

접수 번호 : 23-055470-01-1  
(Receipt No.)



# 안전인증서

## Safety Certificate

안전인증번호 : SU11358-18013C  
(Certificate No.)

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

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

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

기본모델명 : ELGC-300-H-DA  
(Basic Model)

파생모델명 : See the attachment 2  
(Series Model)

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 328 W  
(Rating) (output : Max. DC 62 V, 5 600 mA)

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

본 인증서는 제조국명 : 중국  
제조업자명 : MEAN WELL (Guangzhou) Electronics Co.,Ltd.  
제조공장의 주소 : No.11 Jingu South Road, Huadu District, Guangzhou 510890  
, Guangdong, China  
의 제품에만 해당함

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

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

2023 년 09 월 04 일  
Year month day

한국산업기술시험원  
KOREA TESTING LABORATORY



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

첨부서류

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

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

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Input cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75mm <sup>2</sup> -1.0mm <sup>2</sup>	AC 300 / 500 V, 3G x 1,0 mm <sup>2</sup>	KC
(Alternative)	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0mm <sup>2</sup> -4mm <sup>2</sup>	AC450 / 750 V, 3G x 1,0 mm <sup>2</sup>	KC
(Alternative)	DONGGUAN TAWANG ELECTRONICS CO LTD	K60245 IEC 57 H05RN-F 3G0.75mm <sup>2</sup> -1.0mm <sup>2</sup>	AC 300 / 500 V, 3G x 1.0 mm <sup>2</sup>	KC
Fuse (FS1)	Conquer	MST	T6,3 A, 250 V or AC 300 V	VDE / TUV
(Alternative)	Walter	2010	T6,3 A, 250 V or AC 300 V	VDE / TUV
(Alternative)	Littel	369	T6,3 A, 250 V or AC 300 V	VDE
Varistor (ZR1,ZR2)	Centra Science	CNR10D471K	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Centra Science	CNR14D471K	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Centra Science	CNR10D511K	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Centra Science	CNR14D511K	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Centra Science	CNR10D561K	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Centra Science	CNR14D561K	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Joyin	14S471K	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Joyin	14N471K	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Joyin	10S471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S511K	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Joyin	14N511K	AC 320 V, DC 410 V, 85 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Joyin	10S511K	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Joyin	14S561K	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Joyin	14N561K	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Joyin	10S561K	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR10561	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR14561	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR10561-D	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR14561-D	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR10561-V,	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR14561-V	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR10511	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Thinking	TVR14511	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Thinking	TVR14511-V	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Thinking	TVR10511-V	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Thinking	TVR14511-D	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Thinking	TVR10511-D	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Thinking	TVR10471	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Thinking	TVR14471	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Thinking	TVR10471-V	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Thinking	TVR14471-V	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Thinking	TVR10471-D	AC 300 V, DC 385 V, 85 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Thinking	TVR14471-D	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Thinking	TVR10561-M	AC 350 V, DC 450 V, 125 °C	VDE
(Alternative)	Thinking	TVR14561-M	AC 350 V, DC 450 V, 125 °C	VDE
(Alternative)	Thinking	TVR14511-M	AC 320 V, DC 410 V, 125 °C	VDE
(Alternative)	Thinking	TVR10511-M	AC 320 V, DC 410 V, 125 °C	VDE
(Alternative)	Thinking	TVR10471-M	AC 300 V, DC 385 V, 125 °C	VDE
(Alternative)	Thinking	TVR14471-M	AC 300 V, DC 385 V, 125 °C	VDE
(Alternative)	Huiwan	V-511K- 10D(E)H,V-511K- 14D(E)H	320Vac,410Vdc, Min. 125°C	VDE
X Capacitors (C1, C2)	Kemet (Arcotronics)	R.46	<b>Min. AC 250 V</b> , Min. 100 °C, <b>Max. 1uF</b>	ENEC
(Alternative)	Epcos	B3292#	<b>Min. AC 250 V</b> , Min. 100 °C, <b>Max. 1uF</b>	VDE
(Alternative)	Liow Gu	GS-L	<b>Min. AC 250 V</b> , Min. 100 °C, <b>Max. 1uF</b>	VDE
(Alternative)	Ultra Tech	HQX	<b>Min. AC 250 V</b> , Min. 100 °C, <b>Max. 1uF</b>	VDE
(Alternative)	HUA JUNG	MKP	<b>Min. AC 250 V</b> , Min. 100 °C, <b>Max. 1uF</b>	ENEC
(Alternative)	Carli Electronics	MPX	<b>Min. AC 250 V</b> , Min. 100 °C, <b>Max. 1uF</b>	VDE
(Alternative)	Joey	MPX	<b>Min. AC 250 V</b> , Min. 100 °C, <b>Max. 1uF</b>	VDE
(Alternative)	NISSEI	MP1	<b>Min. AC 250 V</b> , Min. 100 °C, <b>Max. 1uF</b>	VDE
Y-capacitor (C31)	Murata	KX	Min. AC 250 V, Max. 2200 pF, Min. 105 °C, Y1	VDE
(Alternative)	Walsin	AH	Min. AC 250 V, Max. 2200 pF, Min. 105 °C, Y1	VDE
(Alternative)	Walsin	AS	Min. AC 250 V, Max. 2200 pF, Min. 125 °C, Y1	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	TDK	CD	Min. AC 250 V, Max. 2200 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	VY1	Min. AC 250 V, Max. 2200 pF, Min. 105 °C, Y1	VDE
(Alternative)	Huiwan	AR	Min. AC 250 V, Max. 2200 pF, Min. 125°C, Y1	VDE
(Alternative)	Wanming	HJ	Min. AC 250 V, Max. 2200 pF, Min. 125°C, Y1	VDE
Y-capacitor (C3, C4, C23, C30)	Murata	KX	Min. AC 250 V, Min. 105 °C, Y1, Max. 1500 pF	VDE
(Alternative)	Murata	KH, KY	<b>Min. AC 250 V</b> , Min. 105 °C, Y2, <b>Max. 1500 pF</b>	VDE
(Alternative)	Walsin	AH, AS	<b>Min. AC 250 V</b> , Min. 105 °C, Y1, <b>Max. 1500 pF</b>	VDE
(Alternative)	Walsin	AC	<b>Min. AC 250 V</b> , Min. 105 °C, Y2, <b>Max. 1500 pF</b>	VDE
(Alternative)	Walsin	AS	Min. AC 250 V, Min. 105 °C, Y1, Max. 1500 pF	VDE
(Alternative)	TDK	CD	Min. AC 250 V, Min. 105 °C, Y1, Max. 1500 pF	VDE
(Alternative)	TDK	CS	<b>Min. AC 250 V</b> , Min. 105 °C, Y2, <b>Max. 1500 pF</b>	VDE
(Alternative)	VISHAY	VY1	<b>Min. AC 250 V</b> , Min. 105 °C, Y1, <b>Max. 1500 pF</b>	VDE
(Alternative)	Huiwan	AR	<b>Min. AC 250 V</b> , Min. 125 °C, <b>Max. 1500 pF</b> , Y1	VDE
(Alternative)	Huiwan	AB	<b>Min. AC 250 V</b> , Min. 125 °C, <b>Max. 1500 pF</b> , Y2	VDE
(Alternative)	Wanming	HM	<b>Min. AC 250 V</b> , Min. 125 °C, Y2, <b>Max. 1500 pF</b>	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Wanming	HJ	Min. AC 250 V, Min. 125 °C, Y1, Max. 1500 pF	VDE
PCB	Junda	JD-D, JD-E	V-1, 105 °C	Tested With appliance /UL
(Alternative)	Junda	JD-D1	Min.V-1, min130°C	UL
(Alternative)	HONG SHIEN	03V-0, -D, -M	V-1, 105 °C	UL
(Alternative)	HSU TZU	4V0, DV2, MV1	V-1, 105 °C	UL
(Alternative)	JIIN-YU	JY-001, JY-003	V-1, 105 °C	UL
(Alternative)	Tai He	THS, THD	Min. V-1, Min. 130 °C	UL
(Alternative)	KIN YIP	DS-206T, ML-401	Min. V-0, Min. 130 °C	UL
(Alternative)	SHANGHAI WANZHENG	SWZ-1	V-1, 105 °C	UL
(Alternative)	GUANGDONG CHAOHUA	C-103, C-104	V-1, 105 °C	UL
(Alternative)	GUANGDONG CHAOHUA	C-109	Min.V-1, min130°C	UL
(Alternative)	JIANGSU DIFEIDA	DFD-2	Min.V-0, min130°C	UL
(Alternative)	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min.V-0, min130°C	UL
(Alternative)	CHANGZHOU AOHONG	AOH-2, AOH-8	Min.V-0, min130°C	UL
(Alternative)	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min.V-0, min130°C	UL
Line Filter Choke(LF1)	MEAN WELL	TR-1010A	130 °C	Tested with appliance
Line Filter Choke(LF2)	MEAN WELL	TR-6207A	130 °C	Tested with appliance
Line Filter Choke(L1)	MEAN WELL	TF-6918	130 °C	Tested with appliance
Line Filter Choke(L2)	MEAN WELL	TR-6211	130 °C	Tested with appliance
-Winding of LF1, LF2 and L1, L2	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO L TD.	UEW/U(MW 75-C), UEWN/U(MW 28-C), UEWS/U(MW75-C)	130 °C	Tested with a ppliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD-NYU(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRIC CO LTD.	UEW(MW 75-C), UEW-U(MW 75-C), UEW/NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	UEY-2@(MW 28-C), UEW-4@(MW 75-C)	130 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	TAI-I ELECTRIC WIRE & CABLE CO LTD.	UEWE(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWN(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP.	xUEW-NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEWN/U(MW 80-C), UEFN/U(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRIC CO LTD.	UEW(MW 79-C), UEW/NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	SFBY-2@(a)(MW 80-C), SFFW-2@(MW 79-C), SFBW-2@(MW 79-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 80-C)	155 ℃	Tested with appliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYFU-H180(UEW/QA-H) (MW 82-C)	180 °C	Tested with appliance, UL
-(Alternative)	TAI- I ELECTRIC WIRE & CABLE CO LTD.	UEWF-E(MW 80-C)	155 °C	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWNF(MW 80-C)	155 °C	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP	xFSW-NY(MW 80-C)	155 °C	Tested with appliance, UL
Transformer (T1) for ELGC-300-H models	MEAN WELL Enterprises Co., Ltd.	TF-6914	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6914	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6914	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6914	Class B	Tested with appliance
Transformer (T1) for ELGC-300-M models	MEAN WELL Enterprises Co., Ltd.	TF-6915	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6915	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6915	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6915	Class B	Tested with appliance
Transformer (T500)	MEAN WELL Enterprises Co., Ltd.	TF-6919	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6919	Class B	Tested with appliance
- Bobbin of T1, T500	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 °C	Tested with appliance, UL
-(Alternative)	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL



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-(Alternative)	SUMITOMO BAKELITE CO LTD.	PM-9750	155 ℃	UL
-(Alternative)	SUMITOMO BAKELITE CO LTD.	PM-9823	155 ℃	UL
-(Alternative)	NAN YA	1403G3, 1403G6	V-0, 130 ℃	UL
-(Alternative)	CHANG CHUN PLASTICS CO LTD	T375J,T375HF	V-0, 150 ℃	UL
-(Alternative)	SUMITOMO CHEMICAL CO LTD	E4008	130 ℃	UL
-Triple insulation wire of T1, T500	Furukawa	TEX-E, TEX-ELZ	130 ℃	Tested with appliance, UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-2X, TIW-2SX	130 ℃	UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-3X	155 ℃	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(B)- M	130 ℃	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(F)-M	155 ℃	UL
-Winding of transformer (T1, T500)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U@ (MW 75-C)	130 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD-NYU(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRIC CO LTD.	UEW(MW75-C), UEW-U(MW 75-C), UEW/NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	UEY-2@(MW 28-C), UEW-4@(MW 75-C)	130 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	TAI- I ELECTRIC WIRE & CABLE CO LTD.	UEWE(MW 28-C)	130 ℃	Tested with appliance, UL

