

접 수 번 호 : 24-030235-02-1
(Receipt No.)



안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 : SU11358-17001F
(Certificate No.)

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

주 소 : No.11 Jingu South Road, Huadu District, Guangzhou 510890,
(Address) Guangdong, China

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

기 본 모 델 명 : HLG-480H-54B
(Basic Model)

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

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 550 W (output : DC 54 V)
(Rating)

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

본 인증서는 제 조 국 명 : 중국
제 조 업 자 명 : MEAN WELL (Guangzhou) Electronics Co.,Ltd.
제조공장의 주소 : No.11 Jingu South Road, Huadu District, Guangzhou 510890
, Guangdong, China
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.

2024 년 06 월 18 일
Year month day

한국산업기술시험원장
KOREA TESTING LABORATORY



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

첨부서류

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3. 안전인증의 변경 현황 (Revisions Status)

다수 공장의 현황
(The status of Multiple Factories)

No	현 황	
1	다수 공장의 명 (Name)	MEAN WELL Enterprises Co., Ltd.
	주소 (Address)	No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R. O.C.)
	제조국명 (Origin)	대만

□ 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	SHUNDE JUNDA	JD-D, JD-E	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	Tai He PCB Company Limited	THS THD1	Min. V-1, min. 130 °C	UL
Alt.	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T ML-401	Min. V-0, min. 130 °C	UL
Alt.	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, min. 130 °C	UL
Alt.	HONG SHIEN	03V-0, -D, -M	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	HSU TZU	4V0, DV2, MV1	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	JIIN-YU	JY-001, JY-003	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	Brite Plus	DGV0-3A	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	SHANGHAI WANZHENG	SWZ-1	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	GUANGDONG CHAOHUA	C-103	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	Guangdong Chaohua Technology Co., Ltd.	C-104	V-0, 130 °C	UL
Alt.	Kunshan Guangqian Electronics Co., Ltd.	D, D1	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.	Jiangsu Difeida Electronics Co., Ltd.	DFD-2	V-0, 130 °C	UL
Alt.	Hsu Tzu Electronic Co., Ltd.	DV0	V-0, 130 °C	UL
Alt.	Suzhou Wutong Electronics Co., Ltd.	GS-2	V-0, 130 °C	UL
Alt.	Guangzhou Taihua Multilayer Circuit Board Co., Ltd.	ST-01	V-0, 130 °C	UL
Alt.	Shanghai Wanzheng Circuit Board Co., Ltd.	SWZ-2	V-0, 130 °C	UL
Input wires	Dong Guan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 57 (H05RN-F) 3×0.75/1.0/1.5/2.5 mm ²	AC300/500 V, 3 × 1.0 mm ²	KC
Alt.	Dong Guan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 66 (H07RN-F) (2-5)×(1.0-2.5)mm ²	AC450/750 V, 3 × 1.0 mm ²	KC
Alt.	I-Sheng Electronics (Kunshan) Co., Ltd.	60245 IEC 66 (H07RN-F) (3/4/5)×(1/1.5/2.5)mm ²	AC450/750 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	AC300/500 V, 3 × 1.0 mm ²	KC
Alt.	Lucky United Electric Wire & Cable Co., Ltd.	245 IEC 57 H05RN-F 2C-3CX0.75 mm ² -1 mm ²	AC300/500 V, 3 × 1.0 mm ²	KC
Alt.	Lucky United Electric Wire & Cable Co., Ltd.	H07RN-F 2-4X1.0 mm ² -2.5 mm ²	AC450/750 V, 3 × 1.0 mm ²	KC
Alt.	Standard Electric Wire & Cable Co., Ltd.	60245 IEC 57(H05RN-F) 3x1.0 mm ²	AC300/500 V, 3 × 1.0 mm ²	KC
Alt.	Standard Electric Wire & Cable Co., Ltd.	60245 IEC 66 H07RN-F) 3 × 1.0 mm ²	AC450/750 V, 3 × 1.0 mm ²	KC
Alt.	Dongguan Ta Tun Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3Gx1.0 mm ²	AC300/500 V, 3 × 1.0 mm ²	KC
Alt.	Zheng Yu Electric Appliance Fittings Co., Ltd	60245 IEC 57(H05RN-F) 3Gx1.0 mm ²	AC300/500 V, 3 × 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.	Zheng Yu Electric Appliance Fittings Co., Ltd	60245 IEC 66(H07RN-F) 3G 1.0 mm ²	AC450/750 V, 3 x 1.0 mm ²	KC
Alt.	Shanghai Yusheng Enterprise Development Co., Ltd	K60245 IEC 57 2C-5Cx0.75 mm ² -2.5 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Shanghai Yusheng Enterprise Development Co., Ltd	60245 IEC 66 (H07RN-F) 3x1.0,1.5,1.5,4 mm ²	AC450/750/ V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co., Ltd	60245 IEC 57 (H05RN-F) 3x1.0 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co., Ltd	60245 IEC 66(H07RN-F) 3x1.0 mm ²	AC450/750 V, 3 x 1.0 mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co., Ltd	60245 IEC 57 (H05RN-F) 3x 1.0 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co., Ltd	60245 IEC 66 (H07RN-F) 3x 1.0 mm ²	AC450/750 V, 3 x 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F 3G1.0)	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 66 (H07RN-F) 2~5x1.0~2.5 mm ²	AC450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G 0.75 mm ² -1.0 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G 1.0 mm ² -4 mm ²	AC450/750 V, 3 x 1.0 mm ²	KC
Alt.	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F 3G 0.75 mm ² -1.0 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Fuse (FS1)	Conquer	MST-series	T 8 A, AC 250 V or AC 300 V	TUV Rh
Varistor (ZNR1, ZNR2)	Thinking	TVR14511-M, TVR10511-M	AC 320 V, DC 410 V, Min. 125 °C	VDE, UL
Alt.	Thinking	TVR14471-M, TVR10471-M	AC 300 V, DC 385 V, Min. 125 °C	VDE, UL
Alt.	Thinking	TVR14561-M, TVR10561-M	AC 350 V, DC 450 V, Min. 125 °C	VDE, UL
X-Capacitor (C1)	Kemet Electronics (ARCOTRONICS)	R.49	Min. AC 310 V, Max.0.82 μ F, min. 110 °C	ENEC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Cheng Tung	CTX	Min. AC 310 V, Max.0.82 μF, min. 105 °C	ENEC
Alt.	Kemet Electronics (ARCOTRONICS)	R.46	Min. AC 275 V, Max.0.82 μF, min. 110 °C	ENEC
Alt.	Epcos	B3292#-...	Min. AC 275 V, Max.0.82 μF, min. 110 °C	VDE
Alt.	Epcos	B3292#CD series	Min. AC 305 V, Max.0.82 μF, min. 105 °C	ENEC
Alt.	ISKRA	KNB 1560	Min. AC 275 V, Max.0.82 μF, min. 110 °C	VDE
Alt.	ISKRA	KNB 1530	Min. AC 275 V, Max.0.82 μF, min. 100 °C	VDE
Alt.	Cowell Fashion (Pilkor)	PCX2 335M	Min. AC 275 V, Max.0.82 μ F, min. 100 °C	ENEC
Alt.	Cowell Fashion (Pilkor)	PCX2 337	Min. AC 275 V, Max.0.82 μF, min. 100 °C	ENEC
Alt.	Ultra Tech Xiphi	HQX	Min. AC 275 V, Max.0.82 μF, min. 100 °C	VDE
Alt.	Joey	MPX	Min. AC 275 V, Max.0.82 μF, min. 105 °C	VDE
Alt.	Xiamen Faratronic	MKP62	Min. AC 275 V, Max.0.82 μF, min. 110 °C	VDE
Alt.	Hua Jung	MKP	Min. AC 250 V, Max.0.82 μF, min. 110 °C	ENEC
Alt.	Carli Electronics	MPX	Min. AC 275 V, Max.0.82 μF, min. 100 °C	VDE
Alt.	Okaya	LE	Min. AC 250 V, Max.0.82 μF, min. 100 °C	ENEC
X-Capacitor (C2)	Kemet Electronics (ARCOTRONICS)	R.49	Min. AC 310 V, Max.1.0 μF, min. 110 °C	ENEC
Alt.	Kemet Electronics (ARCOTRONICS)	R.46	Min. AC 275 V, Max.1.0 μF, min. 110 °C	ENEC
Alt.	Epcos	B3292#-...	Min. AC 275 V, Max.1.0 μF, min. 110 °C	VDE
Alt.	Epcos	B3292#CD series	Min. AC 305 V, Max.1.0 μF, min. 105 °C	ENEC
Alt.	ISKRA	KNB 1560	Min. AC 275 V, Max.1.0 μF, min. 110 °C	VDE
Alt.	ISKRA	KNB 1530	Min. AC 275 V, Max.1.0 μF, min. 100 °C	VDE
Alt.	Cowell Fashion (Pilkor)	PCX2 335M	Min. AC 275 V, Max.1.0 μF, min. 100 °C	ENEC
Alt.	Cowell Fashion (Pilkor)	PCX2 337	Min. AC 275 V, Max.1.0 μF, min. 100 °C	ENEC
Alt.	Ultra Tech Xiphi	HQX	Min. AC 275 V, Max.1.0 μF, min. 100 °C	VDE
Alt.	Joey	MPX	Min. AC 275 V, Max.1.0 μF, min. 105 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Xiamen Faratronic	MKP62	Min. AC 275 V, Max.1.0 μF, min. 110 °C	VDE
Alt.	Hua Jung	MKP	Min. AC 250 V, Max.1.0 μF, min. 110 °C	ENEC
Alt.	Carli Electronics	MPX	Min. AC 275 V, Max.1.0 μF, min. 100 °C	VDE
Alt.	Okaya	LE	Min. AC 250 V, Max.1.0 μF, min. 100 °C	ENEC
