

2nd Rev.) Change name, president and address of factory (21-082212-07-1 : 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

3rd Rev.) components modifications and update of KC standards(23-058789-01-1 : 2023.11.02.)

- Addition of alternative components

Component(Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
PCB Material	Junda	JD-D1	Min. V-1, 130 °C	UL
	GUANGDONG CHAOHUA	C-104, C-109	Min. V-1, 130 °C	UL
	JIANGSU DIFEIDA	DFD-2	Min. V-0, 130 °C	UL
	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, 130 °C	UL
	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, 130 °C	UL
	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, 130 °C	UL
	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T, ML-401	Min. V-0, 130 °C	UL
Input cord	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F 2C-3CX0.75 mm ² -1 mm ²	300/500 V , 3x0.75 mm ² -1 mm ²	KC
Varistor (ZNR1, ZNR2, ZNR3)	Huiwan	V-471K-10DEH, V-471K-14DEH	AC300 V, DC385 V, 125 °C	UL
	Huiwan	V-511K-10DEH, V-511K-14DEH	AC320 V, DC415 V, 125 °C	UL
	Huiwan	V-561K-10DEH, V-561K-14DEH	AC350 V, DC450 V, 125 °C	UL
X-Capacitor(C1, C2) (X1 or X2 type)	Hua Jung	MKP	Min. AC 250 V, Max. 1.5 μF	VDE
	Carli	MPX	Min. AC 250 V, Max. 1.5 μF	VDE
	Joey	MPX	Min. AC 250 V, Max. 1.5 μF	VDE
	Nissei	MP1	Min. AC 250 V, Max. 1.5 μF	VDE

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Y-Capacitor (C3, C4, C21, C22, C23, C24, C30) (Y1 type or Y2 type)	Huiwan	AR	Min. AC 250 V, Max. 1 000 pF	VDE
	Huiwan	AB	Min. AC 250 V, Max. 1 000 pF	VDE
	Wanming	HJ	Min. AC 250 V, Max. 1 000 pF	VDE
	Wanming	HM	Min. AC 250 V, Max. 1 000 pF	VDE
Bridging Capacitor (C31) (Y1 type)	Huiwan	AR	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
	Wanming	HJ	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Photo Coupler (U3, U4, U5, U502, U503)	CT-Micro	CT817	Dti=0.4 mm Int. dcr=5.3 mm Ext. dcr=8.0 mm, thermal cycling test, 100 °C	VDE
Potting Compound	LINKTECH	EncapSil 1400	150 °C	UL

- Delete of components

Component(Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
PCB Material	Hsiang kuo	76V0A	Min. V-1, 130 °C	UL
	Brite Plus Electronics	DGV0-3A	Min. V-1, 130 °C	UL
Input cord	Zheng Yu Electric Appliance Fittings (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) 3G 0.75 mm ² , 60245 IEC 57 (H05RN-F) 3G 1.0 mm ²	300/500 V 3 x 0.75 mm ² , 3 x 1.0 mm ²	KC
	Zheng Yu Electric Appliance Fitting (Kunshan) Co., Ltd.	60245IEC66 (H07RN-F) 3G 1.0 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Varistor (ZNR1)	Thinking	TVR10511-M TVR14511-M	AC320 V, DC410 V, 125 °C	VDE, UL
	Thinking	TVR10471-M TVR14471-M	AC300 V, DC385 V, 125 °C	VDE, UL
	Thinking	TVR10561-M TVR14561-M	AC350 V, DC450 V, 125 °C	VDE, UL

변경발급 내용

 Contents of Certificate Revisions

X-Capacitor(C1, C2) (X1 or X2 type)	Kemet (Arcotronics)	R.49	250 V, 1.5 uF	VDE
	Iskra	KNB1530	250 V, 1.5 uF	VDE
	Iskra	KNB1560	250 V, 1.5 uF	VDE
	Pilkor	PCX2 337	250 V, 1.5 uF	VDE
	Pilkor	PCX2 335M	250 V, 1.5 uF	VDE
	Cheng Tung	CTX	250 V, 1.5 uF	VDE
	Vishay	339	250 V, 1.5 uF	VDE
	Shiny Space	SX1	250 V, 1.5 uF	VDE
Y-Capacitor(C3, C4, C21, C22, C23, C24, C30, C169, C179, C269) (Y1 type or Y2 type)	Welson	WD	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	WKP	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	440L	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	338 6	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE

변경발급 내용
Contents of Certificate Revisions

Y-Capacitor(C169, C179, C269) (Y1 type or Y2 type)	Murata	KX, KH, KY	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	Walsin	AC, AH	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	TDK-EPC	CD, CS	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	VY1	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
Bridging Capacitor (C31) (Y1 or Y2 type)	Welson	WD	250 V, 470 pF, 125 °C	VDE
	VISHAY	WKP	250 V, 470 pF, 125 °C	VDE
	VISHAY	440L	250 V, 470 pF, 125 °C	VDE
	VISHAY	338 6	250 V, 470 pF, 125 °C	VDE

- Combine Varistor ZNR1 to Varistor("ZNR1", ZNR2, ZNR3)
- X-Capacitor (C1, C2) rating update
: from 250 V, 1.5 uF to Min AC 250 V, Max. 1.5 uF
- Delete of Y-Capacitor(C169, C179, C269)
- Y-Capacitor (C3, C4, C21, C22, C23, C24, C30) rating update
: from 250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF
to Min. AC 250 V, Max.1 000 pF
- Bridging Capacitor (C31) rating update
: from 250 V, 470 pF, 125 °C, Y1 or Y2 type to Min. AC 250 V, Max. 2 200 pF, 125 °C, Y1 type
- Update of KC standards to KC61347-1(2022-02), KC61347-2-13(2022-02)
: based on CB Certificate Ref. No.: NL-89363 (DEKRA Certification B.V.)
and CB report No. 494968.50(DEKRA Testing and Certification (Shanghai) Ltd.
Guangzhou Branch)

접 수 번 호 : 23-058789-02-1
(Receipt No.)



안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 : SZ11007-16004C
(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-600H-54A
(Basic Model)