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-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWN(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP.	xUEW-NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEWN/U(MW 80-C), UEFN/U(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 79-C), UEW/NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	SFBY-2@(a) (MW 80-C), SFFW-2@ (MW 79-C), SFBW-2@ (MW 79-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYFU-H180(UEW/QA-H)(MW 82-C)	180 ℃	Tested with appliance, UL
-(Alternative)	TAI- I ELECTRIC WIRE & CABLE CO LTD.	UEWF-E(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWNF(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP	xFSW-NY(MW 80-C)	155 ℃	Tested with appliance, UL
-Teflon tube	Great Holding Industrial Co., Ltd.	TFL,TFT,TFS	200 ℃	Tested with appliance, UL
-(Alternative)	ZEUS INDUSTRIAL PRODUCTS INC.	TFE-TW-300, TFE-SW-600	200 ℃	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	CHANGYUAN ELECTRONICS GROUP CO LTD	CB-HFT, CB-HFT(XY), CYG-MT, CB-TT-L, CB-TT-S, CB-TT-T, CYG-ZHP	200 °C	UL
-Insulation tape of T1, T500	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1351-1(a), 1351-2(c), 1351T-1(a), 1351T-2(a), 1351T-3(a)	130 °C	Tested with appliance, UL
-(Alternative)	BONDTEC PACIFIC CO LTD.	No 370S(b), No371F(a)	130 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1350F-1(b), 1350T-1(b), 1350T-3(b), 1318-1	130 °C	UL
-(Alternative)	Symbio Inc.	MY9YAF(h), 35660Y(e), 35660(a), 35661(c),	130 °C	UL
-(Alternative)	JingjiangYahua	CT*(b)(g).PZ, WF	130 °C	UL
-(Alternative)	E I DUPONT DE NEMOURS & CO INC	Nomex®410,411, 414, 418	220 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	92	180 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1318-1(a), 1350F-1(b), 1350T-1(b), 1350T-2(b), 1350T-3(b), 1351T-1(a), 1351T-2(a), 44(a), 56(a), 44, 44D, 44D-A, 44- T, 44T-A	130 °C	UL
Photo coupler (U4, U5)	Lite-On	LTV-1006	Dti= 0,4 mm, Int. dcr.= 6,0mm, Ext. dcr.≥ 8,0mm, min. 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
(Alternative)	Lite-On	LTV-1008	Dti= 0,4 mm, Int. dcr.= 6,0mm, Ext. dcr. ≥ 8,0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-817	Dti= 0,4 mm, Int. cr= 5,2 mm, Ext.cr ≥ 8 mm, 115 °C	VDE
(Alternative)	Lite-On	LTV-817M	Dti= 0,4 mm, Int. cr= 5,2 mm, Ext.cr ≥ 8 mm, 115 °C	VDE
(Alternative)	Sharp	PC123	Dti= 0,4 mm, Int. cr= 5,2 mm, Ext. cr= 8,0 mm, 110 °C	VDE
(Alternative)	Cosmo	K1010	Dti= 0,5 mm, Int. cr= 5,3 mm,   Ext. cr = 8,0 mm, 115 °C	VDE
(Alternative)	Toshiba Corporation	TLP781F	Dti = 0,6 mm, Int. dcr.= 6,0 mm, Ext. dcr. ≥ 8,0 mm, 115 °C	VDE
(Alternative)	Everlight	EL817M	Dti = 0,4 mm, Int. dcr.= 6,0 mm, Ext. dcr. ≥ 8,0mm, min. 100 °C	VDE
(Alternative)	Lite-on	LTV-817S	Dti=0.4mm,Int.cr=5.2mm, Ext.cr. ≥ 8.0 mm, 115°C	VDE
(Alternative)	VISHAY	TCLT1008	Dti=0.43mm Ext.dcr. ≥ 8.0 mm, 110°C	VDE
(Alternative)	CT-Micro	CT817	Dti=0.4mm,Int.cr=5.3mm, Ext.cr. ≥ 8.0 mm, Min. 100°C	VDE
(Alternative)	Toshiba	TLP2701	Dti=0.4mm Ext.cr. ≥ 8.0 mm, 125°C	VDE
Potting compound	Guangzhou Huitian New Chemical Ltd.	5299,5297	V-0, 150 °C	Tested with appliance /UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B H	V-0, 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
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B	V-0, 150 °C	UL
(Alternative)	DOW CORNING CORP	SYLGARD 160	V-0, 150 °C	UL
(Alternative)	U-Bond	UB-5203A/ UB- 5203B	V-0, 150 °C	UL
(Alternative)	LINKTECH	EncapSil 1400	V-0,150°C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1318-1(a), 1350F-1(b), 1350T-1(b), 1350T-2(b), 1350T-3(b), 1351T-1(a), 1351T-2(a), 44(a), 56(a), 44, 44D, 44D-A, 44- T, 44T-A	130 °C	UL
Photo coupler (U4, U5)	Lite-On	LTV-1006	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-1008	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-817	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Lite-On	LTV-817M	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Sharp	PC123	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext. cr= 8.0 mm, 110 °C	VDE
(Alternative)	Cosmo	K1010	Dti= 0.5 mm, Int. cr= 5.3 mm,   Ext. cr = 8.0 mm, 115 °C	VDE
(Alternative)	Toshiba Corporation	TLP781F	Dti = 0.6 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0 mm, 115 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Everlight	EL817M	Dti = 0.4 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-817S	Dti=0.4 mm, Int.cr=5.2 mm, Ext.cr.≥ 8.0 mm, 115 °C	VDE
(Alternative)	VISHAY	TCLT1008	Dti=0.43 mm, Ext.dcr.≥ 8.0 mm, 110 °C	VDE
(Alternative)	CT-Micro	CT817	Dti=0.4 mm, Int.cr=5.3 mm, Ext.cr.≥ 8.0 mm, Min. 100 °C	VDE
(Alternative)	Toshiba	TLP2701	Dti=0.4 mm, Ext.cr.≥ 8.0 mm, 125 °C	VDE
Potting compound	Guangzhou Huitian New Chemical Ltd.	5299,5297	V-0, 150 °C	Tested with appliance, UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B H	V-0, 150 °C	UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B	V-0, 150 °C	UL
(Alternative)	DOW CORNING CORP	<u>SYLGARD 160</u>	V-0, 150 °C	UL
(Alternative)	DOW CORNING CORP	TC-6011	V-0, 150 °C	UL
(Alternative)	U-Bond	UB-5203A/ UB-5203B	V-0, 150 °C	UL
(Alternative)	Riseast	SSTCP	V-0, 150 °C	UL
(Alternative)	LINKTECH	EncapSil 1400	V-0, 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)
ELGC-300-H	Without dimming wire and without dimming PCB
ELGC-300-H-A	Without dimming wire, without dimming PCB and with Rear cover(Plastic cap)
ELGC-300-H-B	Dimming PCB (B type)
ELGC-300-H-AB	Dimming PCB (B type) and with Rear cover(Plastic cap)
ELGC-300-H-D2	Dimming PCB (D type)
ELGC-300-H-AD2	Dimming PCB (D type) and with Rear cover(Plastic cap)
ELGC-300-H-ADA	With Rear cover(Plastic cap)
ELGC-300-M	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Without dimming wire and without dimming PCB
ELGC-300-M-A	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Without dimming wire, without dimming PCB and with Rear cover(Plastic cap)
ELGC-300-M-B	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V) and Dimming PCB (B type)
ELGC-300-M-AB	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Dimming PCB (B type) and with Rear cover(Plastic cap)
ELGC-300-M-DA	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V)
ELGC-300-M-D2	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V) and Dimming PCB (D type)
ELGC-300-M-AD2	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Dimming PCB (D type) and with Rear cover(Plastic cap)
ELGC-300-M-ADA	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V) and With Rear cover(Plastic cap)



제품특기사항 및 시험조건  
Remarks & Test conditions

1. Review Ref. No.: 18-075021-04-2 (2019.04.26.)

2. Product Description:

- Rated input : AC 100-240 V, 50/60 Hz, 328 W, 3 A
- Rated output current ( $I_{rated}$ ) : 5 600 mA
- Rated output power ( $P_{rated}$ ) : 301.6 W
- Maximum output voltage(U-OUT) : DC 62 V
- tc: 85 °C, ta : 40 °C
- Power factor : 0.95
- IP ratings : IP67
- Type of protection : Class I
- Thermally protection : 110 °C
- Constant current type, Independent, SELV controlgear
- With dimming wire, with dimming PCB(DA type) and without Rear cover(Plastic cap)
- This product is filled with potting compound
- Metal enclosure used

□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다.

검토 담당자 / 연락처 : 고객지원본부 인증융합평가센터 신 중욱 / 02-860-1473

□ *If you have any question on product review, please contact the person below :*

*Job holder: Customer Support Division, Certification Convergence Evaluation Center, J.U.Shin / +82 2 860-1473*

FP511-05

□ 첨부 3 : 안전인증의 변경 현황  
Revisions Status

변경발급 내용 Contents of Certificate Revisions		
1 <sup>st</sup> Rev.) Change of PCB layout and Addition of components (21-058991-02-1 : 2021.10.15.)		
- PCB layout: Added copper foil around the component holes for fixing components better.		
- Addition ;		
Components	Manufacturer	Model
Varistor (ZR1, ZR2)	Huiwan	V-511K-10D(E)H, V-511K-14D(E)H
X-capacitor (C1, C2)	NISSEI	MP1
Y-capacitor (C31)	Huiwan	AR
	Wanming	HJ
	Walsin	AS
Y-capacitor (C3, C4, C23, C30)	Huiwan	AR
	Huiwan	AB
	Wanming	HM
	Wanming	HJ
PCB	Junda	JD-D1
	GUANGDONG CHAOHUA	C-109
	LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A
	JIANGSU DIFEIDA	DFD-2
	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S
	RONG HUI	RH-3
	CHANGZHOU AOHONG	AOH-2, AOH-8
	CHANGZHOU HAIHONG	CCE-V0, HDCEM1
Photo coupler (U4,U5)	Lite-on	LTV-817S
	VISHAY	TCLT1008
	CT-Micro	CT817
	Toshiba	TLP2701
Potting compound	LINKTECH	Encapsil 1400
- Added materials of choke and transformer		
2 <sup>nd</sup> Rev.) Change name, president and address of manufacturer (21-080534-20-1 : 2022.01.04.)		
- Before : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China		
After : MEAN WELL (Guangzhou) Electronics Co.,Ltd. / Aden Wang No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China		

변경발급 내용  
Contents of Certificate Revisions

3<sup>rd</sup> Rev.) Change, addition of components and update of KC standards

(23-055470-01-1 : 2023.09.04.)

Based on CB certificate of NL-89503 and CB report of 4904964.50.

- Add critical components.

Components	Manufacturer	Model
Input cord	DONGGUAN TAWANG ELECTRONICS CO LTD	K60245 IEC 57 H05RN-F 3G0.75mm <sup>2</sup> -1.0mm <sup>2</sup>
PCB	Tai He	THS, THD
	KIN YIP	DS-206T, ML-401

- Other changes of components

1. Delete "R.49" "KNB1530" "KNB1560" "PCX2 335" "PCX2 337" "SX1" "MKP62" "LE" from X Capacitors (C1,C2)
  2. X Capacitors (C1,C2) rating update: Min. AC 250V, Max. 1 uF
  3. Delete "WD" "WKP" "440L" "338 6" "F1710" from Y-capacitor (C31)
  4. Y-capacitor (C31) rating update: Min. AC 250V, Max. 2200pF
  5. Delete "WD" "WKP" "440L" "338 6" "KL" from Y-capacitor (C3, C4, C23, C30)
  6. Y-capacitor (C3, C4, C23, C30) rating update: Min. AC 250V, Max. 1500pF
  7. Delete "GUANGZHOU TAIHE" "Brite Plus" "HSIANG KUO" "LOMBER CITCUITS" "RONG HUI" from PCB
  8. Delete "TC 6011" "SSTCP" from Potting compound
- KC standards updated to "KC61347-1(2022-02), KC61347-2-13(2022-02)"

접수번호 : 21-080534-20-1  
(Receipt No.)



# 안전인증서

## Safety Certificate

안전인증번호 : SU11358-18013B  
(Certificate No.)

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

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

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

기본모델명 : ELGC-300-H-DA  
(Basic Model)

파생모델명 : See the attachment 2  
(Series Model)

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 328 W  
(Rating) (output : Max. DC 62 V, 5 600 mA)

시험기준 : KC61347-1(2015-09), KC61347-2-13(2015-09)  
(Standard)

본 인증서는 제조국명 : 중국  
제조사명 : MEAN WELL (Guangzhou) Electronics Co.,Ltd.  
제조공장의 주소 : No.11 Jingu South Road, Huadu District, Guangzhou 510890  
, Guangdong, China  
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.

2022년 01월 04일  
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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□ 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
Input cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75mm <sup>2</sup> - 1.0mm <sup>2</sup>	AC 300 / 500 V, 3G x 1.0 mm <sup>2</sup>	KC
(Alternative)	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0mm <sup>2</sup> - 4mm <sup>2</sup>	AC450 / 750 V, 3G x 1.0 mm <sup>2</sup>	KC
Fuse (FS1)	Conquer	MST	T6.3 A, 250 V or AC 300 V	VDE, TUV
(Alternative)	Walter	2010	T6.3 A, 250 V or AC 300 V	VDE, TUV
(Alternative)	Littelfuse	369	T6.3 A, 250 V or AC 300 V	VDE
Varistor (ZR 1, ZR2)	Centra Science	CNR10D471K	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Centra Science	CNR14D471K	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Centra Science	CNR10D511K	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Centra Science	CNR14D511K	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Centra Science	CNR10D561K	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Centra Science	CNR14D561K	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Joyin	14S471K	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Joyin	14N471K	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Joyin	10S471K	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Joyin	14S511K	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Joyin	14N511K	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Joyin	10S511K	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Joyin	14S561K	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Joyin	14N561K	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Joyin	10S561K	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10561	AC 350 V, DC 450 V, Min. 85 ℃	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Thinking	TVR14561	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10561-D	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14561-D	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10561-V,	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14561-V	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10511	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14511	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14511-V	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10511-V	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14511-D	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10511-D	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10471	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14471	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10471-V	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14471-V	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10471-D	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14471-D	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10561-M	AC 350 V, DC 450 V, 125 ℃	VDE
(Alternative)	Thinking	TVR14561-M	AC 350 V, DC 450 V, 125 ℃	VDE
(Alternative)	Thinking	TVR14511-M	AC 320 V, DC 410 V, 125 ℃	VDE
(Alternative)	Thinking	TVR10511-M	AC 320 V, DC 410 V, 125 ℃	VDE
(Alternative)	Thinking	TVR10471-M	AC 300 V, DC 385 V, 125 ℃	VDE
(Alternative)	Thinking	TVR14471-M	AC 300 V, DC 385 V, 125 ℃	VDE
(Alternative)	Huiwan	V-511K-10D(E)H, V-511K-14D(E)H	AC 320 V, DC 410 V, 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
X Capacitors (C1, C2)	Kemet (Arcotronics)	R.46	Min. AC 275 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Kemet (Arcotronics)	R.49	Min. AC 310 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Epcos	B3292#	Min. AC 275 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Iskra	KNB1530	Min. AC 275 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Iskra	KNB1560	Min. AC 275 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Liow Gu	GS-L	AC 275 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Pilkor	PCX2 335	Min. AC 275 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Pilkor	PCX2 337	Min. AC 275 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Ultra Tech	HQX	Min. AC 275 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Shiny Space	SX1	AC 300 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	HUA JUNG	MKP	AC 305 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Carli Electronics	MPX	Min. AC 275 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Joey	MPX	AC 275 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Xiamen Faratronic	MKP62	Min. AC 275 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Okaya	LE	Min. AC 250 V, Min. 100 ℃, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	NISSEI	MP1	Min. AC 275 V, 100 ℃ C1=0.47 uF, C2=1 uF	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Y-capacitor (C31)	Murata	KX	Min. AC 250 V, 1 000 pF, Min. 105 ℃, Y1	VDE
(Alternative)	Walsin	AH	Min. AC 250 V, 1 000 pF, Min. 105 ℃, Y1	VDE
(Alternative)	TDK	CD	Min. AC 250 V, 1 000 pF, Min. 105 ℃, Y1	VDE
(Alternative)	Welson	WD	Min. AC 250 V, 1 000 pF, Min. 105 ℃, Y1	VDE
(Alternative)	VISHAY	VY1	AC 500 V, 1 000 pF, Min. 105 ℃, Y1	VDE
(Alternative)	VISHAY	WKP	AC 500 V, 1 000 pF, Min. 105 ℃, Y1	VDE
(Alternative)	VISHAY	440L	AC 500 V, 1 000 pF, Min. 105 ℃, Y1	VDE
(Alternative)	Vishay	338 6, F1710	AC 300 V, 1 000 pF, Min. 105 ℃, Y1	ENEC
(Alternative)	Walsin	AS	AC 500 V, 1 000 pF, Min. 105 ℃, Y1	VDE
(Alternative)	Huiwan	AR	AC 500 V, 1 000 pF, Min. 125 ℃, Y1	VDE
(Alternative)	Wanming	HJ	Min. AC 250 V, 1 000 pF, Min. 125 ℃, Y1	VDE
Y-capacitor (C3, C4, C23, C30)	Murata	KX	Min. AC 250 V, Min. 105 ℃, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Murata	KH, KY	Min. AC 250 V, Min. 105 ℃, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AH, AS	Min. AC 250 V, Min. 105 ℃, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AC	Min. AC 250 V, Min. 105 ℃, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AS	AC 500 V, Min. 105 ℃, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	TDK	CD	Min. AC 250 V, Min. 105 ℃, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE



부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	TDK	CS	Min. AC 250 V, Min. 105 ℃, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Welson	WD	Min. AC 250 V, Min. 105 ℃, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Welson	KL	Min. AC 250 V, Min. 105 ℃, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	VY1	AC 500 V, Min. 105 ℃, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	WKP	AC 500 V, Min. 105 ℃, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	440L	AC 500 V, Min. 105 ℃, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	338 6	AC 300 V, Min. 105 ℃, Y1, C3=C4=C30=1 000 pF, C23=100 pF	ENEC
(Alternative)	Huiwan	AR	AC 500 V, Min. 125 ℃, C3=C4=C30=1 000 pF, C23=100 pF, Y1	VDE
(Alternative)	Huiwan	AB	AC 300 V, Min. 125 ℃, C3=C4=C30=1 000 pF, C23=100 pF, Y2	VDE
(Alternative)	Wanming	HM	Min. AC 250 V, Min. 125 ℃, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Wanming	HJ	Min. AC 250 V, Min. 125 ℃, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
PCB	Junda	JD-D,JD-E	V-1, 105 ℃	Tested with appliance, UL
(Alternative)	Junda	JD-D1	Min. V-1, Min. 130 ℃	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	GUANGZHOU TAIHE	THS, THD	V-1, 105 °C	UL
(Alternative)	HONG SHIEN	03V-0, -D, -M	V-1, 105 °C	UL
(Alternative)	HSU TZU	4V0, DV2, MV1	V-1, 105 °C	UL
(Alternative)	JIIN-YU	JY-001, JY-003	V-1, 105 °C	UL
(Alternative)	Brite Plus	DGV0-3A	V-1, 105 °C	UL
(Alternative)	HSIANG KUO	76V0A	V-1, 105 °C	UL
(Alternative)	SHANGHAI WANZHENG	SWZ-1	V-1, 105 °C	UL
(Alternative)	GUANGDONG CHAOHUA	C-103, C-104	V-1, 105 °C	UL
(Alternative)	GUANGDONG CHAOHUA	C-109	Min. V-1, Min. 130 °C	UL
(Alternative)	LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A	Min. V-1, Min. 130 °C	UL
(Alternative)	JIANGSU DIFEIDA	DFD-2	Min. V-0, Min. 130 °C	UL
(Alternative)	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, Min. 130 °C	UL
(Alternative)	RONG HUI	RH-3	Min. V-0, Min. 130 °C	UL
(Alternative)	CHANGZHOU AOHONG	AOH-2, AOH-8	Min. V-0, Min. 130 °C	UL
(Alternative)	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, Min. 130 °C	UL
Line Filter Choke (LF1)	MEAN WELL	TR-1010A	130 °C	Tested with appliance
Line Filter Choke (LF2)	MEAN WELL	TR-6207A	130 °C	Tested with appliance
Line Filter Choke (L1)	MEAN WELL	TF-6918	130 °C	Tested with appliance
Line Filter Choke (L2)	MEAN WELL	TR-6211	130 °C	Tested with appliance
-Winding of LF1, LF2 and L1, L2	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U(MW 75-C), UEWN/U(MW 28-C), UEWS/U(MW75-C)	130 °C	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD-NYU(MW 28-C)	130 °C	Tested with appliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 75-C), UEW-U(MW 75- C), UEW/NY(MW 28- C)	130 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	UEY-2@(MW 28- C), UEW-4@(MW 75- C)	130 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN- B130(UEWNY/Q(A /X)-B,F)(MW 28- C)	130 ℃	Tested with appliance, UL
-(Alternative)	TAI- I ELECTRIC WIRE & CABLE CO LTD.	UEWE(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWN(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP.	xUEW-NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEWN/U(MW 80- C), UEFN/U(MW 80- C)	155 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY(MW 80- C)	155 ℃	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 79-C), UEW/NY(MW 80- C)	155 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	SFBY-2@(a)(MW 80-C), SFFW-2@(MW 79-C), SFBW-2@(MW 79-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN- B130(UEWNY/Q(A /X)-B,F)(MW 80- C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYFU- H180(UEW/QA-H) (MW 82-C)	180 ℃	Tested with appliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	TAI- I ELECTRIC WIRE & CABLE CO LTD.	UEWF-E(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWNF(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP	xFSW-NY(MW 80-C)	155 ℃	Tested with appliance, UL
Transformer (T1) for ELGC-300-H models	MEAN WELL Enterprises Co., Ltd.	TF-6914	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6914	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6914	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6914	Class B	Tested with appliance
Transformer (T1) for ELGC-300-M models	MEAN WELL Enterprises Co., Ltd.	TF-6915	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6915	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6915	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6915	Class B	Tested with appliance
Transformer (T500)	MEAN WELL Enterprises Co., Ltd.	TF-6919	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6919	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-Bobbin of T1, T500	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 °C	Tested with appliance, UL
-(Alternative)	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL
-(Alternative)	SUMITOMO BAKELITE CO LTD.	PM-9750	155 °C	UL
-(Alternative)	SUMITOMO BAKELITE CO LTD.	PM-9823	155 °C	UL
-(Alternative)	NAN YA	1403G3, 1403G6	V-0, 130 °C	UL
-(Alternative)	CHANG CHUN PLASTICS CO LTD	T375J,T375HF	V-0, 150 °C	UL
-(Alternative)	SUMITOMO CHEMICAL CO LTD	E4008	130 °C	UL
-Triple insulation wire of T1, T500	Furukawa	TEX-E, TEX-ELZ	130 °C	Tested with appliance, UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-2X, TIW-2SX	130 °C	UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-3X	155 °C	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(B)- M	130 °C	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(F)-M	155 °C	UL
-Winding of transformer (T1, T500)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U@ (MW 75-C)	130 °C	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD-NYU(MW 28-C)	130 °C	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRIC CO LTD.	UEW(MW75-C), UEW-U(MW 75-C), UEW/NY(MW 28-C)	130 °C	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	UEY-2@(MW 28-C), UEW-4@(MW 75-C)	130 °C	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 28-C)	130 °C	Tested with appliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	TAI- I ELECTRIC WIRE & CABLE CO LTD.	UEWE(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWN(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP.	xUEW-NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEWN/U(MW 80-C), UEFN/U(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 79-C), UEW/NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	SFBY-2@(a) (MW 80-C), SFFW-2@ (MW 79-C), SFBW-2@ (MW 79-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYFU-H180(UEW/QA-H)(MW 82-C)	180 ℃	Tested with appliance, UL
-(Alternative)	TAI- I ELECTRIC WIRE & CABLE CO LTD.	UEWF-E(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWNF(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP	xFSW-NY(MW 80-C)	155 ℃	Tested with appliance, UL
-Teflon tube	Great Holding Industrial Co., Ltd.	TFL,TFT,TFS	200 ℃	Tested with appliance, UL
-(Alternative)	ZEUS INDUSTRIAL PRODUCTS INC.	TFE-TW-300, TFE-SW-600	200 ℃	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	CHANGYUAN ELECTRONICS GROUP CO LTD	CB-HFT, CB-HFT(XY), CYG-MT, CB-TT-L, CB-TT-S, CB-TT-T, CYG-ZHP	200 °C	UL
-Insulation tape of T1, T500	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1351-1(a), 1351-2(c), 1351T-1(a), 1351T-2(a), 1351T-3(a)	130 °C	Tested with appliance, UL
-(Alternative)	BONDTEC PACIFIC CO LTD.	No 370S(b), No371F(a)	130 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1350F-1(b), 1350T-1(b), 1350T-3(b), 1318-1	130 °C	UL
-(Alternative)	Symbio Inc.	MY9YAF(h), 35660Y(e), 35660(a), 35661(c).	130 °C	UL
-(Alternative)	JingjiangYahua	CT*(b)(g).PZ, WF	130 °C	UL
-(Alternative)	E I DUPONT DE NEMOURS & CO INC	Nomex®410,411, 414, 418	220 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	92	180 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1318-1(a), 1350F-1(b), 1350T-1(b), 1350T-2(b), 1350T-3(b), 1351T-1(a), 1351T-2(a), 44(a), 56(a), 44, 44D, 44D-A, 44- T, 44T-A	130 °C	UL
Photo coupler (U4, U5)	Lite-On	LTV-1006	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr. ≥ 8.0mm, min. 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
(Alternative)	Lite-On	LTV-1008	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-817	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Lite-On	LTV-817M	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Sharp	PC123	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext. cr= 8.0 mm, 110 °C	VDE
(Alternative)	Cosmo	K1010	Dti= 0.5 mm, Int. cr= 5.3 mm,   Ext. cr = 8.0 mm, 115 °C	VDE
(Alternative)	Toshiba Corporation	TLP781F	Dti = 0.6 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0 mm, 115 °C	VDE
(Alternative)	Everlight	EL817M	Dti = 0.4 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-817S	Dti=0.4 mm, Int.cr=5.2 mm, Ext.cr.≥ 8.0 mm, 115 °C	VDE
(Alternative)	VISHAY	TCLT1008	Dti=0.43 mm, Ext.dcr.≥ 8.0 mm, 110 °C	VDE
(Alternative)	CT-Micro	CT817	Dti=0.4 mm, Int.cr=5.3 mm, Ext.cr.≥ 8.0 mm, Min. 100 °C	VDE
(Alternative)	Toshiba	TLP2701	Dti=0.4 mm, Ext.cr.≥ 8.0 mm, 125 °C	VDE
Potting compound	Guangzhou Huitian New Chemical Ltd.	5299,5297	V-0, 150 °C	Tested with appliance, UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B H	V-0, 150 °C	UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B	V-0, 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
(Alternative)	DOW CORNING CORP	SYLGARD 160	V-0, 150 °C	UL
(Alternative)	DOW CORNING CORP	TC-6011	V-0, 150 °C	UL
(Alternative)	U-Bond	UB-5203A/ UB-5203B	V-0, 150 °C	UL
(Alternative)	Riseast	SSTCP	V-0, 150 °C	UL
(Alternative)	LINKTECH	EncapSil 1400	V-0, 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.*

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)
ELGC-300-H	Without dimming wire and without dimming PCB
ELGC-300-H-A	Without dimming wire, without dimming PCB and with Rear cover(Plastic cap)
ELGC-300-H-B	Dimming PCB (B type)
ELGC-300-H-AB	Dimming PCB (B type) and with Rear cover(Plastic cap)
ELGC-300-H-D2	Dimming PCB (D type)
ELGC-300-H-AD2	Dimming PCB (D type) and with Rear cover(Plastic cap)
ELGC-300-H-ADA	With Rear cover(Plastic cap)
ELGC-300-M	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Without dimming wire and without dimming PCB
ELGC-300-M-A	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Without dimming wire, without dimming PCB and with Rear cover(Plastic cap)
ELGC-300-M-B	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V) and Dimming PCB (B type)
ELGC-300-M-AB	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Dimming PCB (B type) and with Rear cover(Plastic cap)
ELGC-300-M-DA	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V)
ELGC-300-M-D2	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V) and Dimming PCB (D type)
ELGC-300-M-AD2	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Dimming PCB (D type) and with Rear cover(Plastic cap)
ELGC-300-M-ADA	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V) and With Rear cover(Plastic cap)

제품특기사항 및 시험조건  
Remarks & Test conditions

1. Review Ref. No.: 18-075021-04-2 (2019.04.26.)

2. Product Description:

- Rated input : AC 100-240 V, 50/60 Hz, 328 W, 3 A
- Rated output current ( $I_{rated}$ ) : 5 600 mA
- Rated output power ( $P_{rated}$ ) : 301.6 W
- Maximum output voltage(U-OUT) : DC 62 V
- tc: 85 °C, ta : 40 °C
- Power factor : 0.95
- IP ratings : IP67
- Type of protection : Class I
- Thermally protection : 110 °C
- Constant current type, Independent, SELV controlgear
- With dimming wire, with dimming PCB(DA type) and without Rear cover(Plastic cap)
- This product is filled with potting compound
- Metal enclosure used

□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다.  
검토 담당자 / 연락처 : 고객지원본부 인증융합평가팀 신 종욱 / 02-8601-1437

□ *If you have any question on product review, please contact the person below :*

*Job holder: Customer Support Division, Certification Convergence Evaluation Team, J.U.Shin / +82 2 860-1437*

FP511-05

□ 첨부 3 : 안전인증의 변경 현황  
Revisions Status

변경발급 내용  
Contents of Certificate Revisions

1<sup>st</sup> Rev.) Change of PCB layout and Addition of components (21-058991-02-1 : 2021.10.15.)