Y-Capacitor (C3, C4, C23, C24)	Murata Mfg. Co., Ltd.	KX	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max. 680 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	Murata Mfg. Co., Ltd.	KY, KH	Min. AC 250 V, Max. 680 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CS	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AC	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	KL	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	VISHAY	338.6	Min. AC 300 V, Max.680 pF, min. 105 °C	ENEC
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	VISHAY	440L...	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Y-Capacitor (C21, C22)	Murata Mfg. Co., Ltd.	KX	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	Murata Mfg. Co., Ltd.	KY, KH	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CS	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AC	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	KL	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	VISHAY	338.6	Min. AC 300 V, Max.100 pF, min. 105 °C	ENEC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	VISHAY	440L...	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Y-Capacitor (C30)	Murata Mfg. Co., Ltd.	KX	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Murata Mfg. Co., Ltd.	KY, KH	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CS	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AC	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	KL	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	VISHAY	338.6	Min. AC 300 V, Max.1 000 pF, min. 105 °C	ENEC
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	VISHAY	440L...	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Choke (LF1)	MEAN WELL	TR-1144	Min. 120 °C	Tested with appliance (Nemko)
-Triple insulated wire (LF1)	FURUKAWA ELECTRIC CO LTD	TEX-E, TEX-BS	130 °C	UL
Alt.	GREAT LEOFLONINDUSTRIAL CO LTD	TRW(B)	130 °C	UL
Alt.	TOTOKU ELECTRIC CO LTD	TIW-2X	130 °C	UL
Alt.	FURUKAWA ELECTRIC CO LTD	TEX-FS, TEX-FR	155 °C	UL
Alt.	GREAT LEOFLONINDUSTRIAL CO LTD	TRW(F)	155 °C	UL
Alt.	TOTOKU ELECTRIC CO LTD	TIW-3X	155 °C	UL
Choke (LF2)	MEAN WELL	TR-1189	Min. 120 °C	Tested with appliance (Nemko)
Choke (LF3)	MEAN WELL	TR-1145	Min. 120 °C	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
Choke (L2, L3)	MEAN WELL	TF-2865	Min. 120 °C	Tested with appliance (Nemko)
- Bobbin (L2, L3)	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 °C	UL
Alt.	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL
Alt.	Chang Chun Plastics Co., Ltd.	T375J, T375HF	V-0, Phenolic, 150 °C	UL
Alt.	Chang Chun Plastics Co., Ltd.	4115	V-0, PBT, 120 °C	UL
Alt.	Chang Chun Plastics Co., Ltd.	4130	V-0, PBT, 140 °C	UL
Alt.	Nan Ya	1403G3	V-0, PBT, 130 °C	UL
Opto-coupler (U3, U4)	COSMO Electronics Corporation	K1010	Int. dcr = 5.3 mm, Ext. dcr = 8.0 mm, Dti = 0.5 mm, thermal cycle test, 115 °C	VDE, UL
Alt.	Sharp Corporation Electronic	PC123	Ext. dcr = 8.0 mm, Dti = 0.4 mm, thermal cycle test, 110 °C	VDE, UL
Alt.	Toshiba Corporation Semiconductor	TLP781F, TLP781	Int. dcr = 5.0 mm, Ext. dcr = 6.5 mm, Dti = 0.6 mm, thermal cycle test, 115 °C	VDE, UL
Alt.	Lite-On Technology Corporation	LTV-817, LTV-817M	Int. dcr = 5.2 mm, Ext. dcr = 8.0 mm, Dti = 0.6 mm, thermal cycle test, 115 °C	VDE, UL
Transformer (T1, T2) for HLG-480H-24Y (Y: blank or B)	MEAN WELL Enterprises Co., Ltd.	TF-2858	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2858	Class B	Tested with appliance (Nemko)
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2858	Class B	Tested with appliance (Nemko)
Transformer (T1, T2) for HLG-480H-30Y (Y: blank or B)	MEAN WELL Enterprises Co., Ltd.	TF-2859	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2859	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
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2859	Class B	Tested with appliance (Nemko)
Transformer (T1, T2) for HLG-480H-36Y (Y: blank or B)	MEAN WELL Enterprises Co., Ltd.	TF-2860	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2860	Class B	Tested with appliance (Nemko)
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2860	Class B	Tested with appliance (Nemko)
Transformer (T1, T2) for HLG-480H-42Y (Y: blank or B)	MEAN WELL Enterprises Co., Ltd.	TF-2861	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2861	Class B	Tested with appliance (Nemko)
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2861	Class B	Tested with appliance (Nemko)
Transformer (T1, T2) for HLG-480H-48Y (Y: blank or B)	MEAN WELL Enterprises Co., Ltd.	TF-2862	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2862	Class B	Tested with appliance (Nemko)
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2862	Class B	Tested with appliance (Nemko)
Transformer (T1, T2) for HLG-480H-54Y (Y: blank or B)	MEAN WELL Enterprises Co., Ltd.	TF-2863	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2863	Class B	Tested with appliance (Nemko)
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2863	Class B	Tested with appliance (Nemko)
- Bobbin (T1, T2)	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 °C	UL
Alt.	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
- Bobbin cover (T1, T2)	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 °C	UL
Alt.	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL
-Magnet wire (T1, T2)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U (MW75- C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD- NYU(MW28-C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 75- C), UEW-U(MW 75-C), UEW/NY (MW28-C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	JUNG SHING WIRE CO LTD.	UEY-2@ (MW28-C), UEW-4@ (MW 75-C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130 (UEWNY/Q(A/X) -B,F)(MW 28- C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	TAI-I ELECTRIC WIRE & CABLE CO LTD.	UEWE (MW28-C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWN (MW28-C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	FENG CHING METAL CORP.	xUEW-NY (MW28-C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEWN/U (MW80-C), UEFN/U (MW80-C)	155 °C. min.	Tested with appliance (Nemko), UL
Alt.	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY (MW80-C)	155 °C. min.	Tested with appliance (Nemko), UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW (MW 79-C), UEW/NY (MW80-C)	155 °C. min.	Tested with appliance (Nemko), UL
Alt.	JUNG SHING WIRE CO LTD.	SFBY- 2@(a)(MW 80- C), SFFW- 2@(MW 79-C), SFBW-2@(MW 79-C)	155 °C. min.	Tested with appliance (Nemko), UL
Alt.	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130 (UEWNY/Q(A/X) -B,F)(MW 80- C)	155 °C. min.	Tested with appliance (Nemko), UL
Alt.	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYFU-H180 (UEW/Q A-H) (MW 82- C)	180 °C. min.	Tested with appliance (Nemko), UL
Alt.	TAI-I ELECTRIC WIRE & CABLE CO LTD.	UEWF-E (MW80-C)	155 °C. min.	Tested with appliance (Nemko), UL
Alt.	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWNF (MW80-C)	155 °C. min.	Tested with appliance (Nemko), UL
Alt.	FENG CHING METAL CORP.	xFSW-NY (MW80-C)	155 °C. min.	Tested with appliance (Nemko), UL