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

정 격/안 전 기 준 상 의 모 델 구 분 : AC 100-240 V, 50/60 Hz, 652 W
(Rating) (Output: DC 54 V, 11.2 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.
제 조 공 장 의 주 소 : No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248,
Taiwan (R.O.C.)
다 수 공 장 의 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 11 월 02 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
PCB Material	Junda	JD-D	Min. V-1, 130 °C	UL
Alt.	Taihe	THS	Min. V-1, 130 °C	UL
Alt.	Taihe	THD	Min. V-1, 130 °C	UL
Alt.	GUANGDONG CHAOHUA	C-103	Min. V-1, 130 °C	UL
Alt.	Junda	JD-E	Min. V-1, 130 °C	UL
Alt.	Hong Shien	03V-0	Min. V-1, 130 °C	UL
Alt.	Hong Shien	-D	Min. V-1, 130 °C	UL
Alt.	Hong Shien	-M	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	4V0	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	DV2	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	MV1	Min. V-1, 130 °C	UL
Alt.	Jiin-Yu	JY-001	Min. V-1, 130 °C	UL
Alt.	Jiin-Yu	JY-003	Min. V-1, 130 °C	UL
Alt.	Shanghai Wanzheng	SWZ-1	Min. V-1, 130 °C	UL
Alt.	Junda	JD-D1	Min. V-1, 130 °C	UL
Alt.	GUANGDONG CHAOHUA	C-104, C-109	Min. V-1, 130 °C	UL
Alt.	JIANGSU DIFEIDA	DFD-2	Min. V-0, 130 °C	UL
Alt.	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, 130 °C	UL
Alt.	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, 130 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, 130 °C	UL
Alt.	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T, ML- 401	Min. V-0, 130 °C	UL
Input cord	Dongguan Lucky U nited Electric Wire & Cable Co., Ltd.	245 IEC 57 H05RN-F 2C-3Cx0.75 mm ² - 1 mm ²	300/500 V, 3 x 0.75 mm ² - 1 mm ²	KC
Alt.	Shanghai Yusheng Enterprise Develop ment Co., Ltd	K60245 IEC 57 3Cx1.5 mm ² , K60245 IEC 57 2C-5Cx0.75 mm ² - 2.5 mm ²	300/500 V 3 x 1.5 mm ² , 3 x 0.75 mm ² -2.5 mm ²	KC
Alt.	Dongguan Ever Uni ted Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 mm ² -1.0 mm ²	300/500 V, 3 x 0.75 mm ² -1.0 mm ²	KC
Alt.	Dongguan Ever Uni ted Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 mm ² -4 mm ²	450/750 V 3 x 1.0 mm ² -4.0 mm ²	KC
Alt.	I-Sheng Electronics (Kunshan) Co., Lt d	60245 IEC 66 (H07RN-F) (3/4/5)x (1/1.5/ 2.5)mm ²	450/750 V, 3 x (1/1.5/2.5)mm ²	KC
Alt.	Shanghai YuSheng Enterprise Develop ment Co.,Ltd.	60245 IEC66 (H07RN-F) 3Cx 1.0,1.5,2.5,4 mm ²	450/750 V, 3 x (1/1.5/2.5/4)mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 57 (H05RN- F) 3x1.0 mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 66 (H07RN- F) 3x1.0 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Ta Tun Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN- F), 3G 1.0 mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 57 (H05RN-F) 3x1.0mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 66 (H07RN-F) 3x1.0mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 57 (H 05RN-F), 3x 0.75/1.0/1.5/2.5 mm ²	300/500 V, 3 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.	Dongguan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 66 (H07RN-F) (2-5)×(1.0-2.5)mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	I-Sheng Electronics (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) (3/4/5)×(0.75/1)mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3×1.0 mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC66 (H07RN-F) 2~5×1.0~2.5 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	H07RN-F 2-4X1.0 mm ² -2.5 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F 2C-3CX0.75mm²-1mm²	300/500 V , 3x0.75 mm²-1 mm²	KC
Fuse (FS1)	Conquer	MST	300 V, T8A	VDE
Varistor (ZNR1, ZNR2, ZNR3)	Centra Science	CNR14D511K	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Joyin	10S511K	AC320 V, DC418 V, 85°C	VDE, UL
Alt.	Joyin	14S511K	AC320 V, DC418 V, 85 °C	VDE, UL
Alt.	Joyin	14N511K	AC320 V, DC418 V, 85 °C	VDE, UL
Alt.	Thinking	TVR10511	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR10511-V	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR10511-D	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511-V	AC320 V, DC420 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511-D	AC320 V, DC410 V, 85 °C	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.	Thinking	TVR14511-M TVR10511-M	AC320 V, DC410 V, 125 °C	VDE, UL
Alt.	Thinking	TVR10471-M TVR14471-M	AC300 V, DC385 V, 125 °C	VDE, UL
Alt.	Thinking	TVR10561-M TVR14561-M	AC350 V, DC450 V, 125 °C	VDE, UL
Alt.	Huiwan	V-471K-10DEH, V-471K-14DEH	AC 300 V, DC 385 V, 125 °C	UL
Alt.	Huiwan	V-511K-10DEH, V-511K-14DEH	AC 320 V, DC 415 V, 125 °C	UL
Alt.	Huiwan	V-561K-10DEH, V-561K-14DEH	AC 350 V, DC 450 V, 125 °C	UL
X-Capacitor (C 1, C2) (X1 or X2 type)	Kemet (Arcotronics)	R.46	Min. AC 250 V, Max. 1.5 μ F	VDE
Alt.	Epcos	B3292#	Min. AC 250 V, Max. 1.5 μ F	VDE
Alt.	Liow Gu	GS-L	Min. AC 250 V, Max. 1.5 μ F	VDE
Alt.	Ultra Tech	HQX	Min. AC 250 V, Max. 1.5 μ F	VDE
Alt.	Hua Jung	MKP	Min. AC 250 V, Max. 1.5 μ F	VDE
Alt.	Carli	MPX	Min. AC 250 V, Max. 1.5 μ F	VDE
Alt.	Joey	MPX	Min. AC 250 V, Max. 1.5 μ F	VDE
Alt.	Nissei	MP1	Min. AC 250 V, Max. 1.5 μ F	VDE
Y-Capacitor (C 3, C4, C21, C22, C23, C24, C30) (Y1 type or Y2 type)	Murata	KX, KH, KY	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Walsin	AC, AH	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	TDK-EPC	CD, CS	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	VISHAY	VY1	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Huiwan	AR	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Huiwan	AB	Min. AC 250 V, Max. 1 000 pF	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Wanming	HJ	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Wanming	HM	Min. AC 250 V, Max. 1 000 pF	VDE
Bridging Capacitor (C31) (Y1 type)	Murata	KX, KH, KY	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	Walsin	AC, AH	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	TDK-EPC	CD, CS	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	VISHAY	VY1	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	Huiwan	AR	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	Wanming	HJ	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Choke (LF1)	Mean Well	TR-1144	Min. 105 °C	Tested with appliance (Nemko)
Choke (LF2, LF3)	Mean Well	TR-1145	Min. 105 °C	Tested with appliance (Nemko)
Choke (L2, L3)	Mean Well	TF-2689	Min. 105 °C	Tested with appliance (Nemko)
Photo Coupler (U3,U4, U5, U50 2, U503)	Lite-On	LTV-817, LTV-817M	Dti= 0.8 mm Int. dcr= 5. 2 mm Ext. dcr= 7.0 mm, thermal cycling test, 115 °C	VDE, UL
Alt.	Sharp	PC123	Dti= 0.7 mm Int. dcr= 5 mm Ext. dcr= 8.0 mm, th ermal cycling test, 110 ° C	VDE, UL
Alt.	Cosmo	K1010	Dti= 0.5 mm Int. dcr= 5.3 mm Ext. dcr= 8 m m, thermal cycling test, 115 °C	VDE, UL
Alt.	Renesas	PS2561DL1-1	Dti= 0.4 mm Ext. dcr= 8 mm, thermal cycling test , 110 °C	VDE, UL
Alt.	CT-Micro	CT817	Dti=0.4 mm Int. dcr=5.3 mm Ext. dcr=8.0 mm, thermal cycling test, 100 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1, T2)(For HLG-600H-12A)	Mean Well	TF-2679	Class B	Tested with appliance (Nemko)
Transformer (T1, T2)(For HLG-600H-24A)	Mean Well	TF-2682	Class B	Tested with appliance (Nemko)
Transformer (T1, T2)(For HLG-600H-30A)	Mean Well	TF-2683	Class B	Tested with appliance (Nemko)
Transformer (T1, T2)(For HLG-600H-42A)	Mean Well	TF-2685	Class B	Tested with appliance (Nemko)
Transformer (T1, T2)(For HLG-600H-48A)	Mean Well	TF-2686	Class B	Tested with appliance (Nemko)
Transformer (T1, T2)(For HLG-600H-54A)	Mean Well	TF-2687	Class B	Tested with appliance (Nemko)
Transformer (T500)	Mean Well	TF-2690	Class B	Tested with appliance (Nemko)
Alt.	Yu Jing	TF-2690	Class B	Tested with appliance (Nemko)
Potting Compound	DOW Corning Corp	SYLGARD 160	150 °C	UL
Alt.	Shin-Etsu Silicone	KET-132A/B	150 °C	UL
Alt.	GUANGZHOU huitian	5299	150 °C	UL
Alt.	Shin-Etsu Silicone	KET-132 A/B H	150 °C	UL
Alt.	U BOND	UB-5203	105 °C	UL
Alt.	LINKTECH	EncapSil 1400	150 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
<p><input type="checkbox"/> 유의사항 (Attention) :</p> <p>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.</p> <p><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></p> <p>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.</p> <p><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></p>				

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□ 첨부 2 : 기본모델 · 파생모델의 내용
Description of the basic and series model

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-600H-12A	Rated output (DC12 V, 40 A, 480 W), Without dimming function, Transformer type (TF-2679)
HLG-600H-24A	Rated output (DC24 V, 25 A, 600 W), Without dimming function, Transformer type (TF-2682)
HLG-600H-30A	Rated output (DC30 V, 20 A, 600 W), Without dimming function, Transformer type (TF-2683)
HLG-600H-42A	Rated output (DC42 V, 14.3 A, 600.6 W), Without dimming function, Transformer type (TF-2685)
HLG-600H-48A	Rated output (DC48 V, 12.5 A, 600 W), Without dimming function, Transformer type (TF-2686)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report No. : 16-038045-01 (2016.08.22.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - Rated input : AC100-240 V, 50/60 Hz, 652 W, 7.0-2.85 A - Rated output current : 11.2 A - Output voltage : DC54 V - Rated output wattage : 604.8 W - tc: 90 °C, ta: +50 °C - Power factor : 0.9 - Thermally protection : 110 °C - With dimming function - IP rating : IP65 - This product is filled with potting - Constant voltage type, Independent SELV controlgear <p>* factory information</p> <ul style="list-style-type: none"> - MEAN WELL (Guangzhou) Electronics Co.,Ltd. <li style="padding-left: 20px;">No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China 	
<p>□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험 담당자 / 연락처 : 디지털산업본부 전기전자기술센터 남 상엽 / (02)860-1427</p> <p>□ <i>If you have any question on product testing, please contact the person below :</i> Job holder : S.M.A.R.T. Industry Division, Electrical and Electronic Technology Center, Sang-Yeop Nam/ +82 2 8601-1427</p>	

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions		
1 st Rev.) Addition of components and factory (18-056943-01-2 : 2018.09.19.)		
- Addition of components		
Input cord	Component	Model
	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 57 (H05RN-F) 3×1.0 mm ²
		60245 IEC 66 (H07RN-F) 3×1.0 mm ²
	Dongguan Ta Tun Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F), 3G 1.0 mm ²
	Zheng Yu Electric Appliance Fitting (Kunshan) Co., Ltd.	60245IEC66(H07RN-F) 3G 1.0 mm ²
	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 57 (H05RN-F) 3x1.0mm2
		60245 IEC 66 (H07RN-F) 3x1.0mm2
	Dongguan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 57 (H05RN-F), 3×0.75/1.0/1.5/2.5 mm ²
		60245 IEC 66 (H07RN-F) (2-5)×(1.0-2.5)mm ²
	I-Sheng Electronics (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) (3/4/5)×(0.75/1)mm ²
	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3×1.0 mm ²
		60245 IEC66 (H07RN-F) 2~5×1.0~2.5 mm ²
Dongguan Lucky United Electric Wire & Cable Co.,Ltd	H07RN-F 2-4X1.0 mm ² -2.5 mm ²	
- Addition of factory		
Name	MEAN WELL (GUANGZHOU) Electronics Co., Ltd. Huadu Branch	
Address	No. 11, Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China	

변경발급 내용
Contents of Certificate Revisions

2nd Rev.) Change name, president and address of factory (21-082212-05-1 : 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

3rd Rev.) Components modifications and update of KC standards(23-058789-02-1 : 2023.11.02.)