- PCB layout: Added copper foil around the component holes for fixing components better.
- Addition :

Components	Manufacturer	Model
Varistor (ZR1, ZR2)	Huiwan	V-511K-10D(E)H, V-511K-14D(E)H
X-capacitor (C1, C2)	NISSEI	MP1
Y-capacitor (C31)	Huiwan	AR
	Wanming	HJ
	Walsin	AS
Y-capacitor (C3, C4, C23, C30)	Huiwan	AR
	Huiwan	AB
	Wanming	HM
	Wanming	HJ
PCB	Junda	JD-D1
	GUANGDONG CHAOHUA	C-109
	LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A
	JIANGSU DIFEIDA	DFD-2
	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S
	RONG HUI	RH-3
	CHANGZHOU AOHONG	AOH-2, AOH-8
	CHANGZHOU HAIHONG	CCE-V0, HDCEM1
Photo coupler (U4,U5)	Lite-on	LTV-817S
	VISHAY	TCLT1008
	CT-Micro	CT817
	Toshiba	TLP2701
Potting compound	LINKTECH	Encapsil 1400

- Added materials of choke and transformer

2<sup>nd</sup> Rev.) Change name, president and address of manufacturer (21-080534-20-1 : 2022.01.04.)

- Before : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming  
No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China
- After : MEAN WELL (Guangzhou) Electronics Co.,Ltd. / Aden Wang  
No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China

접 수 번 호 : 21-058991-02-1  
(Receipt No.)



# 안전인증서

## Safety Certificate

안전인증번호 : SU11358-18013A  
(Certificate No.)

제조업자/수입업자명 : MEAN WELL (Guangzhou) Electronics Co., Ltd.  
(Manufacturer/importer) : Huadu branch

주소 : No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou,  
(Address) P.R. China

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

기본모델명 : ELGC-300-H-DA  
(Basic Model)

파생모델명 : See the attachment 2  
(Series Model)

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 328 W  
(Rating) : (output : Max. DC 62 V, 5 600 mA)

시험기준 : KC61347-1(2015-09), KC61347-2-13(2015-09)  
(Standard)

본 인증서는 제조국명 : 중국  
제조업자명 : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch  
제조공장의 주소 : No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China  
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.

2021 년 10 월 15 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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□ 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
Input cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75mm <sup>2</sup> - 1.0mm <sup>2</sup>	AC 300 / 500 V, 3G x 1.0 mm <sup>2</sup>	KC
(Alternative)	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0mm <sup>2</sup> - 4mm <sup>2</sup>	AC450 / 750 V, 3G x 1.0 mm <sup>2</sup>	KC
Fuse (FS1)	Conquer	MST	T6.3 A, 250 V or AC 300 V	VDE, TUV
(Alternative)	Walter	2010	T6.3 A, 250 V or AC 300 V	VDE, TUV
(Alternative)	Littelfuse	369	T6.3 A, 250 V or AC 300 V	VDE
Varistor (ZR 1, ZR2)	Centra Science	CNR10D471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR10D511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR10D561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10561	AC 350 V, DC 450 V, Min. 85 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Thinking	TVR14561	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10561-D	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14561-D	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10561-V,	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14561-V	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10511	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14511	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14511-V	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10511-V	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14511-D	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10511-D	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10471	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14471	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10471-V	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14471-V	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10471-D	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14471-D	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10561-M	AC 350 V, DC 450 V, 125 ℃	VDE
(Alternative)	Thinking	TVR14561-M	AC 350 V, DC 450 V, 125 ℃	VDE
(Alternative)	Thinking	TVR14511-M	AC 320 V, DC 410 V, 125 ℃	VDE
(Alternative)	Thinking	TVR10511-M	AC 320 V, DC 410 V, 125 ℃	VDE
(Alternative)	Thinking	TVR10471-M	AC 300 V, DC 385 V, 125 ℃	VDE
(Alternative)	Thinking	TVR14471-M	AC 300 V, DC 385 V, 125 ℃	VDE
(Alternative)	Huiwan	V-511K-10D(E)H, V-511K-14D(E)H	AC 320 V, DC 410 V, 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
X Capacitors (C1, C2)	Kemet (Arcotronics)	R.46	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Kemet (Arcotronics)	R.49	Min. AC 310 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Epcos	B3292#	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Iskra	KNB1530	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Iskra	KNB1560	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Liow Gu	GS-L	AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Pilkor	PCX2 335	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Pilkor	PCX2 337	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Ultra Tech	HQX	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Shiny Space	SX1	AC 300 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	HUA JUNG	MKP	AC 305 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Carli Electronics	MPX	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Joey	MPX	AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Xiamen Faratronic	MKP62	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Okaya	LE	Min. AC 250 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	NISSEI	MP1	Min. AC 275 V, 100 °C C1=0.47 uF, C2=1 uF	VDE



부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Y-capacitor (C31)	Murata	KX	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Walsin	AH	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	TDK	CD	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Welson	WD	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	VY1	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	WKP	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	440L	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Vishay	338 6, F1710	AC 300 V, 1 000 pF, Min. 105 °C, Y1	ENEC
(Alternative)	Walsin	AS	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Huiwan	AR	AC 500 V, 1 000 pF, Min. 125 °C, Y1	VDE
(Alternative)	Wanming	HJ	Min. AC 250 V, 1 000 pF, Min. 125 °C, Y1	VDE
Y-capacitor (C3, C4, C23, C30)	Murata	KX	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Murata	KH, KY	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AH, AS	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AC	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AS	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	TDK	CD	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	TDK	CS	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Welson	WD	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Welson	KL	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	VY1	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	WKP	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	440L	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	338 6	AC 300 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	ENEC
(Alternative)	Huiwan	AR	AC 500 V, Min. 125 °C, C3=C4=C30=1 000 pF, C23=100 pF, Y1	VDE
(Alternative)	Huiwan	AB	AC 300 V, Min. 125 °C, C3=C4=C30=1 000 pF, C23=100 pF, Y2	VDE
(Alternative)	Wanming	HM	Min. AC 250 V, Min. 125 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Wanming	HJ	Min. AC 250 V, Min. 125 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
PCB	Junda	JD-D,JD-E	V-1, 105 °C	Tested with appliance, UL
(Alternative)	Junda	JD-D1	Min. V-1, Min. 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
(Alternative)	GUANGZHOU TAIHE	THS, THD	V-1, 105 °C	UL
(Alternative)	HONG SHIEN	03V-0, -D, -M	V-1, 105 °C	UL
(Alternative)	HSU TZU	4V0, DV2, MV1	V-1, 105 °C	UL
(Alternative)	JIIN-YU	JY-001, JY-003	V-1, 105 °C	UL
(Alternative)	Brite Plus	DGV0-3A	V-1, 105 °C	UL
(Alternative)	HSIANG KUO	76V0A	V-1, 105 °C	UL
(Alternative)	SHANGHAI WANZHENG	SWZ-1	V-1, 105 °C	UL
(Alternative)	GUANGDONG CHAOHUA	C-103, C-104	V-1, 105 °C	UL
(Alternative)	GUANGDONG CHAOHUA	C-109	Min. V-1, Min. 130 °C	UL
(Alternative)	LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A	Min. V-1, Min. 130 °C	UL
(Alternative)	JIANGSU DIFEIDA	DFD-2	Min. V-0, Min. 130 °C	UL
(Alternative)	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, Min. 130 °C	UL
(Alternative)	RONG HUI	RH-3	Min. V-0, Min. 130 °C	UL
(Alternative)	CHANGZHOU AOHONG	AOH-2, AOH-8	Min. V-0, Min. 130 °C	UL
(Alternative)	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, Min. 130 °C	UL
Line Filter Choke (LF1)	MEAN WELL	TR-1010A	130 °C	Tested with appliance
Line Filter Choke (LF2)	MEAN WELL	TR-6207A	130 °C	Tested with appliance
Line Filter Choke (L1)	MEAN WELL	TF-6918	130 °C	Tested with appliance
Line Filter Choke (L2)	MEAN WELL	TR-6211	130 °C	Tested with appliance
-Winding of LF1, LF2 and L1, L2	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U(MW 75-C), UEWN/U(MW 28-C), UEWS/U(MW75-C)	130 °C	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD-NYU(MW 28-C)	130 °C	Tested with appliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 75-C), UEW-U(MW 75- C), UEW/NY(MW 28- C)	130 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	UEY-2@(MW 28- C), UEW-4@(MW 75- C)	130 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN- B130(UEWNY/Q(A /X)-B,F)(MW 28- C)	130 ℃	Tested with appliance, UL
-(Alternative)	TAI-I ELECTRIC WIRE & CABLE CO LTD.	UEWE(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWN(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP.	xUEW-NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEWN/U(MW 80- C), UEFN/U(MW 80- C)	155 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY(MW 80- C)	155 ℃	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 79-C), UEW/NY(MW 80- C)	155 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	SFBY-2@(a)(MW 80-C), SFFW-2@(MW 79-C), SFBW-2@(MW 79-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN- B130(UEWNY/Q(A /X)-B,F)(MW 80- C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYFU- H180(UEW/QA-H) (MW 82-C)	180 ℃	Tested with appliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	TAI-ELECTRIC WIRE & CABLE CO LTD.	UEWF-E(MW 80- C)	155 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWNF(MW 80- C)	155 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP	xFSW-NY(MW 80-C)	155 ℃	Tested with appliance, UL
Transformer (T1) for ELGC-300- H models	MEAN WELL Enterprises Co., Ltd.	TF-6914	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6914	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6914	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6914	Class B	Tested with appliance
Transformer (T1) for ELGC-300- M models	MEAN WELL Enterprises Co., Ltd.	TF-6915	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6915	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6915	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6915	Class B	Tested with appliance
Transformer (T500)	MEAN WELL Enterprises Co., Ltd.	TF-6919	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6919	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-Bobbin of T1, T500	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 °C	Tested with appliance, UL
-(Alternative)	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL
-(Alternative)	<b>SUMITOMO BAKELI TE CO LTD.</b>	<b>PM-9750</b>	<b>155 °C</b>	<b>UL</b>
-(Alternative)	<b>SUMITOMO BAKELI TE CO LTD.</b>	<b>PM-9823</b>	<b>155 °C</b>	<b>UL</b>
-(Alternative)	NAN YA	1403G3, 1403G6	V-0, 130 °C	UL
-(Alternative)	CHANG CHUN PLASTICS CO LTD	T375J,T375HF	V-0, 150 °C	UL
-(Alternative)	SUMITOMO CHEMICAL CO LTD	E4008	130 °C	UL
-Triple insulation wire of T1, T500	Furukawa	TEX-E, TEX-ELZ	130 °C	Tested with appliance, UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-2X, TIW-2SX	130 °C	UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-3X	155 °C	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(B)-M	130 °C	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(F)-M	155 °C	UL
-Winding of transformer (T1, T500)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U@ (MW 75-C)	130 °C	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD-NYU(MW 28- C)	130 °C	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW75-C), UEW-U(MW 75- C), UEW/NY(MW 28- C)	130 °C	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	UEY-2@(MW 28- C), UEW-4@(MW 75- C)	130 °C	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN- B130(UEWNY/Q(A /X)-B,F)(MW 28- C)	130 °C	Tested with appliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	TAI-I ELECTRIC WIRE & CABLE CO LTD.	UEWE(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWN(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP.	xUEW-NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEWN/U(MW 80-C), UEFN/U(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 79-C), UEW/NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	SFBY-2@(a) (MW 80-C), SFFW-2@ (MW 79-C), SFBW-2@ (MW 79-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYFU-H180(UEW/QA-H) (MW 82-C)	180 ℃	Tested with appliance, UL
-(Alternative)	TAI-I ELECTRIC WIRE & CABLE CO LTD.	UEWF-E(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWNF(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP	xFSW-NY(MW 80-C)	155 ℃	Tested with appliance, UL
-Teflon tube	Great Holding Industrial Co., Ltd.	TFL,TFT,TFS	200 ℃	Tested with appliance, UL
-(Alternative)	ZEUS INDUSTRIAL PRODUCTS INC.	TFE-TW-300, TFE-SW-600	200 ℃	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	CHANGYUAN ELECTRONICS GROUP CO LTD	CB-HFT, CB-HFT(XY), CYG-MT, CB-TT-L, CB-TT-S, CB-TT-T, CYG-ZHP	200 °C	UL
-Insulation tape of T1, T500	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1351-1(a), 1351-2(c), 1351T-1(a), 1351T-2(a), 1351T-3(a)	130 °C	Tested with appliance, UL
-(Alternative)	BONDTEC PACIFIC CO LTD.	No 370S(b), No371F(a)	130 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1350F-1(b), 1350T-1(b), 1350T-3(b), 1318-1	130 °C	UL
-(Alternative)	Symbio Inc.	MY9YAF(h), 35660Y(e), 35660(a), 35661(c),	130 °C	UL
-(Alternative)	JingjiangYahua	CT*(b)(g).PZ, WF	130 °C	UL
-(Alternative)	E I DUPONT DE NEMOURS & CO INC	Nomex®410,411, 414, 418	220 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	92	180 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1318-1(a), 1350F-1(b), 1350T-1(b), 1350T-2(b), 1350T-3(b), 1351T-1(a), 1351T-2(a), 44(a), 56(a), 44, 44D, 44D-A, 44- T, 44T-A	130 °C	UL
Photo coupler (U4, U5)	Lite-On	LTV-1006	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr.≥ 8.0mm, min. 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
(Alternative)	Lite-On	LTV-1008	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-817	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Lite-On	LTV-817M	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Sharp	PC123	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext. cr= 8.0 mm, 110 °C	VDE
(Alternative)	Cosmo	K1010	Dti= 0.5 mm, Int. cr= 5.3 mm,   Ext. cr = 8.0 mm, 115 °C	VDE
(Alternative)	Toshiba Corporation	TLP781F	Dti = 0.6 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0 mm, 115 °C	VDE
(Alternative)	Everlight	EL817M	Dti = 0.4 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-817S	Dti=0.4 mm, Int.cr=5.2 mm, Ext.cr.≥ 8.0 mm, 115 °C	VDE
(Alternative)	VISHAY	TCLT1008	Dti=0.43 mm, Ext.dcr.≥ 8.0 mm, 110 °C	VDE
(Alternative)	CT-Micro	CT817	Dti=0.4 mm, Int.cr=5.3 mm, Ext.cr.≥ 8.0 mm, Min. 100 °C	VDE
(Alternative)	Toshiba	TLP2701	Dti=0.4 mm, Ext.cr.≥ 8.0 mm, 125 °C	VDE
Potting compound	Guangzhou Huitian New Chemical Ltd.	5299,5297	V-0, 150 °C	Tested with appliance, UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B H	V-0, 150 °C	UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B	V-0, 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
(Alternative)	DOW CORNING CORP	SYLGARD 160	V-0, 150 °C	UL
(Alternative)	DOW CORNING CORP	TC-6011	V-0, 150 °C	UL
(Alternative)	U-Bond	UB-5203A/ UB-5203B	V-0, 150 °C	UL
(Alternative)	Riseast	SSTCP	V-0, 150 °C	UL
(Alternative)	LINKTECH	EncapSil 1400	V-0, 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)
ELGC-300-H	Without dimming wire and without dimming PCB
ELGC-300-H-A	Without dimming wire, without dimming PCB and with Rear cover(Plastic cap)
ELGC-300-H-B	Dimming PCB (B type)
ELGC-300-H-AB	Dimming PCB (B type) and with Rear cover(Plastic cap)
ELGC-300-H-D2	Dimming PCB (D type)
ELGC-300-H-AD2	Dimming PCB (D type) and with Rear cover(Plastic cap)
ELGC-300-H-ADA	With Rear cover(Plastic cap)
ELGC-300-M	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Without dimming wire and without dimming PCB
ELGC-300-M-A	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Without dimming wire, without dimming PCB and with Rear cover(Plastic cap)
ELGC-300-M-B	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V) and Dimming PCB (B type)
ELGC-300-M-AB	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Dimming PCB (B type) and with Rear cover(Plastic cap)
ELGC-300-M-DA	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V)
ELGC-300-M-D2	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V) and Dimming PCB (D type)
ELGC-300-M-AD2	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Dimming PCB (D type) and with Rear cover(Plastic cap)
ELGC-300-M-ADA	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V) and With Rear cover(Plastic cap)