- Insulation sheet (T2 core)	FORMEX, DIV OF ILLINOIS TOOL WORKS INC,	FORMEX GK- (a)(b)(f1)	V-0, 115 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	FORMERLY FORMEX, DIV OF ILLINOIS TOOL WORKS INC	FORMEX N1J- (a)(b)(f2)	VTM-0, 105 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	FORMERLY SABIC INNOVATIVE PLASTICS US L L C	FR700(GG)	V-0, 130 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	SUN DELTA CORP	VS(f)	V-0, 130 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR117, DFR117ECOB	V-0, 80 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	SICHUAN LONGHUA FILM CO LTD	PP-(i)(j)	V-0, min. 100 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	SHENZHEN BORN SUN INDUSTRIAL CO LTD	BN-FP	V-0, 130 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	3M TAIWAN LTD	IS-250-a	V-0, 130 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	SABIC JAPAN L L C	FR700	V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	ITW ELECTRONICS COMPONENTS / PRODUCTS (SHANGHAI) CO LTD	Formex N1J-(a)(d)(e)(f2)	VTM-0, 105 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Transformer (T500)	MEAN WELL Enterprises Co., Ltd.	TF-2864	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2864	Class B	Tested with appliance (Nemko)
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2864	Class B	Tested with appliance (Nemko)
- Triple insulation wire (T500)	Furukawa	TEX-E	130 °C	UL
Alt.	Totoku	TIW-2	130 °C	UL
Alt.	Totoku	TIW-3	130 °C	UL
-Bobbin (T500)	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 °C	UL
Alt.	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
- Insulating tape (T1, T2, T500)	3M Company	1351-1 (a), 1351T-1 (a), 1351T-2 (a), 1351T-3 (a), 1350F-1 (b), 1350T-1 (b), 1318-1 (a), 1351-2 (C), 1350T-3 (b)	130 ℃	UL
Alt.	Bondtec	370S (b), 371F (a)	130 ℃	UL
Alt.	Symbio	35660Y (e), MY9YAF (h), 35660 (a)	130 ℃	UL
Alt.	Jingjiang Yahua	CT* (b)(g)	130 ℃	UL
Alt.	E I Dupont	410, 411, 414, 418	220 ℃	UL
Bridging- Capacitor (C31)	Murata Mfg. Co., Ltd.	KX	Min. AC 250 V, Max.470 pF, min. 125 ℃	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.470 pF, min. 125 ℃	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max.470 pF, min. 125 ℃	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max.470 pF, min. 125 ℃	VDE
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.470 pF, min. 125 ℃	VDE
Alt.	VISHAY	440L...	Min. AC 250 V, Max.470 pF, min. 125 ℃	VDE
Y-Capacitor (C168)	Murata Mfg. Co., Ltd	KX	Min. AC 250 V, Max.1 000 pF, min. 125 ℃	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max.1 000 pF, min. 125 ℃	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.1 000 pF, min. 125 ℃	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max.1 000 pF, min. 125 ℃	VDE
Alt.	Murata Mfg. Co., Ltd.	KY, KH	Min. AC 250 V, Max.1 000 pF, min. 125 ℃	VDE
Alt.	TDK-EPC Corporation	CS	Min. AC 250 V, Max.1 000 pF, min. 125 ℃	VDE
Alt.	Walsin Technology Corp.	AC	Min. AC 250 V, Max.1 000 pF, min. 125 ℃	VDE
Alt.	Welson Industrial Co., Ltd.	KL	Min. AC 250 V, Max.1 000 pF, min. 125 ℃	VDE
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.1 000 pF, min. 125 ℃	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	VISHAY	440L...	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	VISHAY	338 6	Min. AC 250 V, Max.1 000 pF, min. 125 °C	ENEC
Y-Capacitor (C169, C179)	Murata Mfg. Co., Ltd	KX	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	Murata Mfg. Co., Ltd.	KY, KH	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CS	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AC	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	KL	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	VISHAY	440L...	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	VISHAY	338 6	Min. AC 250 V, Max.10 000 pF, min. 125 °C	ENEC
Y-Capacitor (C569) for HLG- 480H-24B, HLG-480H-30B, HLG-480H- 36B,HLG-480H- 42B, HLG- 480H-48B, HLG-480H-54B	Murata Mfg. Co., Ltd	KX	Min. AC 250 V, Max.2 200 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max.2 200 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.2 200 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max.2 200 pF, min. 125 °C	VDE
Alt.	Murata Mfg. Co., Ltd.	KY, KH	Min. AC 250 V, Max.2 200 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CS	Min. AC 250 V, Max.2 200 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AC	Min. AC 250 V, Max.2 200 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	KL	Min. AC 250 V, Max.2 200 pF, min. 125 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.2 200 pF, min. 125 °C	VDE
Alt.	VISHAY	440L...	Min. AC 250 V, Max.2 200 pF, min. 125 °C	VDE
Alt.	VISHAY	338 6	Min. AC 250 V, Max.2 200 pF, min. 125 °C	ENEC
Y-Capacitor (C670) for HLG-480H-24B, HLG-480H-30B, HLG-480H-36B, HLG-480H-42B, HLG-480H-48B, HLG-480H-54B	Murata Mfg. Co., Ltd	KX	Min. AC 250 V, Max.220 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max.220 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.220 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max. 220 pF, min. 125 °C	VDE
Alt.	Murata Mfg. Co., Ltd.	KY, KH	Min. AC 250 V, Max.220 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CS	Min. AC 250 V, Max.220 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AC	Min. AC 250 V, Max.220 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	KL	Min. AC 250 V, Max.220 pF, min. 125 °C	VDE
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.220 pF, min. 125 °C	VDE
Alt.	VISHAY	440L...	Min. AC 250 V, Max.220 pF, min. 125 °C	VDE
Alt.	VISHAY	338 6	Min. AC 250 V, Max.220 pF, min. 125 °C	ENEC
Epoxy	DOW CORNING CORP	SYLGARD 160	V-0, 150 °C	Tested with appliance (Nemko), UL
Alt.	DOW CORNING (Shanghai) Co., Ltd.	TC-6011	V-0, 150 °C	Tested with appliance (Nemko), UL
Alt.	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B	V-0, 150 °C	Tested with appliance (Nemko), UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B H(f2)	V-0, 150 °C	Tested with appliance (Nemko), UL
Alt.	U-BOND MATERIAL TECHNOLOGY CO LTD	UB-5203A/B	V-0, 150 °C	Tested with appliance (Nemko), UL
Alt.	Guangzhou Huitian New Chemical Ltd.	5299	V-0, 150 °C	Tested with appliance (Nemko), UL
Alt.	Riseast Technology Corporation	SSTCP	V-0, 150 °C	UL
Insulation sheet (Bottom)	SUN DELTA CORP	VS(f)	VTM-0 or V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	FORMEX, DIV OF ILLINOIS TOOL WORKS INC,	FORMEX GK- (a)(b)(f1)	VTM-0 or V-0, 115 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	FORMERLY FORMEX, DIV OF ILLINOIS TOOL WORKS INC	FORMEX N1J- (a)(b)(f2)	VTM-0, 105 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	FORMERLY SABIC INNOVATIVE PLASTICS US L L C	FR700(GG)	V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR117, DFR117ECOB	VTM-0 or V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	SICHUAN LONGHUA FILM CO LTD	PP-(i)(j)	V-0, min. 105 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	SHENZHEN BORNSUN INDUSTRIAL CO LTD	BN-FP	V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	3M TAIWAN LTD	IS-250-a	V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	SABIC JAPAN L L C	FR700	V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	ITW ELECTRONICS COMPONENTS / PRODUCTS (SHANGHAI) CO LTD	Formex N1J-(a)(d)(e)(f2)	VTM-0, 105 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC-1860 series	VTM-0 or V-0, 130 °C, min. 0.2 mm thick	UL
Relay (RY1)	Tyco	OJ(E)-SH-112LMH	8 A, AC 250 V	TUV, UL
Alt.	Tyco	OJ(E)-SS-112LMH	8 A, AC 250 V	TUV, UL
Alt.	Tyco	OJ-SH-112LMH2	8A, AC 250V	VDE
Alt.	Tyco	OJ(E)-SS-112HMF,	10 A, AC 250 V	TUV, UL
Alt.	Tyco	OJ(E)-SH-112HMF,	10 A, AC 250 V	TUV, UL
Alt.	Song Chuan	835-1A-B-C	10 A, AC 277 V	VDE, TUV, UL
Alt.	XIAMEN HONGFA	HF32F series	Max. 8 A, AC 250 V	VDE, UL
Alt.	XIAMEN HONGFA	HF32F-G series	Max. 10A, AC 250 V	VDE, UL
Alt.	XIAMEN HONGFA	HF32FV-G Serie(s)	Max.10A, AC 250V	VDE