- Addition of alternative components

Component(Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
PCB Material	Junda	JD-D1	Min. V-1, 130 °C	UL
	GUANGDONG CHAOHUA	C-104, C-109	Min. V-1, 130 °C	UL
	JIANGSU DIFEIDA	DFD-2	Min. V-0, 130 °C	UL
	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, 130 °C	UL
	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, 130 °C	UL
	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, 130 °C	UL
	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T, ML-401	Min. V-0, 130 °C	UL
Input cord	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F 2C-3CX0.75 mm ² -1 mm ²	300/500 V , 3x0.75 mm ² -1 mm ²	KC
Varistor (ZNR1, ZNR2, ZNR3)	Huiwan	V-471K-10DEH, V-471K-14DEH	AC300 V, DC385 V, 125 °C	UL
	Huiwan	V-511K-10DEH, V-511K-14DEH	AC320 V, DC415 V, 125 °C	UL
	Huiwan	V-561K-10DEH, V-561K-14DEH	AC350 V, DC450 V, 125 °C	UL
X-Capacitor(C1, C2) (X1 or X2 type)	Hua Jung	MKP	Min. AC 250 V, Max. 1.5 μF	VDE
	Carli	MPX	Min. AC 250 V, Max. 1.5 μF	VDE
	Joey	MPX	Min. AC 250 V, Max. 1.5 μF	VDE
	Nissei	MP1	Min. AC 250 V, Max. 1.5 μF	VDE

변경발급 내용 Contents of Certificate Revisions				
Y-Capacitor (C3,C4,C21, C22, C23, C24, C30) (Y1 type or Y2 type)	Huiwan	AR	Min. AC 250 V, Max. 1 000 pF	VDE
	Huiwan	AB	Min. AC 250 V, Max. 1 000 pF	VDE
	Wanming	HJ	Min. AC 250 V, Max. 1 000 pF	VDE
	Wanming	HM	Min. AC 250 V, Max. 1 000 pF	VDE
Bridging Capacitor (C31) (Y1 type)	Huiwan	AR	Min. AC 250 V, Max. 2 200 pF,125 °C	VDE
	Wanming	HJ	Min. AC 250 V, Max. 2 200 pF,125 °C	VDE
Photo Coupler (U3, U4, U5, U502, U503)	CT-Micro	CT817	Dti=0.4 mm Int. dcr=5.3 mm Ext. dcr=8.0 mm, thermal cycling test, 100 °C	VDE
Potting Compound	LINKTECH	EncapSil 1400	150 °C	UL
- Delete of components				
Component(Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
PCB Material	Hsiang kuo	76V0A	Min. V-1, 130 °C	UL
	Brite Plus Electronics	DGV0-3A	Min. V-1, 130 °C	UL
Input cord	Zheng Yu Electric Appli ance Fittings (Kunsha n) Co., Ltd.	60245 IEC 57 (H0 5RN-F) 3G 0.75 mm ² , 60245 IEC 57 (H0 5RN-F) 3G 1.0 mm ²	300/500 V 3 x 0.75 mm ² , 3 x 1.0 mm ²	KC
	Zheng Yu Electric Appliance Fitting (Kunshan) Co., Ltd.	60245IEC66 (H07RN- F) 3G 1.0 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Varistor (ZNR1)	Thinking	TVR10511-M TVR14511-M	AC320 V, DC410 V, 125 °C	VDE, UL
	Thinking	TVR10471-M TVR14471-M	AC300 V, DC385 V, 125 °C	VDE, UL
	Thinking	TVR10561-M TVR14561-M	AC350 V, DC450 V, 125 °C	VDE, UL
X-Capacitor(C1, C2) (X1 or X2 type)	Kemet (Arcotronics)	R.49	250 V, 1.5 uF	VDE
	Iskra	KNB1530	250 V, 1.5 uF	VDE
	Iskra	KNB1560	250 V, 1.5 uF	VDE
	Pilkor	PCX2 337	250 V, 1.5 uF	VDE
	Pilkor	PCX2 335M	250 V, 1.5 uF	VDE
	Cheng Tung	CTX	250 V, 1.5 uF	VDE
	Vishay	339	250 V, 1.5 uF	VDE
Shiny Space	SX1	250 V, 1.5 uF	VDE	

변경발급 내용
Contents of Certificate Revisions

Y-Capacitor(C3, C4, C21, C22, C23, C24, C30, C169, C179, C269) (Y1 type or Y2 type)	Welson	WD	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	WKP	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	440L	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	338 6	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
Y-Capacitor(C169, C179, C269) (Y1 type or Y2 type)	Murata	KX, KH, KY	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	Walsin	AC, AH	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	TDK-EPC	CD, CS	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	VY1	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
Bridging Capacitor (C31) (Y1 or Y2 type)	Welson	WD	250 V, 470 pF, 125 °C	VDE
	VISHAY	WKP 12/13	250 V, 470 pF, 125 °C	VDE
	VISHAY	440L	250 V, 470 pF, 125 °C	VDE
	VISHAY	338 6	250 V, 470 pF, 125 °C	VDE

변경발급 내용
Contents of Certificate Revisions

- Combine Varistor ZNR1 to Varistor("ZNR1", ZNR2, ZNR3)
- X-Capacitor (C1, C2) rating update
 - : from 250 V, 1.5 uF to Min AC 250 V, Max. 1.5 uF
- Delete of Y-Capacitor(C169, C179, C269)
- Y-Capacitor (C3, C4, C21, C22, C23, C24, C30) rating update
 - : from 250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF
 - to Min. AC 250 V, Max.1 000 pF
- Bridging Capacitor (C31) rating update
 - : from 250 V, 470 pF, 125 °C, Y1 or Y2 type to Min. AC 250 V, Max. 2 200 pF, 125 °C, Y1 type
- Update of KC standards to KC61347-1(2022-02), KC61347-2-13(2022-02)
 - : based on CB Certificate Ref. No.: NL-89363 (DEKRA Certification B.V.) and CB report No. 4904968.50(DEKRA Testing and Certification (Shanghai) Ltd. Guangzhou Branch)

FP511-06

접수번호 : 23-058789-03-1
(Receipt No.)



안전인증서

Safety Certificate

안전인증번호 : SZ11007-16003C
(Certificate No.)

제조업자/수입업자명 : MEAN WELL Enterprises Co., Ltd.
(Manufacturer/importer)

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

제품명 : 조명기구용컨버터(LED용)
(Product) (Electronic controlgear)

기본모델명 : HLG-600H-20B
(Basic Model)

파생모델명 : HLG-600H-15, HLG-600H-15B, HLG-600H-20
(Series Model)

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 652 W(Output: DC 20 V, 28 A)
(Rating)

시험기준 : KC61347-1(2022-02), KC61347-2-13(2022-02)
(Standard)

본 인증서는 제조국명 : 대만
제조업자명 : 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 11 월 03 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
PCB Material	Junda	JD-D	Min. V-1, 130 °C	UL
Alt.	Taihe	THS	Min. V-1, 130 °C	UL
Alt.	Taihe	THD	Min. V-1, 130 °C	UL
Alt.	GUANGDONG CHAOHUA	C-103	Min. V-1, 130 °C	UL
Alt.	Junda	JD-E	Min. V-1, 130 °C	UL
Alt.	Hong Shien	03V-0	Min. V-1, 130 °C	UL
Alt.	Hong Shien	-D	Min. V-1, 130 °C	UL
Alt.	Hong Shien	-M	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	4V0	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	DV2	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	MV1	Min. V-1, 130 °C	UL
Alt.	Jiin-Yu	JY-001	Min. V-1, 130 °C	UL
Alt.	Jiin-Yu	JY-003	Min. V-1, 130 °C	UL
Alt.	Shanghai Wanzheng	SWZ-1	Min. V-1, 130 °C	UL
Alt.	Junda	JD-D1	Min. V-1, 130 °C	UL
Alt.	GUANGDONG CHAOHUA	C-104, C-109	Min. V-1, 130 °C	UL
Alt.	JIANGSU DIFEIDA	DFD-2	Min. V-0, 130 °C	UL
Alt.	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, 130 °C	UL
Alt.	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, 130 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, 130 °C	UL
Alt.	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T, ML- 401	Min. V-0, 130 °C	UL
Input cord	Dongguan Lucky U nited Electric Wire & Cable Co., Ltd.	245 IEC 57 H05 RN-F 2C-3Cx0.75 mm ² - 1 mm ²	300/500 V, 3 x 0.75 mm ² - 1 mm ²	KC
Alt.	Shanghai Yusheng Enterprise Develop ment Co., Ltd	K60245 IEC 57 3Cx1.5 mm ² , K60245 IEC 57 2C-5Cx0.75 mm ² - 2.5 mm ²	300/500 V 3 x 1.5 mm ² , 3 x 0.75 mm ² -2.5 mm ²	KC
Alt.	Dongguan Ever Uni ted Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 mm ² -1.0 mm ²	300/500 V, 3 x 0.75 mm ² -1.0 mm ²	KC
Alt.	Dongguan Ever Uni ted Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 mm ² -4 mm ²	450/750 V 3 x 1.0 mm ² -4.0 mm ²	KC
Alt.	I-Sheng Electronics (Kunshan) Co., Ltd	60245 IEC 66 (H07RN-F) (3/4/5)x (1/1.5/ 2.5)mm ²	450/750 V, 3 x (1/1.5/2.5)mm ²	KC
Alt.	Shanghai YuSheng Enterprise Develop ment Co.,Ltd.	60245 IEC66 (H 07RN-F) 3Cx1.0, 1.5,2.5,4 mm ²	450/750 V, 3 x (1/1.5/2.5/4)mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 57 (H05RN-F) 3x1.0 mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 66 (H07RN-F) 3x1.0 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Ta Tun Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F), 3G 1.0 mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 57 (H05RN-F) 3x1.0mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 66 (H07RN-F) 3x1.0mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 57 (H05RN-F), 3x 0.75/1.0/1.5/2.5 mm ²	300/500 V, 3 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.	Dongguan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 66 (H07RN-F) (2-5)×(1.0-2.5) mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	I-Sheng Electronics (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) (3/4/5)×(0.75/1) mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3×1.0 mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC66 (H07RN-F) 2~5×1.0~2.5 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	H07RN-F 2-4X1.0 mm ² -2.5 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	DONGGUAN TAWAN G ELECTRONICS CO LTD	60245 IEC 57 H0 5RN-F 2C-3CX0.75 mm²-1 mm²	300/500 V , 3x0.75 mm²-1 mm²	KC
Fuse (FS1)	Conquer	MST	300 V, T8A	VDE
Varistor (ZNR1, ZNR2, ZNR3)	Centra Science	CNR14D511K	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Joyin	10S511K	AC320 V, DC418 V, 85°C	VDE, UL
Alt.	Joyin	14S511K	AC320 V, DC418 V, 85 °C	VDE, UL
Alt.	Joyin	14N511K	AC320 V, DC418 V, 85 °C	VDE, UL
Alt.	Thinking	TVR10511	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR10511-V	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR10511-D	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511-V	AC320 V, DC420 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511-D	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511-M TVR10511-M	AC320 V, DC410 V, 125 °C	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.	Thinking	TVR10471-M TVR14471-M	AC300 V, DC385 V, 125 °C	VDE, UL
Alt.	Thinking	TVR10561-M TVR14561-M	AC350 V, DC450 V, 125 °C	VDE, UL
Alt.	Huiwan	V-471K-10DEH, V-471K-14DEH	AC 300 V, DC 385 V, 125 °C	UL
Alt.	Huiwan	V-511K-10DEH, V-511K-14DEH	AC 320 V, DC 415 V, 125 °C	UL
Alt.	Huiwan	V-561K-10DEH, V-561K-14DEH	AC 350 V, DC 450 V, 125 °C	UL
X-Capacitor (C1, C2) (X1 or X2 type)	Kemet (Arcotronics)	R.46	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Epcos	B3292#	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Liow Gu	GS-L	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Ultra Tech	HQX	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Hua Jung	MKP	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Carli	MPX	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Joey	MPX	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Nissei	MP1	Min. AC 250 V, Max. 1.5 uF	VDE
Y-Capacitor (C3, C4, C21, C22, C2 3, C24, C30) (Y1 type or Y2 type)	Murata	KX, KH, KY	Min. AC 250 V, Max.1 000 pF	VDE
Alt.	Walsin	AC, AH	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	TDK-EPC	CD, CS	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	VISHAY	VY1	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Huiwan	AR	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Huiwan	AB	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Wanming	HJ	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Wanming	HM	Min. AC 250 V, Max. 1 000 pF	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Bridging Capacitor (C31) (Y1 type)	Murata	KX, KH, KY	Min. AC 250 V, Max. 2200 pF, 125 °C	VDE
Alt.	Walsin	AC, AH	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	TDK-EPC	CD, CS	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	VISHAY	VY1	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	Huiwan	AR	Min. AC 250 V, Max. 2 200 pF,125 °C	VDE
Alt.	Wanming	HJ	Min. AC 250 V, Max. 2 200 pF,125 °C	VDE
Choke (LF1)	Mean Well	TR-1144	Min. 105 °C	Tested with appliance (Nemko)
Choke (LF2, LF3)	Mean Well	TR-1145	Min. 105 °C	Tested with appliance (Nemko)
Choke (L2, L3)	Mean Well	TF-2689	Min. 105 °C	Tested with appliance (Nemko)
Photo Coupler (U3, U4, U5, U50 2, U503)	Lite-On	LTV-817, LTV-817M	Dti= 0.8 mm Int. dcr= 5.2 mm Ext. dcr= 7.0 mm, thermal cyclin g test, 115 °C	VDE, S, UL
Alt.	Sharp	PC123	Dti= 0.7 mm Int. dcr= 5 mm Ext. dcr= 8.0 mm, thermal cycling test, 110 °C	VDE, S, UL
Alt.	Cosmo	K1010	Dti= 0.5 mm Int. dcr= 5.3 mm Ext. dcr= 8 m m, thermal cycling tes t,115 °C	VDE, S, UL
Alt.	Renesas	PS2561DL1-1	Dti= 0.4 mm Ext. dcr= 8 mm, thermal cycling test, 110 °C	VDE, FI, UL
Alt.	CT-Micro	CT817	Dti=0.4 mm Int. dcr=5.3 mm Ext. dcr=8.0 mm, thermal cycling test, 100 °C	VDE
Transformer (T1, T2)(For HLG- 600H-15, HLG-600H-15B)	Mean Well	TF-2680	Class B	Tested with appliance (Nemko)