제품특기사항 및 시험조건  
Remarks & Test conditions

1. Review Ref. No.: 18-075021-04-2 (2019.04.26.)
  
2. Product Description:
  - Rated input : AC 100-240 V, 50/60 Hz, 328 W, 3 A
  - Rated output current ( $I_{rated}$ ) : 5 600 mA
  - Rated output power ( $P_{rated}$ ) : 301.6 W
  - Maximum output voltage(U-OUT) : DC 62 V
  - tc: 85 °C, ta : 40 °C
  - Power factor : 0.95
  - IP ratings : IP67
  - Type of protection : Class I
  - Thermally protection : 110 °C
  - Constant current type, Independent, SELV controlgear
  - With dimming wire, with dimming PCB(DA type) and without Rear cover(Plastic cap)
  - This product is filled with potting compound
  - Metal enclosure used

□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다.  
검토 담당자 / 연락처 : 고객지원본부 인증관리센터 이 용노 / (02)860-1423  
□ *If you have any question on product review, please contact the person below :*  
*Job holder: Customer Support Division, Certification Management Center, Y.R.LEE/+82 2 8601-423*

FP511-05

□ 첨부 3 : 안전인증의 변경 현황  
Revisions Status

변경발급 내용 Contents of Certificate Revisions		
1 <sup>st</sup> Rev.) Change of PCB layout and Addition of components (21-058991-02-1 : 2021.10.15.)		
- PCB layout: Added copper foil around the component holes for fixing components better.		
- Addition ;		
Components	Manufacturer	Model
Varistor (ZR1, ZR2)	Huiwan	V-511K-10D(E)H, V-511K-14D(E)H
X-capacitor (C1, C2)	NISSEI	MP1
Y-capacitor (C31)	Huiwan	AR
	Wanming	HJ
	Walsin	AS
Y-capacitor (C3, C4, C23, C30)	Huiwan	AR
	Huiwan	AB
	Wanming	HM
	Wanming	HJ
PCB	Junda	JD-D1
	GUANGDONG CHAOHUA	C-109
	LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A
	JIANGSU DIFEIDA	DFD-2
	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S
	RONG HUI	RH-3
	CHANGZHOU AOHONG	AOH-2, AOH-8
	CHANGZHOU HAIHONG	CCE-V0, HDCEM1
Photo coupler (U4,U5)	Lite-on	LTV-817S
	VISHAY	TCLT1008
	CT-Micro	CT817
	Toshiba	TLP2701
Potting compound	LINKTECH	Encapsil 1400
- Added materials of choke and transformer		

FP511-06

접수번호 : 18-075021-04-1  
(Receipt No.)



# 안전인증서

## Safety Certificate

안전인증번호 : SU11358-18013  
(Certificate No.)

제조업자/수입업자명 : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch  
(Manufacturer/importer)

주소 : No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China  
(Address)

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

기본모델명 : ELGC-300-H-DA  
(Basic Model)

파생모델명 : See the attachment 2  
(Series Model)

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 328 W  
(Rating) (output : Max. DC 62 V, 5 600 mA)

시험기준 : KC61347-1(2015-09), KC61347-2-13 (2015-09)  
(Standard)

본 인증서는 제조국명 : 중국  
제조업자명 : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch  
제조공장의 주소 : No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China  
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.

2019 년 04 월 29 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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□ 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
Input cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75mm <sup>2</sup> -1.0mm <sup>2</sup>	AC 300 / 500 V, 3G x 1.0 mm <sup>2</sup>	KC
(Alternative)	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0mm <sup>2</sup> -4mm <sup>2</sup>	AC450 / 750 V, 3G x 1.0 mm <sup>2</sup>	KC
Fuse (FS1)	Conquer	MST	T6.3 A, 250 V or AC 300 V	VDE, TUV
(Alternative)	Walter	2010	T6.3 A, 250 V or AC 300 V	VDE, TUV
(Alternative)	Littelfuse	369	T6.3 A, 250 V or AC 300 V	VDE
Varistor (ZR 1, ZR2)	Centra Science	CNR10D471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR10D511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR10D561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10561	AC 350 V, DC 450 V, Min. 85 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Thinking	TVR14561	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10561-D	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14561-D	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10561-V,	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14561-V	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10511	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14511	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14511-V	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10511-V	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14511-D	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10511-D	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10471	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14471	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10471-V	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14471-V	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10471-D	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14471-D	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10561-M	AC 350 V, DC 450 V, 125 °C	VDE
(Alternative)	Thinking	TVR14561-M	AC 350 V, DC 450 V, 125 °C	VDE
(Alternative)	Thinking	TVR14511-M	AC 320 V, DC 410 V, 125 °C	VDE
(Alternative)	Thinking	TVR10511-M	AC 320 V, DC 410 V, 125 °C	VDE
(Alternative)	Thinking	TVR10471-M	AC 300 V, DC 385 V, 125 °C	VDE
(Alternative)	Thinking	TVR14471-M	AC 300 V, DC 385 V, 125 °C	VDE
X Capacitors (C1, C2)	Kemet (Arcotronics)	R.46	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Kemet (Arcotronics)	R.49	Min. AC 310 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC



부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Epcos	B3292#	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Iskra	KNB1530	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Iskra	KNB1560	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Liow Gu	GS-L	AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Pilkor	PCX2 335	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Pilkor	PCX2 337	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Ultra Tech	HQX	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Shiny Space	SX1	AC 300 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	HUA JUNG	MKP	AC 305 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Carli Electronics	MPX	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Joey	MPX	AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Xiamen Faratronic	MKP62	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Okaya	LE	Min. AC 250 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
Y-capacitor (C31)	Murata	KX	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Walsin	AH	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	TDK	CD	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Welson	WD	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	VY1	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	WKP	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	440L	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Vishay	338 6, F1710	AC 300 V, 1 000 pF, Min. 105 °C, Y1	ENEC
Y-capacitor (C3, C4, C23, C30)	Murata	KX	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Murata	KH, KY	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Walsin	AH, AS	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AC	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AS	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	TDK	CD	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	TDK	CS	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Welson	WD	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Welson	KL	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	VY1	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	WKP	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	440L	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	338 6	AC 300 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	ENEC
PCB	Junda	JD-D,JD-E	V-1, 105 °C	Tested with appliance, UL
(Alternative)	GUANGZHOU TAIHE	THS, THD	V-1, 105 °C	UL
(Alternative)	HONG SHIEN	03V-0, -D, -M	V-1, 105 °C	UL
(Alternative)	HSU TZU	4V0, DV2, MV1	V-1, 105 °C	UL
(Alternative)	JIIN-YU	JY-001, JY-003	V-1, 105 °C	UL
(Alternative)	Brite Plus	DGV0-3A	V-1, 105 °C	UL
(Alternative)	HSIANG KUO	76V0A	V-1, 105 °C	UL
(Alternative)	SHANGHAI WANZHENG	SWZ-1	V-1, 105 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	GUANGDONG CHAOHUA	C-103, C-104	V-1, 105 °C	UL
Line Filter Choke (LF1)	MEAN WELL	TR-1010A	130 °C	Tested with appliance
Line Filter Choke (LF2)	MEAN WELL	TR-6207A	130 °C	Tested with appliance
Line Filter Choke (L1)	MEAN WELL	TF-6918	130 °C	Tested with appliance
Line Filter Choke (L2)	MEAN WELL	TR-6211	130 °C	Tested with appliance
-Winding of LF1, LF2 and L1, L2	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U(MW 75- C), UEWN/U(MW 28-C), UEWS/U(MW75- C)	130 °C	Tested with appliance, UL
Transformer (T1) for ELGC-300-H models	MEAN WELL Enterprises Co., Ltd.	TF-6914	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6914	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6914	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6914	Class B	Tested with appliance
Transformer (T1) for ELGC-300- M models	MEAN WELL Enterprises Co., Ltd.	TF-6915	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6915	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6915	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6915	Class B	Tested with appliance
Transformer (T500)	MEAN WELL Enterprises Co., Ltd.	TF-6919	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6919	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6919	Class B	Tested with appliance
-Bobbin of T1, T500	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 °C	Tested with appliance, UL
-(Alternative)	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL
-(Alternative)	NAN YA	1403G3, 1403G6	V-0, 130 °C	UL
-(Alternative)	CHANG CHUN PLASTICS CO LTD	T375J,T375HF	V-0, 150 °C	UL
-(Alternative)	SUMITOMO CHEMICAL CO LTD	E4008	130 °C	UL
-Triple insulation wire of T1, T500	Furukawa	TEX-E	130 °C	Tested with appliance, UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-2X, TIW- 2SX	130 °C	UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-3X	155 °C	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(B)- M	130 °C	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(F)-M	155 °C	UL
-Winding of transformer (T1)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U@ (MW 75-C)	130 °C	Tested with appliance, UL
-Teflon tube	Great Holding Industrial Co., Ltd.	TFL,TFT,TFS	200 °C	Tested with appliance, UL
-(Alternative)	ZEUS INDUSTRIAL PRODUCTS INC.	TFE-LW-150, TFE-TW-300, TFE-SW-600	200 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-Insulation tape of T1, T500	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1351-1(a), 1351-2(c), 1351T-1(a), 1351T-2(a), 1351T-3(a)	130 °C	Tested with appliance, UL
-(Alternative)	BONDTEC PACIFIC CO LTD.	No 370S(b), No371F(a)	130 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1350F-1(b), 1350T-1(b), 1350T-3(b), 1318-1	130 °C	UL
-(Alternative)	Symbio Inc.	MY9YAF(h), 35660Y(e), 35660(a), 35661(c),	130 °C	UL
-(Alternative)	JingjiangYahua	CT*(b)(g).PZ, WF	130 °C	UL
-(Alternative)	E I DUPONT DE NEMOURS & CO INC	Nomex®410,411, 414, 418	220 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	92	180 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1318-1(a), 1350F-1(b), 1350T-1(b), 1350T-2(b), 1350T-3(b), 1351T-1(a), 1351T-2(a), 44(a), 56(a), 44, 44D, 44D-A, 44- T, 44T-A	130 °C	UL
Photo coupler (U4, U5)	Lite-On	LTV-1006	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-1008	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-817	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Lite-On	LTV-817M	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Sharp	PC123	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext. cr= 8.0 mm, 110 °C	VDE
(Alternative)	Cosmo	K1010	Dti= 0.5 mm, Int. cr= 5.3 mm,   Ext. cr = 8.0 mm, 115 °C	VDE
(Alternative)	Toshiba Corporation	TLP781F	Dti = 0.6 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0 mm, 115 °C	VDE
(Alternative)	Everlight	EL817M	Dti = 0.4 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
Potting compound	Guangzhou Huitian New Chemical Ltd.	5299,5297	V-0, 150 °C	Tested with appliance, UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B H	V-0, 150 °C	UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B	V-0, 150 °C	UL
(Alternative)	DOW CORNING CORP	<u>SYLGARD 160</u>	V-0, 150 °C	UL
(Alternative)	DOW CORNING CORP	TC-6011	V-0, 150 °C	UL
(Alternative)	U-Bond	UB-5203A/ UB-5203B	V-0, 150 °C	UL
(Alternative)	Riseast	SSTCP	V-0, 150 °C	UL

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)
ELGC-300-H	Without dimming wire and without dimming PCB
ELGC-300-H-A	Without dimming wire, without dimming PCB and with Rear cover(Plastic cap)
ELGC-300-H-B	Dimming PCB (B type)
ELGC-300-H-AB	Dimming PCB (B type) and with Rear cover(Plastic cap)
ELGC-300-H-D2	Dimming PCB (D type)
ELGC-300-H-AD2	Dimming PCB (D type) and with Rear cover(Plastic cap)
ELGC-300-H-ADA	With Rear cover(Plastic cap)
ELGC-300-M	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Without dimming wire and without dimming PCB
ELGC-300-M-A	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Without dimming wire, without dimming PCB and with Rear cover(Plastic cap)
ELGC-300-M-B	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V) and Dimming PCB (B type)
ELGC-300-M-AB	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Dimming PCB (B type) and with Rear cover(Plastic cap)
ELGC-300-M-DA	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V)
ELGC-300-M-D2	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V) and Dimming PCB (D type)
ELGC-300-M-AD2	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V), Dimming PCB (D type) and with Rear cover(Plastic cap)
ELGC-300-M-ADA	$I_{rated}$ (2 800 mA), U-OUT (DC 120 V) and With Rear cover(Plastic cap)