☐ 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 multiple listing or changing the items above, the certification revision shall be applied.

- 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-480H-24	Rated output (24 V, 480.0 W), without dimming and with 2 output channel
HLG-480H-24B	Rated output (24 V, 480.0 W) and with 2 output channel
HLG-480H-30	Rated output (30 V, 480.0 W), without dimming and with 2 output channel
HLG-480H-30B	Rated output (30 V, 480.0 W) and with 2 output channel
HLG-480H-36	Rated output (36 V, 478.8 W), without dimming and with 2 output channel
HLG-480H-36B	Rated output (36 V, 478.8 W) and with 2 output channel
HLG-480H-42	Rated output (42 V, 478.8 W), without dimming and with 2 output channel
HLG-480H-42B	Rated output (42 V, 478.8 W) and with 2 output channel
HLG-480H-48	Rated output (48 V, 480.0 W), without dimming
HLG-480H-48B	Rated output (48 V, 480.0 W)
HLG-480H-54	Without dimming
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Review Report No. : 17-052403-01-2 (2017.09.20.) 2. Product Description - Rated input : AC 100-240 V, 50/60 Hz, 550 W, 5.5-2.3 A - Rated output : DC 54 V, 480.6 W - tc: 90 °C, ta: 50 °C - Power factor : 0.9 - IP ratings : IP67 - Type of protection : Class I - Thermally protection : 110 °C - Constant voltage type, Independent, SELV controlgear - With dimming function (dimming PCB : B type) - Metal enclosure used - This product is filled with potting compound	
☐ 본 제품의 검토내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토담당자 / 연락처 : 인증사업본부 인증융합센터 박 종구 / (055)791-3301 ☐ If you have any question on product review, please contact the person below : Job holder: Certification Business Division, Certification Convergence Center, J.K.PARK/+82 55 791-3301	

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용

Contents of Certificate Revisions

1st Rev.) Addition of factory (17-063801-01-1 : 2017.10.20.)

- Factory name : MEAN WELL Enterprises Co., Ltd.

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

2nd Rev.) Addition of components and typing (19-062426-01-2 : 2019.09.27.)

- Components ;

Components	Manufacturer	Model
PCB	Guangdong Chaohua Technology Co., Ltd.	C-104
	Kunshan Guangqian Electronics Co., Ltd.	D, D1
	Jiangsu Difeida Electronics Co., Ltd.	DFD-2
	Hsu Tzu Electronic Co., Ltd.	DV0
	Suzhou Wutong Electronics Co., Ltd.	GS-2
	Guangzhou Taihua Multilayer Ciurcuit Board Co., Ltd.	ST-01
	Shanghai Wanzheng Circuit Board Co., Ltd.	SWZ-2
Input wire	Guangdong Rifeng Electrical Cable Co., Ltd	60245 IEC 57 (H05RN-F) 3×1.0 mm ²
	Guangdong Rifeng Electrical Cable Co., Ltd	60245 IEC 66 (H07RN-F) 3×1.0 mm ²
	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F 3G1.0)
	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 66 (H07RN-F) 2~5x1.0~2.5 mm ²
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G 0.75 mm ² -1.0 mm ²
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G 1.0 mm ² -4 mm ²
Epoxy	Riseast Technology Corporation	SSTCP

- Typing ;

Y-Capacitor (C569)	Y-Capacitor (C569) for HLG-480H-24B, HLG-480H-30B, HLG-480H-36B,HLG-480H-42B, HLG-480H-48B, HLG-480H-54B
Y-Capacitor (C670)	Y-Capacitor (C670) for HLG-480H-24B, HLG-480H-30B, HLG-480H-36B,HLG-480H-42B, HLG-480H-48B, HLG-480H-54B

3rd Rev.) Change of PCB layout construction (20-055600-02-1 : 2020.09.04.)

변경발급 내용
Contents of Certificate Revisions

4th Rev.) Change name, president and address of manufacturer (21-080534-56-1 : 2022.01.05.)

- 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

5th Rev.) Change of components and update of KC standards (23-051847-02-1 : 2023.09.04.)

- based on CB Certificate Ref. No.:NL-87972 (DEKRA Certification B.V) and CB report No., 4901398.50 (DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou Branch)
- add new component stated below:

Component (Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
PCB	Tai He PCB Company Limited	THS THD1	Min. V-1, min. 130 °C	UL
Alt.	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T ML-401	Min. V-0, min. 130 °C	UL
Alt.	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, min. 130 °C	UL
Input wires	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F 3G 0.75 mm ² -1.0 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC

- X Capacitor(C1) rating update: "Max. 0.82uF"
- X Capacitor(C2) rating update: "Max. 1.0uF"
- Y-Capacitor (C3, C4, C23, C24) rating update: "Max. 680pF"
- Y-Capacitor (C21, C22) rating update: "Max. 100pF"
- Y-Capacitor (C30) rating update: "Max. 1000pF"
- Bridging-Capacitor (C31) rating update: "Max. 470pF"
- Y-Capacitor (C168) rating update: "Max. 1000pF"
- Y-Capacitor (C169,C179) rating update: "Max. 10000pF"
- Y-Capacitor (C569) for HLG-480H-24B, HLG-480H-30B, HLG-480H-36B,
HLG-480H-42B, HLG-480H-48B, HLG-480H-54B rating update: "Max. 2200pF"
- Y-Capacitor (C670) for HLG-480H-24B, HLG-480H-30B, HLG-480H-36B,