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1, T2)(For HLG-600H-20, HLG-600H-20B)	Mean Well	TF-2681	Class B	Tested with appliance (Nemko)
Transformer (T500)	Mean Well	TF-2690	Class B	Tested with appliance (Nemko)
Alt.	Yu Jing	TF-2690	Class B	Tested with appliance (Nemko)
Potting Compound	DOW Corning Corp	SYLGARD 160	150 °C	UL
Alt.	Shin-Etsu Silicone	KET-132A/B	150 °C	UL
Alt.	GUANGZHOU huitian	5299	150 °C	UL
Alt.	Shin-Etsu Silicone	KET-132 A/B H	150 °C	UL
Alt.	U BOND	UB-5203	105 °C	UL
Alt.	LINKTECH	EncapSil 1400	150 °C	UL

유의사항 (Attention) :

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

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

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

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

□ **첨부 2 : 기본모델 · 파생모델의 내용**
Description of the basic and series model

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-600H-15	Rated output (DC15 V, 36 A, 540 W), Without dimming function
HLG-600H-15B	Rated output (DC15 V, 36 A, 540 W)
HLG-600H-20	Rated output (DC20 V, 28 A, 560 W), Without dimming function
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report No. : 16-038044-01 (2016.08.22.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - Rated input : AC100-240 V, 50/60 Hz, 652 W, 7.0-2.85 A - Rated output current : 28 A - Output voltage : DC20 V - Rated output wattage : 560 W - tc: 90 °C, ta: +50 °C - Power factor : 0.9 - Thermally protection : 110 °C - With dimming function - IP rating : IP67 - This product is filled with potting - Constant voltage type, Independent SELV controlgear <p>* factory information</p> <ul style="list-style-type: none"> - MEAN WELL (Guangzhou) Electronics Co.,Ltd. <li style="padding-left: 20px;">No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China 	
<p>□ 본 제품의 검토내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험 담당자 / 연락처 : 디지털산업본부 전기전자기술센터 석 대일 / (02)860-1494</p> <p>□ <i>If you have any question on product review, please contact the person below :</i> <i>Job holder : S.M.A.R.T. Industry Division, Electrical and Electronic Technology Center, Daeil Seok/+82 2 860-1494</i></p>	

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions		
1 st Rev.) Addition of components and factory (18-056943-02-2 : 2018.09.19.)		
- Addition of components		
Input cord	Component	Model
	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 57 (H05RN-F) 3×1.0 mm ²
		60245 IEC 66 (H07RN-F) 3×1.0 mm ²
	Dongguan Ta Tun Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F), 3G 1.0 mm ²
	Zheng Yu Electric Appliance Fitting (Kunshan) Co., Ltd.	60245IEC66(H07RN-F) 3G 1.0 mm ²
	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 57 (H05RN-F) 3x1.0mm2
		60245 IEC 66 (H07RN-F) 3x1.0mm2
	Dongguan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 57 (H05RN-F), 3×0.75/1.0/1.5/2.5 mm ²
		60245 IEC 66 (H07RN-F) (2-5)×(1.0-2.5)mm ²
	I-Sheng Electronics (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) (3/4/5)×(0.75/1)mm ²
	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3×1.0 mm ²
		60245 IEC66 (H07RN-F) 2~5×1.0~2.5 mm ²
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	H07RN-F 2-4X1.0 mm ² -2.5 mm ²
- Addition of factory		
Name	MEAN WELL (GUANGZHOU) Electronics Co., Ltd. Huadu Branch	
Address	No. 11, Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China	

변경발급 내용
Contents of Certificate Revisions

2nd Rev.) Change name, president and address of factory (21-082212-06-1 : 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

3rd Rev.) components modifications and update of KC standards
 (23-058789-03-1 : 2023.11.03.)

- Addition of alternative components

Component(Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
PCB Material	Junda	JD-D1	Min. V-1, 130 °C	UL
	GUANGDONG CHAOHUA	C-104, C-109	Min. V-1, 130 °C	UL
	JIANGSU DIFEIDA	DFD-2	Min. V-0, 130 °C	UL
	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, 130 °C	UL
	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, 130 °C	UL
	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, 130 °C	UL
	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T, ML-401	Min. V-0, 130 °C	UL
Input cord	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F 2C-3CX0.75 mm ² -1 mm ²	300/500 V, 3x0.75 mm ² -1 mm ²	KC
Varistor (ZNR1, ZNR2, ZNR3)	Huiwan	V-471K-10DEH, V-471K-14DEH	AC300 V, DC385 V, 125 °C	UL
	Huiwan	V-511K-10DEH, V-511K-14DEH	AC320 V, DC415 V, 125 °C	UL
	Huiwan	V-561K-10DEH, V-561K-14DEH	AC350 V, DC450 V, 125 °C	UL
X-Capacitor(C1, C2) (X1 or X2 type)	Hua Jung	MKP	Min. AC 250 V, Max. 1.5 μF	VDE
	Carli	MPX	Min. AC 250 V, Max. 1.5 μF	VDE
	Joey	MPX	Min. AC 250 V, Max. 1.5 μF	VDE
	Nissei	MP1	Min. AC 250 V, Max. 1.5 μF	VDE
Y-Capacitor (C3, C4, C21, C22, C23, C24, C30) (Y1 type or Y2 type)	Huiwan	AR	Min. AC 250 V, Max. 1 000 pF	VDE
	Huiwan	AB	Min. AC 250 V, Max. 1 000 pF	VDE
	Wanming	HJ	Min. AC 250 V, Max. 1 000 pF	VDE

변경발급 내용
Contents of Certificate Revisions

	Wanming	HM	Min. AC 250 V, Max. 1 000 pF	VDE
Bridging Capacitor (C31) (Y1 type)	Huiwan	AR	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
	Wanming	HJ	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Photo Coupler (U3, U4, U5, U502, U503)	CT-Micro	CT817	Dti=0.4 mm Int. dcr=5.3 mm Ext. dcr=8.0 mm, thermal cycling test, 100 °C	VDE
Potting Compound	LINKTECH	EncapSil 1400	150 °C	UL