제품특기사항 및 시험조건  
Remarks & Test conditions

1. Review Ref. No.: 18-075021-04-2 (2019.04.26.)
2. Product Description:
  - Rated input : AC 100-240 V, 50/60 Hz, 328 W, 3 A
  - Rated output current ( $I_{rated}$ ) : 5 600 mA
  - Rated output power ( $P_{rated}$ ) : 301.6 W
  - Maximum output voltage(U-OUT) : DC 62 V
  - tc: 85 °C, ta : 40 °C
  - Power factor : 0.95
  - IP ratings : IP67
  - Type of protection : Class I
  - Thermally protection : 110 °C
  - Constant current type, Independent, SELV controlgear
  - With dimming wire, with dimming PCB(DA type) and without Rear cover(Plastic cap)
  - This product is filled with potting compound
  - Metal enclosure used

본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다.  
검토 담당자 : BK 전략본부 인증관리센터 이 용노 / (02)860-1423  
 *If you have any question on product review, please contact the person below :*  
*Job holder: BK Strategy Division Certification Management Center, Y.R.LEE/+82 2 8601-423*

FP511-05

**첨부 3 : 안전인증의 변경 현황**  
Revisions Status

변경발급 내용  
Contents of Certificate Revisions

Not applicable

FP511-06

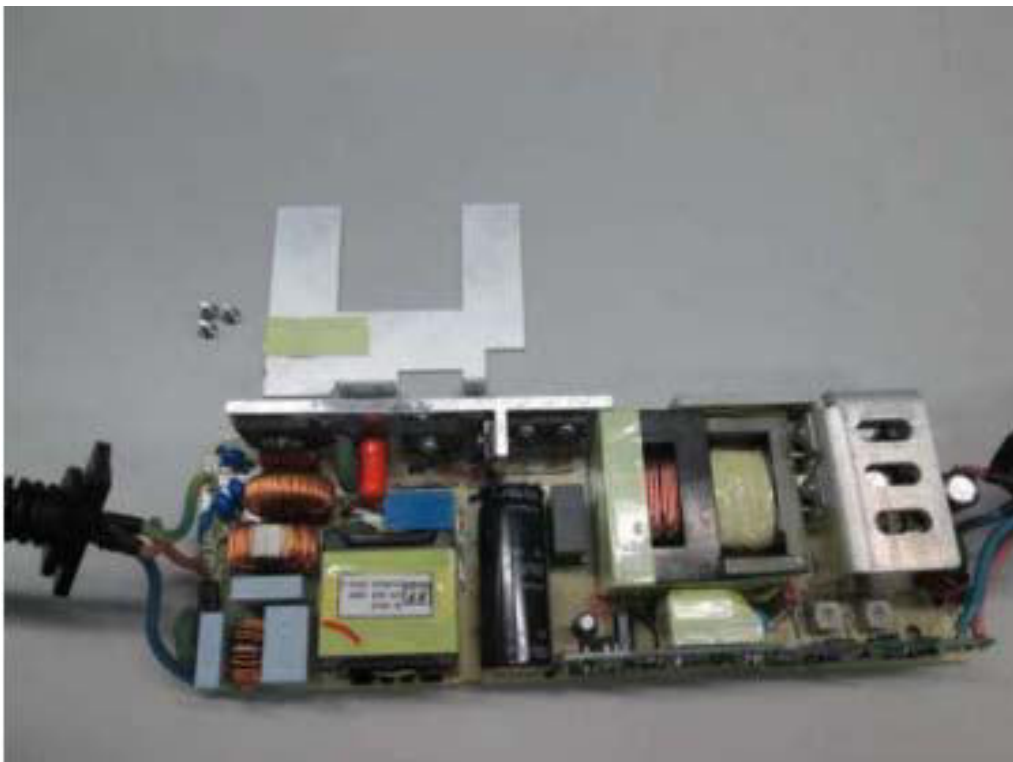


첨부 : 제품사진  
Photographs

<사진 1>



<사진 2>



접 수 번 호 : 23-055470-02-1  
(Receipt No.)



# 안전인증서

## Safety Certificate

안전인증번호 : SU11358-18014C  
(Certificate No.)

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

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

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

기본모델명 : ELGC-300-L-DA  
(Basic Model)

파생모델명 : See the attachment 2  
(Series Model)

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 328 W  
(Rating) (output : Max. DC 240 V, 1 400 mA)

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

본 인증서는 제조국명 : 중국  
제조업자명 : MEAN WELL (Guangzhou) Electronics Co.,Ltd.  
제조공장의 주소 : No.11 Jingu South Road, Huadu District, Guangzhou 510890  
, Guangdong, China  
의 제품에만 해당함

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

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

2023 년 09 월 05 일  
Year month day

한국산업기술시험원  
KOREA TESTING LABORATORY



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

첨부서류

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

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

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Input cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75 mm <sup>2</sup> -1.0mm <sup>2</sup>	AC 300 / 500 V, 3G x 1,0 mm <sup>2</sup>	KC
(Alternative)	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0mm <sup>2</sup> -4mm <sup>2</sup>	AC450 / 750 V, 3G x 1,0 mm <sup>2</sup>	KC
(Alternative)	DONGGUAN TAWANG ELECTRONICS CO LTD	K60245 IEC 57 H05RN-F 3G0.75mm <sup>2</sup> -1.0mm <sup>2</sup>	AC 300 / 500 V, 3G x 1.0 mm <sup>2</sup>	KC
Fuse (FS1)	Conquer	MST	T6,3 A, 250 V or AC 300 V	VDE / TUV
(Alternative)	Walter	2010	T6,3 A, 250 V or AC 300 V	VDE / TUV
(Alternative)	Littell	369	T6,3 A, 250 V or AC 300 V	VDE
Varistor (ZR1,ZR2)	Centra Science	CNR10D471K	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Centra Science	CNR14D471K	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Centra Science	CNR10D511K	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Centra Science	CNR14D511K	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Centra Science	CNR10D561K	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Centra Science	CNR14D561K	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Joyin	14S471K	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Joyin	14N471K	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Joyin	10S471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S511K	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Joyin	14N511K	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Joyin	10S511K	AC 320 V, DC 410 V, 85 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Joyin	14S561K	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Joyin	14N561K	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Joyin	10S561K	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR10561	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR14561	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR10561-D	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR14561-D	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR10561-V,	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR14561-V	AC 350 V, DC 450 V, 85 °C	VDE
(Alternative)	Thinking	TVR10511	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Thinking	TVR14511	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Thinking	TVR14511-V	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Thinking	TVR10511-V	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Thinking	TVR14511-D	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Thinking	TVR10511-D	AC 320 V, DC 410 V, 85 °C	VDE
(Alternative)	Thinking	TVR10471	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Thinking	TVR14471	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Thinking	TVR10471-V	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Thinking	TVR14471-V	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Thinking	TVR10471-D	AC 300 V, DC 385 V, 85 °C	VDE
(Alternative)	Thinking	TVR14471-D	AC 300 V, DC 385 V, 85 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Thinking	TVR10561-M	AC 350 V, DC 450 V, 125 °C	VDE
(Alternative)	Thinking	TVR14561-M	AC 350 V, DC 450 V, 125 °C	VDE
(Alternative)	Thinking	TVR14511-M	AC 320 V, DC 410 V, 125 °C	VDE
(Alternative)	Thinking	TVR10511-M	AC 320 V, DC 410 V, 125 °C	VDE
(Alternative)	Thinking	TVR10471-M	AC 300 V, DC 385 V, 125 °C	VDE
(Alternative)	Thinking	TVR14471-M	AC 300 V, DC 385 V, 125 °C	VDE
(Alternative)	Huiwan	V-511K- 10D(E)H,V- 511K-14D(E)H	AC 320V, DC 410V, Min. 125°C	VDE
X Capacitors (C1, C2)	Kemet (Arcotronics)	R.46	<b>Min. AC 250V</b> , Min. 100 °C, <b>Max. 1 uF</b>	ENEC
(Alternative)	Epcos	B3292#	<b>Min. AC 250V</b> , Min. 100 °C, <b>Max. 1 uF</b>	VDE
(Alternative)	Liow Gu	GS-L	<b>Min. AC 250V</b> , Min. 100 °C, <b>Max. 1 uF</b>	ENEC/ VDE
(Alternative)	Ultra Tech	HQX	<b>Min. AC 250V</b> , Min. 100 °C, <b>Max. 1 uF</b>	VDE
(Alternative)	HUA JUNG	MKP	<b>Min. AC 250V</b> , Min. 100 °C, <b>Max. 1 uF</b>	ENEC
(Alternative)	Carli Electronics	MPX	<b>Min. AC 250V</b> , Min. 100 °C, <b>Max. 1 uF</b>	VDE
(Alternative)	Joey	MPX	<b>Min. AC 250V</b> , Min. 100 °C, <b>Max. 1 uF</b>	VDE
(Alternative)	NISSEI	MP1	<b>Min. AC 250V</b> , Min. 100 °C, <b>Max. 1 uF</b>	VDE
Y-capacitor (C31)	Murata	KX	<b>Min. AC 250 V, Max. 2200 pF</b> , Min. 105 °C, Y1	VDE
(Alternative)	Walsin	AH	<b>Min. AC 250 V, Max. 2200 pF</b> , Min. 105 °C, Y1	VDE
(Alternative)	Walsin	AS	<b>Min. AC 250 V, Max. 2200 pF</b> , Min. 125 °C, Y1	VDE
(Alternative)	TDK	CD	<b>Min. AC 250 V, Max. 2200 pF</b> , Min. 105 °C, Y1	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	VISHAY	VY1	Min. AC 250 V, Max. 2200 pF, Min. 105 °C, Y1	VDE
(Alternative)	Huiwan	AR	Min. AC 250 V, Max. 2200 pF, Min. 125 °C, Y1	VDE
(Alternative)	Wanming	HJ	Min. AC 250 V, Max. 2200 pF, Min. 125 °C, Y1	VDE
Y-capacitor (C3, C4, C23, C30)	Murata	KX	Min. AC 250 V, Min. 105 °C, Y1, Max. 1500 pF	VDE
(Alternative)	Murata	KH, KY	Min. AC 250 V, Min. 105 °C, Y2, Max. 1500 pF	VDE
(Alternative)	Walsin	AH, AS	Min. AC 250 V, Min. 105 °C, Y1, Max. 1500 pF	VDE
(Alternative)	Walsin	AC	Min. AC 250 V, Min. 105 °C, Y2, Max. 1500 pF	VDE
(Alternative)	Walsin	AS	AC 500 V, Min. 105 °C, Y1, Max. 1500 pF	VDE
(Alternative)	TDK	CD	Min. AC 250 V, Min. 105 °C, Y1, Max. 1500 pF	VDE
(Alternative)	TDK	CS	Min. AC 250 V, Min. 105 °C, Y2, Max. 1500 pF	VDE
(Alternative)	VISHAY	VY1	Min. AC 250 V, Min. 105 °C, Y1, Max. 1500 pF	VDE
(Alternative)	Huiwan	AR	Min. AC 250 V, Min. 125 °C, Max. 1500 pF, Y1	VDE
(Alternative)	Huiwan	AB	Min. AC 250 V, Min. 125 °C, Max. 1500 pF, Y2	VDE
(Alternative)	Wanming	HM	Min. AC 250 V, Min. 125 °C, Y2, Max. 1500 pF	VDE
(Alternative)	Wanming	HJ	Min. AC 250 V, Min. 125 °C, Y1, Max. 1500 pF	VDE
PCB	Junda	JD-D, JD-E	V-1, 105 °C	Tested with appliance / UL
(Alternative)	Junda	JD-D1	Min.V-1, min130°C	UL
(Alternative)	Tai He	THS, THD	Min. V-1, Min. 130 °C	UL
(Alternative)	KIN YIP	DS-206T, ML-40 1	Min. V-0, Min. 130 °C	UL
(Alternative)	HONG SHIEN	03V-0, -D, -M	Min. V-0, 105 °C	UL
(Alternative)	HSU TZU	4V0, DV2, MV1	Min. V-0, 105 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	JIIN-YU	JY-001, JY-003	Min. V-0, 105 °C	UL
(Alternative)	SHANGHAI WANZHENG	SWZ-1	Min. V-1, 105 °C	UL
(Alternative)	GUANGDONG CHAOHUA	C-103, C-104	Min. V-1, 105 °C	UL
(Alternative)	GUANGDONG CHAOHUA	C-109	Min. V-1, Min. 130 °C	UL
(Alternative)	JIANGSU DIFEIDA	DFD-2	Min. V-0, Min. 130 °C	UL
(Alternative)	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, Min. 130 °C	UL
(Alternative)	CHANGZHOU AOHONG	AOH-2, AOH-8	Min. V-0, Min. 130 °C	UL
(Alternative)	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, Min. 130 °C	UL
Line Filter Choke (LF1)	MEAN WELL	TR-1010A	130 °C	Tested with appliance
Line Filter Choke (LF2)	MEAN WELL	TR-6207A	130 °C	Tested with appliance
Line Filter Choke (L1)	MEAN WELL	TF-6918	130 °C	Tested with appliance
Line Filter Choke (L2)	MEAN WELL	TR-6211	130 °C	Tested with appliance
Winding of LF1, L F2 and L1, L2	PACIFIC ELECTRIC WIRE & CABLE (SH ENZHEN) CO LTD.	UEW/U(MW 75- C), UEWN/U(MW 28- C), UEWS/U(MW 75-C)	130 °C	Tested with appliance, UL
(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD-NYU(MW 28- C)	130 °C	Tested with appliance, UL
(Alternative)	SHANGHAI ASIA P ACIFIC ELECTRI CO LTD.	UEW(MW 75-C), UEW-U(MW 75- C), UEW/NY(MW 28- C)	130 °C	Tested with appliance, UL
(Alternative)	JUNG SHING WIRE CO LTD.	UEY-2@(MW 28- C), UEW- 4@(MW 75-C)	130 °C	Tested with appliance, UL
(Alternative)	TA YA ELECTRIC WI RE & CABLE CO LT D.	TYTUN- B130(UEWNY/Q( A/X)- B,F)(MW 28-C)	130 °C	Tested with appliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	TAI- I ELECTRIC WIRE & CABLE CO LTD.	UEWE(MW 28-C)	130 °C	Tested with appliance, UL
(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WI RE FACTORY.	UEWN(MW 28-C)	130 °C	Tested with appliance, UL
(Alternative)	FENG CHING META L CORP.	xUEW- NY(MW 28-C)	130 °C	Tested with appliance, UL
(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SH ENZHEN) CO LTD.	UEWN/U(MW 80- C), UEFN/U(MW 80- C)	155 °C	Tested with appliance, UL
(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY(MW 80- C)	155 °C	Tested with appliance, UL
(Alternative)	SHANGHAI ASIA P ACIFIC ELECTRI CO LTD.	UEW(MW 79-C), UEW/NY(MW 80- C)	155 °C	Tested with appliance, UL
(Alternative)	JUNG SHING WIRE CO LTD.	SFBY- 2@(a)(MW 80- C), SFFW- 2@(MW 79-C), SFBW- 2@(MW 79-C)	155 °C	Tested with appliance, UL
(Alternative)	TA YA ELECTRIC WI RE & CABLE CO LT D.	TYTUN- B130(UEWNY/Q( A/X)- B,F)(MW 80-C)	155 °C	Tested with appliance, UL
(Alternative)	TA YA ELECTRIC WI RE & CABLE CO LT D.	TYFU- H180(UEW/QA- H) (MW 82-C)	180 °C	Tested with appliance, UL
(Alternative)	TAI- I ELECTRIC WIRE & CABLE CO LTD.	UEWF-E(MW 80- C)	155 °C	Tested with appliance, UL
(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WI RE FACTORY.	UEWNF(MW 80- C)	155 °C	Tested with appliance, UL
(Alternative)	FENG CHING META L CORP	xFSW- NY(MW 80-C)	155 °C	Tested with appliance, UL
Bobbin of T1, T50 0	Sumitomo Bakelite Co., Ltd.	PM- 9820, PM -9630	V-0, Phenolic, 150 °C	Tested with appliance, UL