변경발급 내용
Contents of Certificate Revisions

- HLG-480H-42B, HLG-480H-48B, HLG-480H-54B rating update: “Max. 220pF”
- Delete “HSIANG KUO” and “GUANGZHOU TAIHE” for the PCB
 - KC standards updated to “KC61347-1(2022-02), KC61347-2-13(2022-02)”

6th Rev.) Addition of components (24-030235-02-1 : 2024.06.18)

based on CB Certificate Ref. No.: NL-108244 (DEKRA Certification B.V) and CB report No., 4922070.50 (DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou Branch)

- add new component stated below:

Component (Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
Relay (RY1)	Tyco	OJ-SH-112LMH2	8A, AC 250V	VDE
Relay (RY1)	XIAMEN HONGFA	HF32FV-G Serie(s)	Max.10A, AC 250V	VDE
Insulation sheet (Bottom)	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC-1860 series	VTM-0 or V-0, 130 °C, min. 0.2 mm thick	UL

FP511-06

접 수 번 호 : 24-030235-01-1
(Receipt No.)



안 전 인 증 서

Safety Certificate

안 전 인 증 번 호 : SU11358-17002F
(Certificate No.)

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

주 소 : No.11 Jingu South Road, Huadu District, Guangzhou 510890,
(Address) Guangdong, China

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

기 본 모 델 명 : HLG-480H-24A
(Basic Model)

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

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 550 W (output : DC 24 V)
(Rating)

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

본 인증서는 제 조 국 명 : 중국
제 조 업 자 명 : MEAN WELL (Guangzhou) Electronics Co.,Ltd.
제조공장의 주소 : No.11 Jingu South Road, Huadu District, Guangzhou 510890
, Guangdong, China
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.

2024 년 06 월 18 일
Year month day

한국산업기술시험원장
KOREA TESTING LABORATORY



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

첨부서류

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

다수 공장의 현황
(The status of Multiple Factories)

No	현 황	
1	다수 공장의 명 (Name)	MEAN WELL Enterprises Co., Ltd.
	주소 (Address)	No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R. O.C.)
	제조국명 (Origin)	대만