- Delete of components

Component(Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
PCB Material	Hsiang kuo	76V0A	Min. V-1, 130 °C	UL
	Brite Plus Electronics	DGV0-3A	Min. V-1, 130 °C	UL
Input cord	Zheng Yu Electric Appliance Fittings (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) 3G 0.75 mm ² , 60245 IEC 57 (H05RN-F) 3G 1.0 mm ²	300/500 V 3 x 0.75 mm ² , 3 x 1.0 mm ²	KC
	Zheng Yu Electric Appliance Fitting (Kunshan) Co., Ltd.	60245IEC66 (H07RN-F) 3G 1.0 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Varistor (ZNR1)	Thinking	TVR10511-M TVR14511-M	AC320 V, DC410 V, 125 °C	VDE, UL
	Thinking	TVR10471-M TVR14471-M	AC300 V, DC385 V, 125 °C	VDE, UL
	Thinking	TVR10561-M TVR14561-M	AC350 V, DC450 V, 125 °C	VDE, UL
X-Capacitor(C1, C2) (X1 or X2 type)	Kemet (Arcotronics)	R.49	250 V, 1.5 uF	VDE
	Iskra	KNB1530	250 V, 1.5 uF	VDE
	Iskra	KNB1560	250 V, 1.5 uF	VDE
	Pilkor	PCX2 337	250 V, 1.5 uF	VDE
	Pilkor	PCX2 335M	250 V, 1.5 uF	VDE
	Cheng Tung	CTX	250 V, 1.5 uF	VDE
	Vishay	339	250 V, 1.5 uF	VDE
Y-Capacitor(C3, C4, C21, C22, C23, C24, C30, C169, C179, C269) (Y1 type or Y2 type)	Welson	WD	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	WKP	250 V,	VDE

변경발급 내용
Contents of Certificate Revisions

			C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	
	VISHAY	440L	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	338 6	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
Y-Capacitor(C169, C179, C269) (Y1 type or Y2 type)	Murata	KX, KH, KY	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	Walsin	AC, AH	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	TDK-EPC	CD, CS	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	VY1	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
Bridging Capacitor (C31) (Y1 or Y2 type)	Welson	WD	250 V, 470 pF, 125 °C	VDE
	VISHAY	WKP	250 V, 470 pF, 125 °C	VDE
	VISHAY	440L	250 V, 470 pF, 125 °C	VDE
	VISHAY	338 6	250 V, 470 pF, 125 °C	VDE

- Combine Varistor ZNR1 to Varistor ("ZNR1", ZNR2, ZNR3)
- X-Capacitor (C1, C2) rating update
 - : from 250 V, 1.5 uF to Min. AC 250 V, Max. 1.5 uF
- Y-Capacitor (C3, C4, C21, C22, C23, C24, C30) rating update
 - : from 250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF

변경발급 내용
Contents of Certificate Revisions

- to Min. AC 250 V, Max.1 000 pF
- Bridging Capacitor (C31) rating update
 - : from 250 V, 470 pF, 125 °C, Y1 or Y2 type to Min. AC 250 V, Max. 2 200 pF, 125 °C, Y1 type
- Update of KC standards to KC61347-1(2022-02), KC61347-2-13(2022-02)
 - : based on CB Certificate Ref. No.: NL-89363 (DEKRA Certification B.V.) and
CB report No. 4904968.50(DEKRA Testing and Certification (Shanghai) Ltd.
Guangzhou Branch)

FP511-06

접수 번호 : 23-058789-04-1
(Receipt No.)



안전인증서

Safety Certificate

안전인증번호 : SZ11007-16005C
(Certificate No.)

제조사/수입업자명 : MEAN WELL Enterprises Co., Ltd.
(Manufacturer/importer)

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

제품명 : 조명기구용컨버터(LED용)
(Product) (Electronic controlgear)

기본모델명 : HLG-600H-20A
(Basic Model)

파생모델명 : HLG-600H-15A
(Series Model)

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 652 W (Output: DC 20 V, 28 A)
(Rating)

시험기준 : KC61347-1(2022-02), KC61347-2-13(2022-02)
(Standard)

본 인증서는 제조국명 : 대만
제조사명 : 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 11 월 03 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
PCB Material	Junda	JD-D	Min. V-1, 130 °C	UL
Alt.	Taihe	THS	Min. V-1, 130 °C	UL
Alt.	Taihe	THD	Min. V-1, 130 °C	UL
Alt.	GUANGDONG CHAOHUA	C-103	Min. V-1, 130 °C	UL
Alt.	Junda	JD-E	Min. V-1, 130 °C	UL
Alt.	Hong Shien	03V-0	Min. V-1, 130 °C	UL
Alt.	Hong Shien	-D	Min. V-1, 130 °C	UL
Alt.	Hong Shien	-M	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	4V0	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	DV2	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	MV1	Min. V-1, 130 °C	UL
Alt.	Jiin-Yu	JY-001	Min. V-1, 130 °C	UL
Alt.	Jiin-Yu	JY-003	Min. V-1, 130 °C	UL
Alt.	Shanghai Wanzheng	SWZ-1	Min. V-1, 130 °C	UL
Alt.	Junda	JD-D1	Min. V-1, 130 °C	UL
Alt.	GUANGDONG CHAOHUA	C-104, C-109	Min. V-1, 130 °C	UL
Alt.	JIANGSU DIFEIDA	DFD-2	Min. V-0, 130 °C	UL
Alt.	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, 130 °C	UL
Alt.	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, 130 °C	UL
Alt.	CHANGZHOU HAIHONG	CCE-V0, HDCM1	Min. V-0, 130 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T, ML-401	Min. V-0, 130 °C	UL
Input cord	Dongguan Lucky U nited Electric Wire & Cable Co., Ltd.	245 IEC 57 H05 RN-F 2C-3Cx0.75 mm ² - 1 mm ²	300/500 V, 3 x 0.75 mm ² - 1 mm ²	KC
Alt.	Shanghai Yusheng Enterprise Develop ment Co., Ltd	K60245 IEC 57 3Cx1.5 mm ² , K60245 IEC 57 2C-5Cx0.75 mm ² - 2.5 mm ²	300/500 V 3 x 1.5 mm ² , 3 x 0.75 mm ² -2.5 mm ²	KC
Alt.	Dongguan Ever Uni ted Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 mm ² -1.0 mm ²	300/500 V, 3 x 0.75 mm ² -1.0 mm ²	KC
Alt.	Dongguan Ever Uni ted Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0 mm ² -4 mm ²	450/750 V 3 x 1.0 mm ² -4.0 mm ²	KC
Alt.	I-Sheng Electronics (Kunshan) Co., Ltd	60245 IEC 66 (H07RN-F) (3/4/5)x (1/1.5/ 2.5)mm ²	450/750 V, 3 x (1/1.5/2.5)mm ²	KC
Alt.	Shanghai YuSheng Enterprise Develop ment Co.,Ltd.	60245 IEC66 (H 07RN-F) 3Cx1.0, 1.5,2.5,4 mm ²	450/750 V, 3 x (1/1.5/2.5/4)mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 57 (H05RN-F) 3x1.0 mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 66 (H07RN-F) 3x1.0 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Ta Tun Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F), 3G 1.0 mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 57 (H05RN-F) 3x1.0mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 66 (H07RN-F) 3x1.0mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Recheer Electric Wire & Cabl e Co., Ltd	60245 IEC 57 (H0 5RN-F), 3x 0.75/1.0/1.5/2.5 mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Recheer Electric Wire & Cabl e Co., Ltd	60245 IEC 66 (H07RN-F) (2-5)x(1.0-2.5) mm ²	450/750 V, 3 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.	I-Sheng Electronics (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) (3/4/5)×(0.75/1) mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3× 1.0 mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC66 (H07RN-F) 2~5×1.0~2.5 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	H07RN-F 2-4X1.0 mm ² -2.5 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	DONGGUAN TAWAN G ELECTRONICS CO LTD	60245 IEC 57 H0 5RN-F 2C- 3CX0.75 mm²-1 mm²	300/500 V, 3x0.75 mm²-1 mm²	KC
Fuse (FS1)	Conquer	MST	300 V, T8A	VDE
Varistor (ZNR1, ZNR2, ZNR3)	Centra Science	CNR14D511K	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Joyin	10S511K	AC320 V, DC418 V, 85°C	VDE, UL
Alt.	Joyin	14S511K	AC320 V, DC418 V, 85 °C	VDE, UL
Alt.	Joyin	14N511K	AC320 V, DC418 V, 85 °C	VDE, UL
Alt.	Thinking	TVR10511	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR10511-V	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR10511-D	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511-V	AC320 V, DC420 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511-D	AC320 V, DC410 V, 85 °C	VDE, UL
Alt.	Thinking	TVR14511-M TVR10511-M	AC320 V, DC410 V, 125 °C	VDE, UL
Alt.	Thinking	TVR10471-M TVR14471-M	AC300 V, DC385 V, 125 °C	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.	Thinking	TVR10561-M TVR14561-M	AC350 V, DC450 V, 125 °C	VDE, UL
Alt.	Huiwan	V-471K-10DEH, V-471K-14DEH	AC300 V, DC385 V, 125 °C	UL
Alt.	Huiwan	V-511K-10DEH, V-511K-14DEH	AC320 V, DC415 V, 125 °C	UL
Alt.	Huiwan	V-561K-10DEH, V-561K-14DEH	AC350 V, DC450 V, 125 °C	UL
X-Capacitor (C1, C2) (X1 or X2 type)	Kemet (Arcotronics)	R.46	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Epcos	B3292#	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Liow Gu	GS-L	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Ultra Tech	HQX	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Hua Jung	MKP	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Carli	MPX	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Joey	MPX	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Nissei	MP1	Min. AC 250 V, Max. 1.5 uF	VDE
Y-Capacitor (C3, C4, C21, C22, C2 3, C24, C30) (Y1 type or Y2 type)	Murata	KX, KH, KY	Min. AC 250 V, Max.1 000 pF	VDE
Alt.	Walsin	AC, AH	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	TDK-EPC	CD, CS	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	VISHAY	VY1	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Huiwan	AR	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Huiwan	AB	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Wanming	HJ	Min. AC 250 V, Max. 1 000 pF	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Wanming	HM	Min. AC 250 V, Max. 1 000 pF	VDE
Bridging Capacitor (C31) (Y1 type)	Murata	KX, KH, KY	Min. AC 250 V, Max. 2200 pF, 125 °C	VDE
Alt.	Walsin	AC, AH	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	TDK-EPC	CD, CS	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	VISHAY	VY1	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	Huiwan	AR	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	Wanming	HJ	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Choke (LF1)	Mean Well	TR-1144	Min. 105 °C	Tested with appliance (Nemko)
Choke (LF2, LF3)	Mean Well	TR-1145	Min. 105 °C	Tested with appliance (Nemko)
Choke (L2, L3)	Mean Well	TF-2689	Min. 105 °C	Tested with appliance (Nemko)
Photo Coupler (U3, U4, U5, U50 2, U503)	Lite-On	LTV-817, LTV-817M	Dti= 0.8 mm Int. dcr= 5.2 mm Ext. dcr= 7.0 mm, thermal cyclin g test, 115 °C	VDE, S, UL
Alt.	Sharp	PC123	Dti= 0.7 mm Int. dcr= 5 mm Ext. dcr= 8.0 mm, thermal cycling test, 110 °C	VDE, S, UL
Alt.	Cosmo	K1010	Dti= 0.5 mm Int. dcr= 5.3 mm Ext. dcr= 8 m m, thermal cycling tes t, 115 °C	VDE, S, UL
Alt.	Renesas	PS2561DL1-1	Dti= 0.4 mm Ext. dcr= 8 mm, thermal cycling test, 110 °C	VDE, FI, UL
Alt.	CT-Micro	CT817	Dti=0.4 mm Int. dcr=5.3 mm Ext. dcr=8.0 mm, thermal cycling test, 10 0 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Transformer (T1, T2)(For HLG-600H-15, HLG-600H-15B)	Mean Well	TF-2680	Class B	Tested with appliance (Nemko)
Transformer (T1, T2)(For HLG-600H-20, HLG-600H-20B)	Mean Well	TF-2681	Class B	Tested with appliance (Nemko)
Transformer (T500)	Mean Well	TF-2690	Class B	Tested with appliance (Nemko)
Alt.	Yu Jing	TF-2690	Class B	Tested with appliance (Nemko)
Potting Compound	DOW Corning Corp	SYLGARD 160	150 °C	UL
Alt.	Shin-Etsu Silicone	KET-132A/B	150 °C	UL
Alt.	GUANGZHOU huitian	5299	150 °C	UL
Alt.	Shin-Etsu Silicone	KET-132 A/B H	150 °C	UL
Alt.	U BOND	UB-5203	105 °C	UL
Alt.	LINKTECH	EncapSil 1400	150 °C	UL