부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL
(Alternative)	SUMITOMO BAKELITE CO LTD.	PM-9750	155 °C	UL
(Alternative)	SUMITOMO BAKELITE CO LTD.	PM-9823	155 °C	UL
(Alternative)	NAN YA	1403G3, 1403G6	V-0, 130 °C	UL
(Alternative)	CHANG CHUN PLASTICS CO LTD	T375J,T375HF	V-0, 150 °C	UL
(Alternative)	SUMITOMO CHEMICAL CO LTD	E4008	130 °C	UL
Triple insulation wire of T1, T500	Furukawa	TEX-E, TEX-ELZ	130 °C	Tested with appliance, UL
(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-2X, TIW-2SX	130 °C	UL
(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-3X	155 °C	UL
(Alternative)	Great Leoflon Industrial Co Ltd	TRW(B)- M	130 °C	UL
(Alternative)	Great Leoflon Industrial Co Ltd	TRW(F)-M	155 °C	UL
Winding of transformer (T1, T500)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U@ (MW 75-C)	130 °C	Tested with appliance, UL
(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD-NYU(MW 28-C)	130 °C	Tested with appliance, UL
(Alternative)	SHANGHAI ASIA PACIFIC ELECTRIC CO LTD.	UEW(MW75-C), UEW-U(MW 75-C), UEW/NY(MW 28-C)	130 °C	Tested with appliance, UL
(Alternative)	JUNG SHING WIRE CO LTD.	UEY-2@(MW 28-C), UEW-4@(MW 75-C)	130 °C	Tested with appliance, UL
(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 28-C)	130 °C	Tested with appliance, UL
(Alternative)	TAI-I ELECTRIC WIRE & CABLE CO LTD.	UEWE(MW 28-C)	130 °C	Tested with appliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWN(MW 28-C)	130 °C	Tested with appliance, UL
(Alternative)	FENG CHING METAL CORP.	xUEW-NY(MW 28-C)	130 °C	Tested with appliance, UL
(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEWN/U(MW 80-C), UEFN/U(MW 80-C)	155 °C	Tested with appliance, UL
(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY(MW 80-C)	155 °C	Tested with appliance, UL
(Alternative)	SHANGHAI ASIA PACIFIC ELECTRIC CO LTD.	UEW(MW 79-C), UEW/NY(MW 80-C)	155 °C	Tested with appliance, UL
(Alternative)	JUNG SHING WIRE CO LTD.	SFBY-2@(a) (MW 80-C), SFFW-2@ (MW 79-C), SFBW-2@ (MW 79-C)	155 °C	Tested with appliance, UL
(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 80-C)	155 °C	Tested with appliance, UL
(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYFU-H180(UEW/QA-H) (MW 82-C)	180 °C	Tested with appliance, UL
(Alternative)	TAI-ELECTRIC WIRE & CABLE CO LTD.	UEWF-E(MW 80-C)	155 °C	Tested with appliance, UL
(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWNF(MW 80-C)	155 °C	Tested with appliance, UL
(Alternative)	FENG CHING METAL CORP	xFSW-NY(MW 80-C)	155 °C	Tested with appliance, UL
Teflon tube	Great Holding Industrial Co., Ltd.	TFL,TFT,TFS	200 °C	Tested with appliance, UL
(Alternative)	ZEUS INDUSTRIAL PRODUCTS INC.	TFE-TW-300, TFE-SW-600	200 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	CHANGYUAN ELECTRONICS GROUP CO LTD	CB-HFT, CB-HFT(XY), CYG-MT, CB-TT-L, CB-TT-S, CB-TT-T, CYG-ZHP	200 °C	UL
Insulation tape of T1, T500	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1351-1(a), 1351-2(c), 1351T-1(a), 1351T-2(a), 1351T-3(a)	130 °C	Tested with appliance, UL
(Alternative)	BONDTEC PACIFIC CO LTD.	No 370S(b), No371F(a)	130 °C	UL
(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1350F-1(b), 1350T-1(b), 1350T-3(b), 1318-1	130 °C	UL
(Alternative)	Symbio Inc.	MY9YAF(h), 35660Y(e), 35660(a), 35661(c),	130 °C	UL
(Alternative)	JingjiangYahua	CT*(b)(g).PZ, WF	130 °C	UL
(Alternative)	E I DUPONT DE NE MOURS & CO INC	Nomex®410,411, 414, 418	220 °C	UL
(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	92	180 °C	UL
(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1318-1(a), 1350F-1(b), 1350T-1(b), 1350T-2(b), 1350T-3(b), 1351T-1(a), 1351T-2(a), 44(a), 56(a), , 44, 44D, 44D-A, 44-T, 44T-A	130 °C	UL
Transformer (T1)	MEAN WELL Enterprises Co., Ltd.	TF-6916	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6916	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6916	Class B	Tested with appliance

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6916	Class B	Tested with appliance
Transformer (T500)	MEAN WELL Enterprises Co., Ltd.	TF-6919	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6919	Class B	Tested with appliance
Photo coupler (U4, U5)	Lite-On	LTV-1006	Dti= 0,4 mm, Int. dcr.= 6,0mm, Ext. dcr.≥ 8,0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-1008	Dti= 0,4 mm, Int. dcr.= 6,0mm, Ext. dcr.≥ 8,0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-817	Dti= 0,4 mm, Int. cr= 5,2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Lite-On	LTV-817M	Dti= 0,4 mm, Int. cr= 5,2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Sharp	PC123	Dti= 0,4 mm, Int. cr= 5,2 mm, Ext. cr= 8,0 mm, 110 °C	VDE
(Alternative)	Cosmo	K1010	Dti= 0,5 mm, Int. cr= 5,3 mm,   Ext. cr = 8,0 mm, 115 °C	VDE
(Alternative)	Toshiba Corporation	TLP781F	Dti = 0,6 mm, Int. dcr.= 6,0 mm, Ext. dcr.≥ 8,0 mm, 115 °C	VDE
(Alternative)	Everlight	EL817M	Dti = 0,4 mm, Int. dcr.= 6,0 mm, Ext. dcr.≥ 8,0mm, min. 100 °C	VDE
(Alternative)	Lite-on	LTV-817S	Dti=0.4mm,Int.cr=5.2mm, Ext.cr.≥ 8.0 mm, 115°C	VDE
(Alternative)	VISHAY	TCLT1008	Dti=0.43mm Ext.dcr.≥ 8.0 mm, 110°C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	CT-Micro	CT817	Dti=0.4mm,Int.cr=5.3mm, Ext.cr.≥ 8.0 mm, Min. 100°C	VDE
(Alternative)	Toshiba	TLP2701	Dti=0.4mm Ext.cr.≥ 8.0 mm, 125°C	VDE
Potting compound	Guangzhou Huitian New Chemical Ltd.	5299,5297	V-0, 150 °C	Tested with appliance / UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B H	V-0, 150 °C	UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B	V-0, 150 °C	UL
(Alternative)	DOW CORNING CORP	SYLGARD 160	V-0, 150 °C	UL
(Alternative)	U-Bond	UB-5203A/ UB-5203B	V-0, 150 °C	UL
(Alternative)	LINKTECH	EncapSil 1400	V-0,150°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)
ELGC-300-L	Without dimming wire and without dimming PCB
ELGC-300-L-A	Without dimming wire, without dimming PCB and with Rear cover(Plastic cap)
ELGC-300-L-B	Dimming PCB (B type)
ELGC-300-L-AB	Dimming PCB (B type) and with Rear cover(Plastic cap)
ELGC-300-L-D2	Dimming PCB (D type)
ELGC-300-L-AD2	Dimming PCB (D type) and with Rear cover(Plastic cap)
ELGC-300-L-ADA	With Rear cover(Plastic cap)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Review Ref. No.: 18-075021-05-2 (2019.04.26.)</p> <p>2. Product Description:</p> <ul style="list-style-type: none"> <li>- Rated input : AC 100-240 V, 50/60 Hz, 328 W, 3 A</li> <li>- Rated output current (<math>I_{rated}</math>) : 1 400 mA</li> <li>- Rated output power (<math>P_{rated}</math>) : 301.6 W</li> <li>- Maximum output voltage(U-OUT) : DC 240 V</li> <li>- tc: 85 °C, ta : 40 °C</li> <li>- Power factor : 0.95</li> <li>- IP ratings : IP67</li> <li>- Type of protection : Class I</li> <li>- Thermally protection : 110 °C</li> <li>- Constant current type, Independent, Isolating controlgear</li> <li>- With dimming wire, with dimming PCB(DA type) and without Rear cover(Plastic cap)</li> <li>- This product is filled with potting compound</li> <li>- Metal enclosure used</li> </ul>	
<p>□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다.            검토 담당자 / 연락처 : 고객지원본부 인증융합평가센터 신 중욱 / 02-860-1473</p> <p>□ If you have any question on product review, please contact the person below :            Job holder: Customer Support Division, Certification Convergence Evaluation Center, J.U.Shin / +82 2 860-1473</p>	

FP511-05

□ 첨부 3 : 안전인증의 변경 현황  
Revisions Status

변경발급 내용 Contents of Certificate Revisions		
1 <sup>st</sup> Rev.) Change of PCB layout and Addition of components (21-058991-03-1 : 2021.10.15.)		
- PCB layout: Added copper foil around the component holes for fixing components better.		
- Added materials of choke and transformer		
- Addition ;		
Components	Manufacturer	Model
Varistor (ZR1, ZR2)	Huiwan	V-511K-10D(E)H, V-511K-14D(E)H
X-capacitor (C1, C2)	NISSEI	MP1
Y-capacitor (C31)	Huiwan	AR
	Wanming	HJ
	Walsin	AS
Y-capacitor (C3, C4, C23, C30)	Huiwan	AR
	Huiwan	AB
	Wanming	HM
	Wanming	HJ
PCB	Junda	JD-D1
	GUANGDONG CHAOHUA	C-109
	LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A
	JIANGSU DIFEIDA	DFD-2
	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S
	RONG HUI	RH-3
	CHANGZHOU AOHONG	AOH-2, AOH-8
	CHANGZHOU HAIHONG	CCE-V0, HDCEM1
	Photo coupler (U4,U5)	Lite-on
VISHAY		TCLT1008
CT-Micro		CT817
Toshiba		TLP2701
Potting compound	LINKTECH	Encapsil 1400
2 <sup>nd</sup> Rev.) Change name, president and address of manufacturer (21-080534-19-1 : 2022.01.04.)		
- Before : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China		
After : MEAN WELL (Guangzhou) Electronics Co.,Ltd. / Aden Wang No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China		

변경발급 내용  
Contents of Certificate Revisions

3<sup>rd</sup> Rev.) change, addition of critical components and update of KC standards  
(23-55470-02-1 : 2023.09.05.)

based on CB certificate of NL-90170 and CB report of 4907208.50.

- Add critical components.

Components	Manufacturer	Model
PCB	Tai He	THS, THD
	KIN YIP	DS-206T, ML-401

- Change of components

1. Delete "R.49" "KNB1530" "KNB1560" "PCX2 335" "PCX2 337" "SX1" "MKP62" "LE" from X Capacitors (C1, C2)
2. X Capacitors (C1, C2) rating update: Min. AC 250V, Max. 1 uF
3. Delete "WD" "WKP" "440L" "338 6" "F1710" from Y-capacitor (C31)
4. Y-capacitor (C31) rating update: Min. AC 250V, Max. 2200pF
5. Delete "WD" "WKP" "440L" "338 6" "KL" from Y-capacitor (C3, C4, C23, C30)
6. Y-capacitor (C3, C4, C23, C30) rating update: Min. AC 250V, Max. 1500pF
7. Delete "GUANGZHOU TAIHE" "Brite Plus" "HSIANG KUO" "LOMBER CITCUITS" "RONG HUI" from PCB
8. Delete "TC 6011" "SSTCP" from Potting compound
9. Update of KC standards to "KC61347-1(2022-02), KC61347-2-13(2022-02)"



접수번호 : 21-080534-19-1  
(Receipt No.)