□ 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	SHUNDE JUNDA	JD-D, JD-E	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	Tai He PCB Company Limited	THS THD1	Min. V-1, min. 130 °C	UL
Alt.	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T ML-401	Min. V-0, min. 130 °C	UL
Alt.	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, min. 130 °C	UL
Alt.	HONG SHIEN	03V-0, -D, -M	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	HSU TZU	4V0, DV2, MV1	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	JIIN-YU	JY-001, JY-003	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	Brite Plus	DGV0-3A	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	SHANGHAI WANZHENG	SWZ-1	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	GUANGDONG CHAOHUA	C-103	V-0, 130 °C	Tested with appliance (Nemko), UL
Alt.	Guangdong Chaohua Technology Co., Ltd.	C-104	V-0, 130 °C	UL
Alt.	Kunshan Guangqian Electronics Co., Ltd.	D, D1	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.	Jiangsu Difeida Electronics Co., Ltd.	DFD-2	V-0, 130 °C	UL
Alt.	Hsu Tzu Electronic Co., Ltd.	DV0	V-0, 130 °C	UL
Alt.	Suzhou Wutong Electronics Co., Ltd.	GS-2	V-0, 130 °C	UL
Alt.	Guangzhou Taihua Multilayer Circuit Board Co., Ltd.	ST-01	V-0, 130 °C	UL
Alt.	Shanghai Wanzheng Circuit Board Co., Ltd.	SWZ-2	V-0, 130 °C	UL
Input wires	Dong Guan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 57 (H05RN-F) 3×0.75/1.0/1.5/2.5 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Dong Guan Recheer Electric Wire & Cable Co., Ltd	60245 IEC 66 (H07RN-F) (2-5)×(1.0-2.5) mm ²	AC450/750 V, 3 x 1.0 mm ²	KC
Alt.	I-Sheng Electronics (Kunshan) Co., Ltd.	60245 IEC 66 (H07RN-F) (3/4/5)×(1/1.5/2.5)mm ²	AC450/750 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	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Lucky United Electric Wire & Cable Co., Ltd.	245 IEC 57 H05RN-F 2C-3CX0.75 mm ² -1 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Lucky United Electric Wire & Cable Co., Ltd.	H07RN-F 2-4X1.0 mm ² -2.5 mm ²	AC450/750 V, 3 x 1.0 mm ²	KC
Alt.	Standard Electric Wire & Cable Co., Ltd.	60245 IEC 57(H05RN-F) 3x1.0 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Standard Electric Wire & Cable Co., Ltd.	60245 IEC 66 H07RN-F) 3 x 1.0 mm ²	AC450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Ta Tun Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3Gx1.0 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Zheng Yu Electric Appliance Fittings Co., Ltd	60245 IEC 57(H05RN-F) 3Gx1.0 mm ²	AC300/500 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.	Zheng Yu Electric Appliance Fittings Co., Ltd	60245 IEC 66(H07RN-F) 3G 1.0 mm ²	AC450/750 V, 3 x 1.0 mm ²	KC
Alt.	Shanghai Yusheng Enterprise Development Co., Ltd	K60245 IEC 57 2C-5Cx0.75 mm ² -2.5 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Shanghai Yusheng Enterprise Development Co., Ltd	60245 IEC 66 (H07RN-F) 3x1.0,1.5,1.5,4 mm ²	AC450/750/ V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co., Ltd	60245 IEC 57 (H05RN-F) 3x1.0 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Zhenjiang Zhongjia Electric Co., Ltd	60245 IEC 66(H07RN-F) 3x1.0 mm ²	AC450/750 V, 3 x 1.0 mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co., Ltd	60245 IEC 57 (H05RN-F) 3 x 1.0 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Guangdong Rifeng Electrical Cable Co., Ltd	60245 IEC 66 (H07RN-F) 3 x 1.0 mm ²	AC450/750 V, 3 x 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F 3G1.0)	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 66 (H07RN-F) 2~5x1.0~2.5 mm ²	AC450/750 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G 0.75 mm ² -1.0 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Alt.	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G 1.0 mm ² -4 mm ²	AC450/750 V, 3 x 1.0 mm ²	KC
Alt.	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F 3G 0.75 mm ² -1.0 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC
Fuse (FS1)	Conquer	MST-series	T 8 A, AC 250 V or AC 300 V	TUV Rh
Varistor (ZNR1, ZNR2)	Thinking	TVR14511-M, TVR10511-M	AC 320 V, DC 410 V, Min. 125 °C	VDE, UL
Alt.	Thinking	TVR14471-M, TVR10471-M	AC 300 V, DC 385 V, Min. 125 °C	VDE, UL
Alt.	Thinking	TVR14561-M, TVR10561-M	AC 350 V, DC 450 V, Min. 125 °C	VDE, UL
X-Capacitor (C1)	Kemet Electronics (ARCOTRONICS)	R.49	Min. AC 310 V, Max. 0.82 µ F, min. 110 °C	ENEC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Cheng Tung	CTX	Min. AC 310 V, Max. 0.82 μ F, min. 105 $^{\circ}$ C	ENEC
Alt.	Kemet Electronics (ARCOTRONICS)	R.46	Min. AC 275 V, Max.0.82 μ F, min. 110 $^{\circ}$ C	ENEC
Alt.	Epcos	B3292#-...	Min. AC 275 V, Max.0.82 μ F, min. 110 $^{\circ}$ C	VDE
Alt.	Epcos	B3292#CD series	Min. AC 305 V, Max.0.82 μ F, min. 105 $^{\circ}$ C	ENEC
Alt.	ISKRA	KNB 1560	Min. AC 275 V, Max.0.82 μ F, min. 110 $^{\circ}$ C	VDE
Alt.	ISKRA	KNB 1530	Min. AC 275 V, Max.0.82 μ F, min. 100 $^{\circ}$ C	VDE
Alt.	Cowell Fashion (Pilkor)	PCX2 335M	Min. AC 275 V, Max.0.82 μ F, min. 100 $^{\circ}$ C	ENEC
Alt.	Cowell Fashion (Pilkor)	PCX2 337	Min. AC 275 V, Max.0.82 μ F, min. 100 $^{\circ}$ C	ENEC
Alt.	Ultra Tech Xiphi	HQX	Min. AC 275 V, Max.0.82 μ F, min. 100 $^{\circ}$ C	VDE
Alt.	Joey	MPX	Min. AC 275 V, Max.0.82 μ F, min. 105 $^{\circ}$ C	VDE
Alt.	Xiamen Faratronic	MKP62	Min. AC 275 V, Max.0.82 μ F, min. 110 $^{\circ}$ C	VDE
Alt.	Hua Jung	MKP	Min. AC 250 V, Max.0.82 μ F, min. 110 $^{\circ}$ C	ENEC
Alt.	Carli Electronics	MPX	Min. AC 275 V, Max.0.82 μ F, min. 100 $^{\circ}$ C	VDE
Alt.	Okaya	LE	Min. AC 250 V, Max.0.82 μ F, min. 100 $^{\circ}$ C	ENEC
X-Capacitor (C2)	Kemet Electronics (ARCOTRONICS)	R.49	Min. AC 310 V, Max.1.0 μ F, min. 110 $^{\circ}$ C	ENEC
Alt.	Kemet Electronics (ARCOTRONICS)	R.46	Min. AC 275 V, Max.1.0 μ F, min. 110 $^{\circ}$ C	ENEC
Alt.	Epcos	B3292#-...	Min. AC 275 V, Max.1.0 μ F, min. 110 $^{\circ}$ C	VDE
Alt.	Epcos	B3292#CD series	Min. AC 305 V, Max.1.0 μ F, min. 105 $^{\circ}$ C	ENEC
Alt.	ISKRA	KNB 1560	Min. AC 275 V, Max.1.0 μ F, min. 110 $^{\circ}$ C	VDE
Alt.	ISKRA	KNB 1530	Min. AC 275 V, Max.1.0 μ F, min. 100 $^{\circ}$ C	VDE
Alt.	Cowell Fashion (Pilkor)	PCX2 335M	Min. AC 275 V, Max.1.0 μ F, min. 100 $^{\circ}$ C	ENEC
Alt.	Cowell Fashion (Pilkor)	PCX2 337	Min. AC 275 V, Max.1.0 μ F, min. 100 $^{\circ}$ C	ENEC
Alt.	Ultra Tech Xiphi	HQX	Min. AC 275 V, Max.1.0 μ F, min. 100 $^{\circ}$ C	VDE
Alt.	Joey	MPX	Min. AC 275 V, Max.1.0 μ F, min. 105 $^{\circ}$ C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Xiamen Faratronic	MKP62	Min. AC 275 V, Max.1.0 μF, min. 110 °C	VDE
Alt.	Hua Jung	MKP	Min. AC 250 V, Max.1.0 μF, min. 110 °C	ENEC
Alt.	Carli Electronics	MPX	Min. AC 275 V, Max.1.0 μF, min. 100 °C	VDE
Alt.	Okaya	LE	Min. AC 250 V, Max.1.0 μF, min. 100 °C	ENEC
Y-Capacitor (C3, C4, C23, C24)	Murata Mfg. Co., Ltd.	KX	Min. AC 250 V, Max. 680 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	Murata Mfg. Co., Ltd.	KY, KH	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CS	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AC	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	KL	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	VISHAY	338.6	Min. AC 300 V, Max.680 pF, min. 105 °C	ENEC
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Alt.	VISHAY	440L...	Min. AC 250 V, Max.680 pF, min. 125 °C	VDE
Y-Capacitor (C21, C22)	Murata Mfg. Co., Ltd.	KX	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	Murata Mfg. Co., Ltd.	KY, KH	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CS	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AC	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	KL	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	VISHAY	338.6	Min. AC 300 V, Max.100 pF, min. 105 °C	ENEC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Alt.	VISHAY	440L...	Min. AC 250 V, Max.100 pF, min. 125 °C	VDE
Y-Capacitor (C30)	Murata Mfg. Co., Ltd.	KX	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Murata Mfg. Co., Ltd.	KY, KH	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CS	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AC	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	KL	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	VISHAY	338.6	Min. AC 300 V, Max.1 000 pF, min. 105 °C	ENEC
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	VISHAY	440L...	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Choke (LF1)	MEAN WELL	TR-1144	Min. 120 °C	Tested with appliance (Nemko)
-Triple insulated wire (LF1)	FURUKAWA ELECTRIC CO LTD	TEX-E, TEX-BS	130 °C	UL
Alt.	GREAT LEOFLONINDUSTRIAL CO LTD	TRW(B)	130 °C	UL
Alt.	TOTOKU ELECTRIC CO LTD	TIW-2X	130 °C	UL
Alt.	FURUKAWA ELECTRIC CO LTD	TEX-FS, TEX-FR	155 °C	UL
Alt.	GREAT LEOFLONINDUSTRIAL CO LTD	TRW(F)	155 °C	UL
Alt.	TOTOKU ELECTRIC CO LTD	TIW-3X	155 °C	UL
Choke (LF2)	MEAN WELL	TR-1189	Min. 120 °C	Tested with appliance (Nemko)
Choke (LF3)	MEAN WELL	TR-1145	Min. 120 °C	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
Choke (L2, L3)	MEAN WELL	TF-2865	Min. 120 °C	Tested with appliance (Nemko)
- Bobbin (L2, L3)	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 °C	UL
Alt.	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL
Alt.	Chang Chun Plastics Co., Ltd.	T375J, T375HF	V-0, Phenolic, 150 °C	UL
Alt.	Chang Chun Plastics Co., Ltd.	4115	V-0, PBT, 120 °C	UL
Alt.	Chang Chun Plastics Co., Ltd.	4130	V-0, PBT, 140 °C	UL
Alt.	Nan Ya	1403G3	V-0, PBT, 130 °C	UL
Opto-coupler (U3, U4)	COSMO Electronics Corporation	K1010	Int. dcr = 5.3 mm, Ext. dcr = 8.0 mm, Dti = 0.5 mm, thermal cycle test, 115 °C	VDE, UL
Alt.	Sharp Corporation Electronic	PC123	Ext. dcr = 8.0 mm, Dti = 0.4 mm, thermal cycle test, 110 °C	VDE, UL
Alt.	Toshiba Corporation Semiconductor	TLP781F, TLP781	Int. dcr = 5.0 mm, Ext. dcr = 6.5 mm, Dti = 0.6 mm, thermal cycle test, 115 °C	VDE, UL
Alt.	Lite-On Technology Corporation	LTV-817, LTV-817M	Int. dcr = 5.2 mm, Ext. dcr = 8.0 mm, Dti = 0.6 mm, thermal cycle test, 115 °C	VDE, UL