유의사항 (Attention) :

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

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

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

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

□ 첨부 2 : 기본모델 · 파생모델의 내용
Description of the basic and series model

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
HLG-600H-15A	Rated output (DC15 V, 36 A, 540 W), Without dimming function, Transformer type (TF-2680)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report No. : 16-038046-01 (2016.08.22.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - Rated input : AC100-240 V, 50/60 Hz, 652 W, 7.0-2.85 A - Rated output current : 28 A - Output voltage : DC20 V - Rated output wattage : 560 W - tc: 90 °C, ta: +50 °C - Power factor : 0.9 - Thermally protection : 110 °C - With dimming function - IP rating : IP65 - This product is filled with potting - Constant voltage type, Independent SELV controlgear <p>* factory information</p> <ul style="list-style-type: none"> - MEAN WELL (Guangzhou) Electronics Co.,Ltd. No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China 	
<p>□ 본 제품의 검토내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험 담당자 / 연락처 : 디지털산업본부 전기전자기술센터 석 대일 / (02)860-1494</p> <p>□ <i>If you have any question on product review, please contact the person below :</i> Job holder : S.M.A.R.T. Industry Division, Electrical and Electronic Technology Center, Daeil Seok/+82 2 860-1494</p>	

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions		
1 st Rev.) Addition of components and factory (18-056943-05-2 : 2018.09.19.)		
- Addition of components		
Input cord	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 57 (H05RN-F) 3×1.0 mm ²
		60245 IEC 66 (H07RN-F) 3×1.0 mm ²
	Dongguan Ta Tun Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F), 3G 1.0 mm ²
	Zheng Yu Electric Appliance Fitting (Kunshan) Co., Ltd.	60245IEC66(H07RN-F) 3G 1.0 mm ²
	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 57 (H05RN-F) 3x1.0mm ²
		60245 IEC 66 (H07RN-F) 3x1.0mm ²
	Dongguan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 57 (H05RN-F), 3×0.75/1.0/1.5/2.5 mm ²
		60245 IEC 66 (H07RN-F) (2-5)×(1.0-2.5)mm ²
	I-Sheng Electronics (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) (3/4/5)×(0.75/1)mm ²
	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3×1.0 mm ²
		60245 IEC66 (H07RN-F) 2~5×1.0~2.5 mm ²
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	H07RN-F 2-4X1.0 mm ² -2.5 mm ²
- Addition of factory		
Name	MEAN WELL (GUANGZHOU) Electronics Co., Ltd. Huadu Branch	
Address	No. 11, Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China	

변경발급 내용
Contents of Certificate Revisions

2nd Rev.) Change name, president and address of factory (21-082212-04-1 : 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

3rd Rev.) components modifications and update of KC standards
 (23-058789-04-1 : 2023.11.03.)

- Addition of alternative components

Component(Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
PCB Material	Junda	JD-D1	Min. V-1, 130 °C	UL
	GUANGDONG CHAOHUA	C-104, C-109	Min. V-1, 130 °C	UL
	JIANGSU DIFEIDA	DFD-2	Min. V-0, 130 °C	UL
	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, 130 °C	UL
	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, 130 °C	UL
	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, 130 °C	UL
	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T, ML-401	Min. V-0, 130 °C	UL
Input cord	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F 2C-3CX0.75 mm ² -1 mm ²	300/500 V, 3x0.75 mm ² -1 mm ²	KC
Varistor (ZNR1, ZNR2, ZNR3)	Huiwan	V-471K-10DEH, V-471K-14DEH	AC300 V, DC385 V, 125 °C	UL
	Huiwan	V-511K-10DEH, V-511K-14DEH	AC320 V, DC415 V, 125 °C	UL
	Huiwan	V-561K-10DEH, V-561K-14DEH	AC350 V, DC450 V, 125 °C	UL
X-Capacitor(C1, C2) (X1 or X2 type)	Hua Jung	MKP	Min. AC 250 V, Max. 1.5 μF	VDE
	Carli	MPX	Min. AC 250 V, Max. 1.5 μF	VDE
	Joey	MPX	Min. AC 250 V, Max. 1.5 μF	VDE
	Nissei	MP1	Min. AC 250 V, Max. 1.5 μF	VDE
Y-Capacitor (C3, C4, C21, C22, C23, C24, C30) (Y1 type or Y2 type)	Huiwan	AR	Min. AC 250 V, Max. 1 000 pF	VDE
	Huiwan	AB	Min. AC 250 V, Max. 1 000 pF	VDE
	Wanming	HJ	Min. AC 250 V, Max. 1 000 pF	VDE

변경발급 내용
Contents of Certificate Revisions

	Wanming	HM	Min. AC 250 V, Max. 1 000 pF	VDE
Bridging Capacitor (C31) (Y1 type)	Huiwan	AR	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
	Wanming	HJ	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Photo Coupler (U3, U4, U5, U502, U503)	CT-Micro	CT817	Dti=0.4 mm Int. dcr=5.3 mm Ext. dcr=8.0 mm, thermal cycling test, 100 °C	VDE
Potting Compound	LINKTECH	EncapSil 1400	150 °C	UL

- Delete of components

Component(Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
PCB Material	Hsiang kuo	76V0A	Min. V-1, 130 °C	UL
	Brite Plus Electronics	DGV0-3A	Min. V-1, 130 °C	UL
Input cord	Zheng Yu Electric Appliance Fittings (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) 3G 0.75 mm ² , 60245 IEC 57 (H05RN-F) 3G 1.0 mm ²	300/500 V 3 x 0.75 mm ² , 3 x 1.0 mm ²	KC
	Zheng Yu Electric Appliance Fitting (Kunshan) Co., Ltd.	60245IEC66 (H07RN-F) 3G 1.0 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Varistor (ZNR1)	Thinking	TVR10511-M TVR14511-M	AC320 V, DC410 V, 125 °C	VDE, UL
	Thinking	TVR10471-M TVR14471-M	AC300 V, DC385 V, 125 °C	VDE, UL
	Thinking	TVR10561-M TVR14561-M	AC350 V, DC450 V, 125 °C	VDE, UL
X-Capacitor(C1, C2) (X1 or X2 type)	Kemet (Arcotronics)	R.49	250 V, 1.5 uF	VDE
	Iskra	KNB1530	250 V, 1.5 uF	VDE
	Iskra	KNB1560	250 V, 1.5 uF	VDE
	Pilkor	PCX2 337	250 V, 1.5 uF	VDE
	Pilkor	PCX2 335M	250 V, 1.5 uF	VDE
	Cheng Tung	CTX	250 V, 1.5 uF	VDE
	Vishay	339	250 V, 1.5 uF	VDE
Y-Capacitor(C3, C4, C21, C22, C23, C24, C30, C169, C179, C269) (Y1 type or Y2 type)	Welson	WD	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	WKP	250 V,	VDE

변경발급 내용
Contents of Certificate Revisions

			C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	
	VISHAY	440L	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	338 6	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
Y-Capacitor(C169, C179, C269) (Y1 type or Y2 type)	Murata	KX, KH, KY	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	Walsin	AC, AH	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	TDK-EPC	CD, CS	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	VY1	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
Bridging Capacitor (C31) (Y1 or Y2 type)	Welson	WD	250 V, 470 pF, 125 °C	VDE
	VISHAY	WKP	250 V, 470 pF, 125 °C	VDE
	VISHAY	440L	250 V, 470 pF, 125 °C	VDE
	VISHAY	338 6	250 V, 470 pF, 125 °C	VDE

- Combine Varistor ZNR1 to Varistor ("ZNR1", ZNR2, ZNR3)
- X-Capacitor (C1, C2) rating update
 - : from 250 V, 1.5 uF to Min. AC 250 V, Max. 1.5 uF
- Y-Capacitor (C3, C4, C21, C22, C23, C24, C30) rating update
 - : from 250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF

변경발급 내용
Contents of Certificate Revisions

- to Min. AC 250 V, Max.1 000 pF
- Bridging Capacitor (C31) rating update
 - : from 250 V, 470 pF, 125 °C, Y1 or Y2 type to Min. AC 250 V, Max. 2 200 pF, 125 °C, Y1 type
- Update of KC standards to KC61347-1(2022-02), KC61347-2-13(2022-02)
 - : based on CB Certificate Ref. No.: NL-89363 (DEKRA Certification B.V.) and CB report No. 4904968.50(DEKRA Testing and Certification (Shanghai) Ltd. Guangzhou Branch)

FP511-06

접수 번호 : 23-058789-05-1
(Receipt No.)



안전인증서

Safety Certificate

안전인증번호 : SZ11007-16001C
(Certificate No.)

제조사/수입업자명 : MEAN WELL Enterprises Co., Ltd.
(Manufacturer/importer)

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

제품명 : 조명기구용컨버터(LED용)
(Product) (Electronic controlgear)

기본모델명 : HLG-600H-36A
(Basic Model)

파생모델명 : Not Applicable
(Series Model)

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 652 W (Output: DC 20 V, 28 A)
(Rating)

시험기준 : KC61347-1(2022-02), KC61347-2-13(2022-02)
(Standard)

본 인증서는 제조국명 : 대만
제조사명 : 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 11 월 06 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
PCB Material	Junda	JD-D	Min. V-1, 130 °C	UL
Alt.	Taihe	THS	Min. V-1, 130 °C	UL
Alt.	Taihe	THD	Min. V-1, 130 °C	UL
Alt.	GUANGDONG CHAOHUA	C-103	Min. V-1, 130 °C	UL
Alt.	Junda	JD-E	Min. V-1, 130 °C	UL
Alt.	Hong Shien	03V-0	Min. V-1, 130 °C	UL
Alt.	Hong Shien	-D	Min. V-1, 130 °C	UL
Alt.	Hong Shien	-M	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	4V0	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	DV2	Min. V-1, 130 °C	UL
Alt.	Hsu Tzu	MV1	Min. V-1, 130 °C	UL
Alt.	Jiin-Yu	JY-001	Min. V-1, 130 °C	UL
Alt.	Jiin-Yu	JY-003	Min. V-1, 130 °C	UL
Alt.	Shanghai Wanzheng	SWZ-1	Min. V-1, 130 °C	UL
Alt.	Junda	JD-D1	Min. V-1, 130 °C	UL
Alt.	GUANGDONG CHAOHUA	C-104, C-109	Min. V-1, 130 °C	UL
Alt.	JIANGSU DIFEIDA	DFD-2	Min. V-0, 130 °C	UL
Alt.	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, 130 °C	UL
Alt.	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, 130 °C	UL
Alt.	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, 130 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T, ML- 401	Min. V-0, 130 °C	UL
Input cord	Dongguan Lucky United Electric Wire & Cable Co., Ltd.	245 IEC 57 H05RN-F 2C- 3CX0.75mm ² -1mm ²	300/500 V , 3x0.75 mm ² -1 mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3x0.75mm ² , 60245 IEC 57 (H05RN-F) 3x1.0mm ² , 60245 IEC 57 (H05RN-F) 3x1.5mm ² , 60245 IEC 57 (H05RN-F) 3x2.5mm ²	300/500 V, 3x0.75 mm ² , 3x1.0 mm ² , 3x1.5 mm ² , 3x2.5 mm ²	KC
Alt.	I-Sheng Electronics (Kunshan) Co., Ltd	60245 IEC 57 (H05RN-F) (3/4/5)x(0.75/1) mm ²	300/500 V 3x0.75 mm ² , 3x1.0 mm ²	KC
Alt.	Shanghai Yusheng Enterprise Development Co., Ltd	K60245 IEC 57 3Cx1.5mm ² , K60245 IEC 57 2C-5Cx0.75mm ² - 2.5mm ²	300/500 V 3Cx1.5 mm ² , 3Cx0.75 mm ² -2.5 mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 57 (H05RN-F) 3x1.0mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 66 (H07RN-F) 3x1.0mm ²	450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Ta Tun Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F), 3G 1.0mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 57 (H05RN-F) 3x1.0mm ²	300/500 V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 66 (H07RN-F) 3x1.0mm ²	450/750 V, 3 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.	Dongguan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 57 (H05RN-F), 3×0.75/1.0/1.5/2.5 mm ²	300/500 V, 3 × 1.0 mm ²	KC
Alt.	Dongguan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 66 (H07RN-F) (2-5)×(1.0-2.5) mm ²	450/750 V, 3 × 1.0 mm ²	KC
Alt.	I-Sheng Electronics (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) (3/4/5)×(0.75/1) mm ²	300/500 V, 3 × 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3×1.0mm ²	300/500 V, 3 × 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC66 (H07RN-F) 2~5×1.0~2.5 mm ²	450/750 V, 3 × 1.0 mm ²	KC
Alt.	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	H07RN-F 2-4X1.0mm ² -2.5mm ²	450/750 V, 3 × 1.0 mm ²	KC
Alt.	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F 2C-3CX0.75mm²-1mm²	300/500 V , 3x0.75 mm²-1 mm²	KC
Fuse (FS1)	Conquer	MST	T8 A, 300 V	VDE
Varistor (ZNR1, ZNR2, ZNR3)	Centra Science	CNR14D511K	AC320 V, DC410 V, 85 °C	UL
Alt.	Joyin	14S511K 10S511K	AC320 V, DC418 V, 85 °C	UL
Alt.	Joyin	14N511K	AC320 V, DC418 V, 85 °C	UL
Alt.	Thinking	TVR10511, TVR14511	AC320 V, DC410 V, 85 °C	UL
Alt.	Thinking	TVR10511-V	AC320 V, DC410 V, 85 °C	UL
Alt.	Thinking	TVR14511-V	AC320 V, DC420 V, 85 °C	UL
Alt.	Thinking	TVR10511-D, TVR14511-D	AC320 V, DC410 V, 85 °C	UL
Alt.	Thinking	TVR10511-M, TVR14511-M	AC320 V, DC410 V, 125 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Thinking	TVR10561-M, TVR14561-M	AC 350 V, DC450 V, 125 ℃	UL
Alt.	Thinking	TVR10471-M, TVR14471-M	AC300 V, DC385 V, 125 ℃	UL
Alt.	Thinking	TVR10471-D, TVR14471-D	AC300 V, DC385 V, 105 ℃	UL
Alt.	Thinking	TVR10561-D, TVR14561-D	AC350 V, DC450 V, 105 ℃	UL
Alt.	Huiwan	V-471K-10DEH, V-471K-14DEH	AC300 V, DC385 V, 125 ℃	UL
Alt.	Huiwan	V-511K-10DEH, V-511K-14DEH	AC320 V, DC415 V, 125 ℃	UL
Alt.	Huiwan	V-561K-10DEH, V-561K-14DEH	AC350 V, DC450 V, 125 ℃	UL
X-Capacitor (C1, C2)	Kemet (Arcotronics)	R.46	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Epcos	B3292#	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Liow Gu	GS-L	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Ultra Tech	HQX	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Hua Jung	MKP	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Carli	MPX	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Joey	MPX	Min. AC 250 V, Max. 1.5 uF	VDE
Alt.	Nissei	MP1	Min. AC 250 V, Max. 1.5 uF	VDE
Y-Capacitor (C3, C4, C21, C22, C2 3, C24, C30) (Y1 type or Y2 type)	Murata	KX, KH, KY	Min. AC 250 V, Max.1 000 pF	VDE
Alt.	Walsin	AC, AH	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	TDK-EPC	CD, CS	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	VISHAY	VY1	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Huiwan	AR	Min. AC 250 V, Max. 1 000 pF	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Huiwan	AB	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Wanming	HJ	Min. AC 250 V, Max. 1 000 pF	VDE
Alt.	Wanming	HM	Min. AC 250 V, Max. 1 000 pF	VDE
Bridging Capacitor (C31) (Y1 type)	Murata	KX, KH, KY	Min. AC 250 V, Max. 2200 pF, 125 °C	VDE
Alt.	Walsin	AC, AH	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	TDK-EPC	CD, CS	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	VISHAY	VY1	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	Huiwan	AR	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Alt.	Wanming	HJ	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Choke (LF1)	Mean Well	TR-1144	Min. 105 °C	Tested with appliance (Nemko)
Choke (LF2, LF3)	Mean Well	TR-1145	Min. 105 °C	Tested with appliance (Nemko)
Choke (L2, L3)	Mean Well	TF-2689	Min. 105 °C	Tested with appliance (Nemko)
Photo Coupler (U3, U4, U5, U50 2, U503)	Lite-On	LTV-817, LTV-817M	Dti= 0.8 mm Int. dcr= 5.2 mm Ext. dcr= 7.0 mm, thermal cycling te st, 115 °C	VDE, S, UL
Alt.	Sharp	PC123	Dti= 0.7 mm Int. dcr= 5 mm Ext. dcr= 8.0 mm, thermal cycling test, 110 °C	VDE, S, UL
Alt.	Cosmo	K1010	Dti= 0.5 mm Int. dcr= 5. 3 mm Ext. dcr= 8 mm, t hermal cycling test, 115 ° C	VDE, S, UL
Alt.	Renesas	PS2561DL1-1	Dti= 0.4 mm Ext. dcr= 8 mm, thermal cycling test, 110 °C	VDE, FI, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	CT-Micro	CT817	Dti=0.4 mm Int. dcr=5.3 mm Ext. dcr=8.0 mm, thermal cycling test, 100 ° C	VDE
Transformer (T1, T2)(For HLG- 600H-15, HLG-600H-15B)	Mean Well	TF-2680	Class B	Tested with appliance (Nemko)
Transformer (T1, T2)(For HLG- 600H-20, HLG-600H-20B)	Mean Well	TF-2681	Class B	Tested with appliance (Nemko)
Transformer (T500)	Mean Well	TF-2690	Class B	Tested with appliance (Nemko)
Alt.	Yu Jing	TF-2690	Class B	Tested with appliance (Nemko)
Potting Compound	DOW Corning Corp	SYLGARD 160	150 °C	UL
Alt.	Shin-Etsu Silicone	KET-132A/B	150 °C	UL
Alt.	GUANGZHOU huitian	5299	150 °C	UL
Alt.	Shin-Etsu Silicone	KET-132 A/B H	150 °C	UL
Alt.	U BOND	UB-5203	105 °C	UL
Alt.	LINKTECH	EncapSil 1400	150 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
<p><input type="checkbox"/> 유의사항 (Attention) :</p> <p>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.</p> <p><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></p> <p>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.</p> <p><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></p>				