Transformer (T1, T2) for HLG-480H-24A	MEAN WELL Enterprises Co., Ltd.	TF-2858	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2858	Class B	Tested with appliance (Nemko)
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2858	Class B	Tested with appliance (Nemko)
Transformer (T1, T2) for HLG-480H-30A	MEAN WELL Enterprises Co., Ltd.	TF-2859	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2859	Class B	Tested with appliance (Nemko)
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2859	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-480H-36A	MEAN WELL Enterprises Co., Ltd.	TF-2860	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2860	Class B	Tested with appliance (Nemko)
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2860	Class B	Tested with appliance (Nemko)
Transformer (T1, T2) for HLG-480H-42A	MEAN WELL Enterprises Co., Ltd.	TF-2861	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2861	Class B	Tested with appliance (Nemko)
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2861	Class B	Tested with appliance (Nemko)
Transformer (T1, T2) for HLG-480H-48A	MEAN WELL Enterprises Co., Ltd.	TF-2862	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2862	Class B	Tested with appliance (Nemko)
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2862	Class B	Tested with appliance (Nemko)
Transformer (T1, T2) for HLG-480H-54A	MEAN WELL Enterprises Co., Ltd.	TF-2863	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2863	Class B	Tested with appliance (Nemko)
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2863	Class B	Tested with appliance (Nemko)
- Bobbin (T1, T2)	Sumitomo Bakelite Co., Ltd.	PM-9820, PM- 9630	V-0, Phenolic, 150 °C	UL
Alt.	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL
- Bobbin cover (T1, T2)	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 °C	UL
Alt.	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-Magnet wire (T1, T2)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U (MW75-C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD- NYU(MW28-C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 75-C), UEW-U(MW 75-C), UEW/NY (MW28-C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	JUNG SHING WIRE CO LTD.	UEY-2@ (MW28-C), UEW-4@ (MW 75-C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130 (UEWNY/Q(A/X) -B,F)(MW 28- C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	TAI-I ELECTRIC WIRE & CABLE CO LTD.	UEWE (MW28-C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWN (MW28-C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	FENG CHING METAL CORP.	xUEW-NY (MW28-C)	130 °C. min.	Tested with appliance (Nemko), UL
Alt.	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEWN/U (MW80-C), UEFN/U (MW80-C)	155 °C. min.	Tested with appliance (Nemko), UL
Alt.	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY (MW80-C)	155 °C. min.	Tested with appliance (Nemko), UL
Alt.	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW (MW 79-C), UEW/NY (MW80-C)	155 °C. min.	Tested with appliance (Nemko), UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	JUNG SHING WIRE CO LTD.	SFBY-2@(a)(MW 80-C), SFFW-2@(MW 79-C), SFBW-2@(MW 79-C)	155 °C. min.	Tested with appliance (Nemko), UL
Alt.	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130 (UEWNY/Q(A/X)-B,F)(MW 80-C)	155 °C. min.	Tested with appliance (Nemko), UL
Alt.	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYFU-H180 (UEW/Q A-H) (MW 82-C)	180 °C. min.	Tested with appliance (Nemko), UL
Alt.	TAI-I ELECTRIC WIRE & CABLE CO LTD.	UEWF-E (MW80-C)	155 °C. min.	Tested with appliance (Nemko), UL
Alt.	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWNF (MW80-C)	155 °C. min.	Tested with appliance (Nemko), UL
Alt.	FENG CHING METAL CORP.	xFSW-NY (MW80-C)	155 °C. min.	Tested with appliance (Nemko), UL
- Insulation sheet (T2 core)	FORMEX, DIV OF ILLINOIS TOOL WORKS INC,	FORMEX GK-(a)(b)(f1)	V-0, 115 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	FORMERLY FORMEX, DIV OF ILLINOIS TOOL WORKS INC	FORMEX N1J-(a)(b)(f2)	VTM-0, 105 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	FORMERLY SABIC INNOVATIVE PLASTICS US L L C	FR700(GG)	V-0, 130 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	SUN DELTA CORP	VS(f)	V-0, 130 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR117, DFR117ECOB	V-0, 80 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	SICHUAN LONGHUA FILM CO LTD	PP-(i)(j)	V-0, min. 100 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	SHENZHEN BORN SUN INDUSTRIAL CO LTD	BN-FP	V-0, 130 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	3M TAIWAN LTD	IS-250-a	V-0, 130 °C, min. 0.4 mm thick.	Tested with appliance (Nemko), UL
Alt.	SABIC JAPAN L L C	FR700	V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	ITW ELECTRONICS COMPONENTS / PRODUCTS (SHANGHAI) CO LTD	Formex N1J-(a)(d)(e)(f2)	VTM-0, 105 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Transformer (T500)	MEAN WELL Enterprises Co., Ltd.	TF-2864	Class B	Tested with appliance (Nemko)
Alt.	Ten Well Industrial Limited	TF-2864	Class B	Tested with appliance (Nemko)
Alt.	JET SIGNAL INDUSTRIES CO LTD	TF-2864	Class B	Tested with appliance (Nemko)
- Triple insulation wire (T500)	Furukawa	TEX-E	130 °C	UL
Alt.	Totoku	TIW-2	130 °C	UL
Alt.	Totoku	TIW-3	130 °C	UL
-Bobbin (T500)	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 °C	UL
Alt.	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
- Insulating tape (T1, T2, T500)	3M Company	1351-1 (a), 1351T-1 (a), 1351T-2 (a), 1351T-3 (a), 1350F-1 (b), 1350T-1 (b), 1318-1 (a), 1351-2 (C), 1350T-3 (b)	130 °C	UL
Alt.	Bondtec	370S (b), 371F (a)	130 °C	UL
Alt.	Symbio	35660Y (e), MY9YAF (h), 35660 (a)	130 °C	UL
Alt.	Jingjiang Yahua	CT* (b)(g)	130 °C	UL
Alt.	E I Dupont	410, 411, 414, 418	220 °C	UL
Bridging- Capacitor (C31)	Murata Mfg. Co., Ltd.	KX	Min. AC 250 V, Max.470 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.470 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max.470 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max.470 pF, min. 125 °C	VDE
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.470 pF, min. 125 °C	VDE
Alt.	VISHAY	440L...	Min. AC 250 V, Max.470 pF, min. 125 °C	VDE
Y-Capacitor (C168)	Murata Mfg. Co., Ltd	KX	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Murata Mfg. Co., Ltd.	KY, KH	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CS	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AC	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	KL	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	VISHAY	440L...	Min. AC 250 V, Max.1 000 pF, min. 125 °C	VDE
Alt.	VISHAY	338 6	Min. AC 250 V, Max.1 000 pF, min. 125 °C	ENEC
Y-Capacitor (C169, C179)	Murata Mfg. Co., Ltd	KX	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CD	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AH	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	WD	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	Murata Mfg. Co., Ltd.	KY, KH	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	TDK-EPC Corporation	CS	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	Walsin Technology Corp.	AC	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	Welson Industrial Co., Ltd.	KL	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	VISHAY Electronic GmbH	VY1, WKP	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	VISHAY	440L...	Min. AC 250 V, Max.10 000 pF, min. 125 °C	VDE
Alt.	VISHAY	338 6	Min. AC 250 V, Max.10 000 pF, min. 125 °C	ENEC
Epoxy	DOW CORNING CORP	SYLGARD 160	V-0, 150 °C	Tested with appliance (Nemko), UL
Alt.	DOW CORNING (Shanghai) Co., Ltd.	TC-6011	V-0, 150 °C	Tested with appliance (Nemko), UL
Alt.	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B	V-0, 150 °C	Tested with appliance (Nemko), UL
Alt.	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B H(f2)	V-0, 150 °C	Tested with appliance (Nemko), UL
Alt.	U-BOND MATERIAL TECHNOLOGY CO LTD	UB-5203A/B	V-0, 150 °C	Tested with appliance (Nemko), UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	Guangzhou Huitian New Chemical Ltd.	5299	V-0, 150 °C	Tested with appliance (Nemko), UL
Alt.	Riseast Technology Corporation	SSTCP	V-0, 150 °C	UL
Insulation sheet (Bottom)	SUN DELTA CORP	VS(f)	VTM-0 or V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	FORMEX, DIV OF ILLINOIS TOOL WORKS INC,	FORMEX GK- (a)(b)(f1)	VTM-0 or V-0, 115 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	FORMERLY FORMEX, DIV OF ILLINOIS TOOL WORKS INC	FORMEX N1J- (a)(b)(f2)	VTM-0, 105 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	FORMERLY SABIC INNOVATIVE PLASTICS US L L C	FR700(GG)	V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DFR117, DFR117ECOB	VTM-0 or V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	SICHUAN LONGHUA FILM CO LTD	PP-(i)(j)	V-0, min. 105 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	SHENZHEN BORNSUN INDUSTRIAL CO LTD	BN-FP	V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	3M TAIWAN LTD	IS-250-a	V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	SABIC JAPAN L L C	FR700	V-0, 130 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL
Alt.	ITW ELECTRONICS COMPONENTS / PRODUCTS (SHANGHAI) CO LTD	Formex N1J- (a)(d)(e)(f2)	VTM-0, 105 °C, min. 0.2 mm thick.	Tested with appliance (Nemko), UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Alt.	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC-1860 series	VTM-0 or V-0, 130 °C, min. 0.2 mm thick	UL
Relay (RY1)	Tyco	OJ(E)-SH- 112LMH	8 A, AC 250 V	TUV, UL
Alt.	Tyco	OJ(E)-SS- 112LMH	8 A, AC 250 V	TUV, UL
Alt.	Tyco	OJ-SH- 112LMH2	8 A, 250 V	VDE
Alt.	Tyco	OJ(E)-SS- 112HMF,	10 A, AC 250 V	TUV, UL
Alt.	Tyco	OJ(E)-SH- 112HMF,	10 A, AC 250 V	TUV, UL
Alt.	Song Chuan	835-1A-B-C	10 A, AC 277 V	VDE, TUV, UL
Alt.	XIAMEN HONGFA	HF32F series	Max. 8 A, AC 250 V	VDE, UL
Alt.	XIAMEN HONGFA	HF32F-G series	Max. 10A, AC 250 V	VDE, UL
Alt.	XIAMEN HONGFA	HF32FV-G Serie(s)	Max. 10 A, AC 250 V	VDE