FP511-04

첨부 2 : 기본모델 · 파생모델의 내용
Description of the basic and series model

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
Not applicable	
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Test report No. : 16-005899-01(2016.04.26.)</p> <p>2. Products Description</p> <ul style="list-style-type: none"> - Rated input : AC100-240 V, 50/60 Hz, 652 W, 6.6~2.85 A - Rated output voltage : DC36 V - tc : 90 °C, ta : +50 °C - PF : 0.9 - Class of equipment : Class I - IP rating: IP65 - Constant voltage type, Independent SELV - This product is filled with potting <p>* factory information</p> <ul style="list-style-type: none"> - MEAN WELL (Guangzhou) Electronics Co.,Ltd. <li style="padding-left: 20px;">No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China 	
<p><input type="checkbox"/> 본 제품의 검토내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험 담당자 / 연락처 : 디지털산업본부 전기전자기술센터 석 대일 / (02)860-1494</p> <p><input type="checkbox"/> <i>If you have any question on product review, please contact the person below :</i> Job holder : S.M.A.R.T. Industry Division, Electrical and Electronic Technology Center, Daeil Seok/+82 2 860-1494</p>	

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions		
1 st Rev.) Addition of components and factory (18-056943-03-2 : 2018.09.19.)		
- Addition of components		
Input cord	Component	Model
	Guangdong Rifeng Electrical Cable Co.,Ltd	60245 IEC 57 (H05RN-F) 3×1.0 mm ²
		60245 IEC 66 (H07RN-F) 3×1.0 mm ²
	Dongguan Ta Tun Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F), 3G 1.0 mm ²
	Zheng Yu Electric Appliance Fitting (Kunshan) Co., Ltd.	60245IEC66(H07RN-F) 3G 1.0 mm ²
	Zhenjiang Zhongjia Electric Co.,Ltd	60245 IEC 57 (H05RN-F) 3x1.0mm2
		60245 IEC 66 (H07RN-F) 3x1.0mm2
	Dongguan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 57 (H05RN-F), 3×0.75/1.0/1.5/2.5 mm ²
		60245 IEC 66 (H07RN-F) (2-5)×(1.0-2.5)mm ²
	I-Sheng Electronics (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) (3/4/5)×(0.75/1)mm ²
	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3×1.0 mm ²
		60245 IEC66 (H07RN-F) 2~5×1.0~2.5 mm ²
	Dongguan Lucky United Electric Wire & Cable Co.,Ltd	H07RN-F 2-4X1.0 mm ² -2.5 mm ²
	- Addition of factory	
Name	MEAN WELL (GUANGZHOU) Electronics Co., Ltd. Huadu Branch	
Address	No. 11, Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China	

변경발급 내용
Contents of Certificate Revisions

2nd Rev.) Change name, president and address of factory (21-082212-08-1 : 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

3rd Rev.) components modifications and update of KC standards
 (23-058789-05-1 : 2023.11.06.)
 - Addition of alternative components

Component(Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
PCB Material	Junda	JD-D1	Min. V-1, 130 °C	UL
	GUANGDONG CHAOHUA	C-104, C-109	Min. V-1, 130 °C	UL
	JIANGSU DIFEIDA	DFD-2	Min. V-0, 130 °C	UL
	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, 130 °C	UL
	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, 130 °C	UL
	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, 130 °C	UL
	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T, ML-401	Min. V-0, 130 °C	UL
Input cord	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F 2C-3CX0.75 mm ² -1 mm ²	300/500 V, 3x0.75 mm ² -1 mm ²	KC
Varistor (ZNR1, ZNR2, ZNR3)	Huiwan	V-471K-10DEH, V-471K-14DEH	AC300 V, DC385 V, 125 °C	UL
	Huiwan	V-511K-10DEH, V-511K-14DEH	AC320 V, DC415 V, 125 °C	UL
	Huiwan	V-561K-10DEH, V-561K-14DEH	AC350 V, DC450 V, 125 °C	UL
X-Capacitor(C1, C2) (X1 or X2 type)	Hua Jung	MKP	Min. AC 250 V, Max. 1.5 μF	VDE
	Carli	MPX	Min. AC 250 V, Max. 1.5 μF	VDE
	Joey	MPX	Min. AC 250 V, Max. 1.5 μF	VDE
	Nissei	MP1	Min. AC 250 V, Max. 1.5 μF	VDE
Y-Capacitor (C3, C4, C21, C22, C23, C24, C30) (Y1 type or Y2 type)	Huiwan	AR	Min. AC 250 V, Max. 1 000 pF	VDE
	Huiwan	AB	Min. AC 250 V, Max. 1 000 pF	VDE
	Wanming	HJ	Min. AC 250 V, Max. 1 000 pF	VDE

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	Wanming	HM	Min. AC 250 V, Max. 1 000 pF	VDE
Bridging Capacitor (C31) (Y1 type)	Huiwan	AR	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
	Wanming	HJ	Min. AC 250 V, Max. 2 200 pF, 125 °C	VDE
Photo Coupler (U3, U4, U5, U502, U503)	CT-Micro	CT817	Dti=0.4 mm Int. dcr=5.3 mm Ext. dcr=8.0 mm, thermal cycling test, 100 °C	VDE
Potting Compound	LINKTECH	EncapSil 1400	150 °C	UL

- Delete of components

Component(Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
PCB Material	Hsiang kuo	76V0A	Min. V-1, 130 °C	UL
	Brite Plus Electronics	DGV0-3A	Min. V-1, 130 °C	UL
Input cord	Zheng Yu Electric Appliance Fittings (Kunshan) Co., Ltd.	60245 IEC 57 (H05RN-F) 3G 0.75 mm ² , 60245 IEC 57 (H05RN-F) 3G 1.0 mm ²	300/500 V 3 x 0.75 mm ² , 3 x 1.0 mm ²	KC
	Zheng Yu Electric Appliance Fitting (Kunshan) Co., Ltd.	60245IEC66 (H07RN-F) 3G 1.0 mm ²	450/750 V, 3 x 1.0 mm ²	KC
Varistor (ZNR1)	Thinking	TVR10511-M TVR14511-M	AC320 V, DC410 V, 125 °C	VDE, UL
	Thinking	TVR10471-M TVR14471-M	AC300 V, DC385 V, 125 °C	VDE, UL
	Thinking	TVR10561-M TVR14561-M	AC350 V, DC450 V, 125 °C	VDE, UL
X-Capacitor(C1, C2) (X1 or X2 type)	Kemet (Arcotronics)	R.49	250 V, 1.5 uF	VDE
	Iskra	KNB1530	250 V, 1.5 uF	VDE
	Iskra	KNB1560	250 V, 1.5 uF	VDE
	Pilkor	PCX2 337	250 V, 1.5 uF	VDE
	Pilkor	PCX2 335M	250 V, 1.5 uF	VDE
	Cheng Tung	CTX	250 V, 1.5 uF	VDE
	Vishay	339	250 V, 1.5 uF	VDE
Y-Capacitor(C3, C4, C21, C22, C23, C24, C30, C169, C179, C269) (Y1 type or Y2 type)	Welson	WD	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	WKP	250 V,	VDE

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			C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	
	VISHAY	440L	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	338 6	250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
Y-Capacitor(C169, C179, C269) (Y1 type or Y2 type)	Murata	KX, KH, KY	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	Walsin	AC, AH	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	TDK-EPC	CD, CS	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
	VISHAY	VY1	250 V, C169,C179 = 1 000 pF, C269 = 330 pF	VDE
Bridging Capacitor (C31) (Y1 or Y2 type)	Welson	WD	250 V, 470 pF, 125 °C	VDE
	VISHAY	WKP	250 V, 470 pF, 125 °C	VDE
	VISHAY	440L	250 V, 470 pF, 125 °C	VDE
	VISHAY	338 6	250 V, 470 pF, 125 °C	VDE

- Combine Varistor ZNR1 to Varistor ("ZNR1", ZNR2, ZNR3)
- TVR10561-M, TVR14561-M rating update
 - : from AC AC 320 V to AC 350 V
- X-Capacitor (C1, C2) rating update
 - : from 250 V, 1.5 uF to Min. AC 250 V, Max. 1.5 uF

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- Combine Y-Capacitor C21,C22,C30 to Y-Capacitor (C3, C4, C23, C24, C21, C22, C30)
- Y-Capacitor (C3, C4, C21, C22, C23, C24, C30) rating update
 - : from 250 V, C3,C4,C23,C24 = 680 pF, C21,C22 = 220 pF, C30 = 470 pF
 - to Min. AC 250 V, Max.1 000 pF
- Bridging Capacitor (C31) rating update
 - : from 250 V, 470 pF, 125 °C, Y1 or Y2 type to Min. AC 250 V, Max. 2 200 pF, 125 °C, Y1 type
- Update of KC standards to KC61347-1(2022-02), KC61347-2-13(2022-02)
 - : based on CB Certificate Ref. No.: NL-89363 (DEKRA Certification B.V.) and CB report No. 4904968.50(DEKRA Testing and Certification (Shanghai) Ltd. Guangzhou Branch)

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