☐ 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-480H-30A	Rated output voltage (30 V)
HLG-480H-36A	Rated output (36 V, 478.8 W)
HLG-480H-42A	Rated output (42 V, 478.8 W)
HLG-480H-48A	Rated output voltage (48 V) and with 1 output channel
HLG-480H-54A	Rated output (54 V, 480.6 W) and with 1 output channel
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Review Report No. : 17-056410-01-2 (2017.09.29) 2. Product Description - Rated input : AC 100-240 V, 50/60 Hz, 550 W, 5.5-2.3 A - Rated output : DC 24 V, 480 W (with 2 output channel) - tc: 90 °C, ta: 50 °C - Power factor : 0.9 - IP ratings : IP65 - Type of protection : Class I - Thermally protection : 110 °C - Constant voltage type, Independent, SELV controlgear - Metal enclosure used - This product is filled with potting compound	
□ 본 제품의 검토내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토담당자 / 연락처 : 인증사업본부 인증융합센터 박 종구 / (055)791-3301 □ If you have any question on product review, please contact the person below : Job holder: Certification Business Division, Certification Convergence Center, J.K.PARK/+82 55 791-3301	

FP511-05

□ 첨부 3 : 안전인증의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions		
1 st Rev.) Addition of factory (17-063801-02-1 : 2017.10.20.)		
- Factory name : MEAN WELL Enterprises Co., Ltd.		
Address : No.28, Wuquan 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C.)		
2 nd Rev.) Deletion and Addition of components (19-062426-02-2 : 2019.09.27.)		
- Deletion ; Y-capacitor (C569)		
- Addition ;		
Components	Manufacturer	Model
PCB	Guangdong Chao Hua Technology Co., Ltd.	C-104
	Kunshan Guangqian Electronics Co., Ltd.	D, D1
	Jiangsu Difeida Electronics Co., Ltd.	DFD-2
	Hsu Tzu Electronic Co., Ltd.	DV0
	Suzhou Wutong Electronics Co., Ltd.	GS-2
	Guangzhou Taihua Multilayer Circuit Board Co., Ltd.	ST-01
	Shanghai Wanzheng Circuit Board Co., Ltd.	SWZ-2
Input wire	Guangdong Rifeng Electrical Cable Co., Ltd	60245 IEC 57 (H05RN-F) 3×1.0 mm ²
	Guangdong Rifeng Electrical Cable Co., Ltd	60245 IEC 66 (H07RN-F) 3×1.0 mm ²
	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 57 (H05RN-F) 3G1.0)
	Huizhou Mainland Electric Wire & Cable Co., Ltd.	60245 IEC 66 (H07RN-F) 2~5×1.0~2.5 mm ²
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G 0.75 mm ² -1.0 mm ²
	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G 1.0 mm ² -4 mm ²
Epoxy	Riseast Technology Corporation	SSTCP
3 rd Rev.) Change of PCB layout construction (20-055600-01-1 : 2020.09.04.)		

변경발급 내용
Contents of Certificate Revisions

4th Rev.) Change name, president and address of manufacturer (21-080534-55-1 : 2022.01.05.)

- 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

5th Rev.) Change of components and update of KC standards (23-051847-01-1 : 2023.09.04.)
based on CB Certificate Ref. No.:NL-87972 (DEKRA Certification B.V) and CB report No.,
4901398.50 (DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou Branch)
- add new component stated below:

Component (Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
PCB	Tai He PCB Company Limited	THS THD1	Min. V-1, min. 130 °C	UL
Alt.	KIN YIP TECHNOLOGY ELECTRONICS (HUIZHOU) CO LTD	DS-206T ML-401	Min. V-0, min. 130 °C	UL
Alt.	CHANGZHOU AOHONG ELECTRONICS CO LTD	AOH-2, AOH-8	Min. V-0, min. 130 °C	UL
Input wires	DONGGUAN TAWANG ELECTRONICS CO LTD	60245 IEC 57 H05RN-F 3G 0.75 mm ² -1.0 mm ²	AC300/500 V, 3 x 1.0 mm ²	KC

- X Capacitor(C1) rating update: "Max. 0.82uF"
- X Capacitor(C2) rating update: "Max. 1.0uF"
- Y-Capacitor (C3, C4, C23, C24) rating update: "Max. 680pF"
- Y-Capacitor (C21, C22) rating update: "Max. 100pF"
- Y-Capacitor (C30) rating update: "Max. 1000pF"
- Bridging-Capacitor (C31) rating update: "Max. 470pF"
- Y-Capacitor (C168) rating update: "Max. 1000pF"
- Y-Capacitor (C169,C179) rating update: "Max. 10000pF"
- Delete "HSIANG KUO" and "GUANGZHOU TAIHE" for the PCB
- KC standards updated to "KC61347-1(2022-02), KC61347-2-13(2022-02)"

6th Rev.) Addition of components (24-030235-01-1 : 2024.06.18.)

based on CB Certificate Ref. No.: NL-108244 (DEKRA Certification B.V) and CB report No.,
4922070.50 (DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou Branch)

변경발급 내용
Contents of Certificate Revisions

- add new components stated below:

Component (Part no.)	Manufacturer(Brand)	Model	Rating	Tested by
Relay (RY1)	Tyco	OJ-SH-112LMH2	8A,250V	VDE
Relay (RY1)	XIAMEN HONGFA	HF32FV-G Serie(s)	Max.10A, AC 250V	VDE
Insulation sheet (Bottom)	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC-1860 series	VTM-0 or V-0, 130 °C, min. 0.2 mm thick	UL

FP511-06