# 안전인증서

## Safety Certificate

안전인증번호 : SU11358-18014B  
(Certificate No.)

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

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

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

기본모델명 : ELGC-300-L-DA  
(Basic Model)

파생모델명 : See the attachment 2  
(Series Model)

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 328 W  
(Rating) (output : Max. DC 240 V, 1 400 mA)

시험기준 : KC61347-1(2015-09), KC61347-2-13(2015-09)  
(Standard)

본 인증서는 제조국명 : 중국  
제조업자명 : MEAN WELL (Guangzhou) Electronics Co.,Ltd.  
제조공장의 주소 : No.11 Jingu South Road, Huadu District, Guangzhou 510890  
, Guangdong, China  
의 제품에만 해당함

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

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

2022 년 01 월 04 일  
Year month day

한국산업기술시험원  
KOREA TESTING LABORATORY



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

첨부서류

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

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

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Input cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75mm <sup>2</sup> -1.0mm <sup>2</sup>	AC 300 / 500 V, 3G x 1.0 mm <sup>2</sup>	KC
(Alternative)	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0mm <sup>2</sup> -4mm <sup>2</sup>	AC450 / 750 V, 3G x 1.0 mm <sup>2</sup>	KC
Fuse (FS1)	Conquer	MST	T6.3 A, 250 V or AC 300 V	VDE, TUV
(Alternative)	Walter	2010	T6.3 A, 250 V or AC 300 V	VDE, TUV
(Alternative)	Littelfuse	369	T6.3 A, 250 V or AC 300 V	VDE
Varistor (ZR 1, ZR2)	Centra Science	CNR10D471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR10D511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR10D561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S561K	AC 350 V, DC 450 V, Min. 85 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Thinking	TVR10561	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14561	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10561-D	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14561-D	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10561-V,	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14561-V	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10511	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14511	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14511-V	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10511-V	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14511-D	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10511-D	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10471	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14471	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10471-V	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14471-V	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10471-D	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14471-D	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10561-M	AC 350 V, DC 450 V, 125 ℃	VDE
(Alternative)	Thinking	TVR14561-M	AC 350 V, DC 450 V, 125 ℃	VDE
(Alternative)	Thinking	TVR14511-M	AC 320 V, DC 410 V, 125 ℃	VDE
(Alternative)	Thinking	TVR10511-M	AC 320 V, DC 410 V, 125 ℃	VDE
(Alternative)	Thinking	TVR10471-M	AC 300 V, DC 385 V, 125 ℃	VDE
(Alternative)	Thinking	TVR14471-M	AC 300 V, DC 385 V, 125 ℃	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Huiwan	V-511K-10D(E)H, V-511K-14D(E)H	AC 320 V, DC 410 V, Min. 125 °C	VDE
X Capacitors (C1, C2)	Kemet (Arcotronics)	R.46	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Kemet (Arcotronics)	R.49	Min. AC 310 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Epcos	B3292#	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Iskra	KNB1530	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Iskra	KNB1560	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Liow Gu	GS-L	AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Pilkor	PCX2 335	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Pilkor	PCX2 337	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Ultra Tech	HQX	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Shiny Space	SX1	AC 300 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	HUA JUNG	MKP	AC 305 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Carli Electronics	MPX	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Joey	MPX	AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Xiamen Faratronic	MKP62	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Okaya	LE	Min. AC 250 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	NISSEI	MP1	Min. AC 275 V, 100 °C C1=0.47 uF, C2=1 uF	VDE
Y-capacitor (C31)	Murata	KX	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Walsin	AH	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	TDK	CD	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Welson	WD	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	VY1	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	WKP	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	440L	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Vishay	338 6, F1710	AC 300 V, 1 000 pF, Min. 105 °C, Y1	ENEC
(Alternative)	Walsin	AS	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Huiwan	AR	AC 500 V, 1 000 pF, Min. 125 °C, Y1	VDE
(Alternative)	Wanming	HJ	Min. AC 250 V, 1 000 pF, Min. 125 °C, Y1	VDE
Y-capacitor (C3, C4, C23, C30)	Murata	KX	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Murata	KH, KY	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AH, AS	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AC	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AS	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	TDK	CD	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	TDK	CS	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Welson	WD	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Welson	KL	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	VY1	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	WKP	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	440L	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	338 6	AC 300 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	ENEC
(Alternative)	Huiwan	AR	AC 500 V, Min. 125 °C, C3=C4=C30=1 000 pF, C23=100 pF, Y1	VDE
(Alternative)	Huiwan	AB	AC 300 V, Min. 125 °C, C3=C4=C30=1 000 pF, C23=100 pF, Y2	VDE
(Alternative)	Wanming	HM	Min. AC 250 V, Min. 125 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Wanming	HJ	Min. AC 250 V, Min. 125 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
PCB	Junda	JD-D,JD-E	V-1, 105 °C	Tested with appliance, UL
(Alternative)	Junda	JD-D1	Min. V-1, Min. 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
(Alternative)	GUANGZHOU TAIHE	THS, THD	V-1, 105 ℃	UL
(Alternative)	HONG SHIEN	03V-0, -D, -M	V-1, 105 ℃	UL
(Alternative)	HSU TZU	4V0, DV2, MV1	V-1, 105 ℃	UL
(Alternative)	JIIN-YU	JY-001, JY-003	V-1, 105 ℃	UL
(Alternative)	Brite Plus	DGV0-3A	V-1, 105 ℃	UL
(Alternative)	HSIANG KUO	76V0A	V-1, 105 ℃	UL
(Alternative)	SHANGHAI WANZHENG	SWZ-1	V-1, 105 ℃	UL
(Alternative)	GUANGDONG CHAOHUA	C-103, C-104	V-1, 105 ℃	UL
(Alternative)	GUANGDONG CHAOHUA	C-109	Min. V-1, Min. 130 ℃	UL
(Alternative)	LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A	Min. V-1, Min. 130 ℃	UL
(Alternative)	JIANGSU DIFEIDA	DFD-2	Min. V-0, Min. 130 ℃	UL
(Alternative)	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, Min. 130 ℃	UL
(Alternative)	RONG HUI	RH-3	Min. V-0, Min. 130 ℃	UL
(Alternative)	CHANGZHOU AOHONG	AOH-2, AOH-8	Min. V-0, Min. 130 ℃	UL
(Alternative)	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, Min. 130 ℃	UL
Line Filter Choke (LF1)	MEAN WELL	TR-1010A	130 ℃	Tested with appliance
Line Filter Choke (LF2)	MEAN WELL	TR-6207A	130 ℃	Tested with appliance
Line Filter Choke (L1)	MEAN WELL	TF-6918	130 ℃	Tested with appliance
Line Filter Choke (L2)	MEAN WELL	TR-6211	130 ℃	Tested with appliance
-Winding of LF1, LF2 and L1, L2	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U(MW 75-C), UEWN/U(MW 28-C), UEWS/U(MW75-C)	130 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD-NYU(MW 28-C)	130 ℃	Tested with appliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 75-C), UEW-U(MW 75-C), UEW/NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	UEY-2@(MW 28-C), UEW-4@(MW 75-C)	130 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	TAI- I ELECTRIC WIRE & CABLE CO LTD.	UEWE(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWN(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP.	xUEW-NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEWN/U(MW 80-C), UEFN/U(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 79-C), UEW/NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	SFBY-2@(a)(MW 80-C), SFFW-2@(MW 79-C), SFBW-2@(MW 79-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYFU-H180(UEW/QA-H)(MW 82-C)	180 ℃	Tested with appliance, UL
-(Alternative)	TAI- I ELECTRIC WIRE & CABLE CO LTD.	UEWF-E(MW 80-C)	155 ℃	Tested with appliance, UL



부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWNF(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP	xFSW-NY(MW 80-C)	155 ℃	Tested with appliance, UL
Transformer (T1)	MEAN WELL Enterprises Co., Ltd.	TF-6916	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6916	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6916	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6916	Class B	Tested with appliance
Transformer (T500)	MEAN WELL Enterprises Co., Ltd.	TF-6919	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6919	Class B	Tested with appliance
-Bobbin of T1, T500	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 ° C	Tested with appliance, UL
-(Alternative)	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL
-(Alternative)	SUMITOMO BAKELITE CO LTD.	PM-9750	155 ℃	UL
-(Alternative)	SUMITOMO BAKELITE CO LTD.	PM-9823	155 ℃	UL
-(Alternative)	NAN YA	1403G3, 1403G6	V-0, 130 ℃	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	CHANG CHUN PLASTICS CO LTD	T375J, T375HF	V-0, 150 ℃	UL
-(Alternative)	SUMITOMO CHEMICAL CO LTD	E4008	130 ℃	UL
-Triple insulation wire of T1, T500	Furukawa	TEX-E, TEX-ELZ	130 ℃	Tested with appliance, UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-2X, TIW-2SX	130 ℃	UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-3X	155 ℃	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(B)- M	130 ℃	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(F)-M	155 ℃	UL
-Winding of transformer (T1, T500)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U@ (MW 75-C)	130 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD-NYU(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW75-C), UEW-U(MW 75-C), UEW/NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	UEY-2@(MW 28-C), UEW-4@(MW 75-C)	130 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN- B130(UEWNY/Q(A/X)- B,F)(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	TAI- I ELECTRIC WIRE & CABLE CO LTD.	UEWE(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWN(MW 28-C)	130 ℃	Tested with appliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	FENG CHING METAL CORP.	xUEW-NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEWN/U(MW 80-C), UEFN/U(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 79-C), UEW/NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	SFBY-2@(a) (MW 80-C), SFFW-2@ (MW 79-C), SFBW-2@ (MW 79-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYFU-H180(UEW/QA-H)(MW 82-C)	180 ℃	Tested with appliance, UL
-(Alternative)	TAI- I ELECTRIC WIRE & CABLE CO LTD.	UEWF-E(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWNF(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP	xFSW-NY(MW 80-C)	155 ℃	Tested with appliance, UL
-Teflon tube	Great Holding Industrial Co., Ltd.	TFL,TFT,TFS	200 ℃	Tested with appliance, UL
-(Alternative)	ZEUS INDUSTRIAL PRODUCTS INC.	TFE-TW-300, TFE-SW-600	200 ℃	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	CHANGYUAN ELECTRONICS GROUP CO LTD	CB-HFT, CB-HFT(XY), CYG-MT, CB-TT-L, CB-TT-S, CB-TT-T, CYG-ZHP	200 °C	UL
-Insulation tape of T1, T500	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1351-1(a), 1351-2(c), 1351T-1(a), 1351T- 2(a), 1351T-3(a)	130 °C	Tested with appliance, UL
-(Alternative)	BONDTEC PACIFIC CO LTD.	No 370S(b), No371F(a)	130 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1350F-1(b), 1350T- 1(b), 1350T-3(b), 1318-1	130 °C	UL
-(Alternative)	Symbio Inc.	MY9YAF(h), 35660Y(e), 35660(a), 35661(c),	130 °C	UL
-(Alternative)	JingjiangYahua	CT*(b)(g).PZ, WF	130 °C	UL
-(Alternative)	E I DUPONT DE NEMOURS & CO INC	Nomex®410,411, 414, 418	220 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	92	180 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1318-1(a), 1350F- 1(b), 1350T-1(b), 1350T-2(b), 1350T- 3(b), 1351T-1(a), 1351T-2(a), 44(a), 56(a), 44, 44D, 44D- A, 44-T, 44T-A	130 °C	UL
Photo coupler (U4, U5)	Lite-On	LTV-1006	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-1008	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr.≥ 8.0mm, min. 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
(Alternative)	Lite-On	LTV-817	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Lite-On	LTV-817M	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Sharp	PC123	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext. cr= 8.0 mm, 110 °C	VDE
(Alternative)	Cosmo	K1010	Dti= 0.5 mm, Int. cr= 5.3 mm,   Ext. cr = 8.0 mm, 115 °C	VDE
(Alternative)	Toshiba Corporation	TLP781F	Dti = 0.6 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0 mm, 115 °C	VDE
(Alternative)	Everlight	EL817M	Dti = 0.4 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-817S	Dti=0.4 mm, Int.cr=5.2 mm, Ext.cr.≥ 8.0 mm, 115 °C	VDE
(Alternative)	VISHAY	TCLT1008	Dti=0.43 mm, Ext.dcr.≥ 8.0 mm, 110 °C	VDE
(Alternative)	CT-Micro	CT817	Dti=0.4 mm, Int.cr=5.3 mm, Ext.cr.≥ 8.0 mm, Min. 100 °C	VDE
(Alternative)	Toshiba	TLP2701	Dti=0.4 mm, Ext.cr.≥ 8.0 mm, 125 °C	VDE
Potting compound	Guangzhou Huitian New Chemical Ltd.	5299,5297	V-0, 150 °C	Tested with appliance, UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B H	V-0, 150 °C	UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B	V-0, 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
(Alternative)	DOW CORNING CORP	SYLGARD 160	V-0, 150 °C	UL
(Alternative)	DOW CORNING CORP	TC-6011	V-0, 150 °C	UL
(Alternative)	U-Bond	UB-5203A/ UB-5203B	V-0, 150 °C	UL
(Alternative)	Riseast	SSTCP	V-0, 150 °C	UL
(Alternative)	LINKTECH	EncapSil 1400	V-0, 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.*

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)
ELGC-300-L	Without dimming wire and without dimming PCB
ELGC-300-L-A	Without dimming wire, without dimming PCB and with Rear cover(Plastic cap)
ELGC-300-L-B	Dimming PCB (B type)
ELGC-300-L-AB	Dimming PCB (B type) and with Rear cover(Plastic cap)
ELGC-300-L-D2	Dimming PCB (D type)
ELGC-300-L-AD2	Dimming PCB (D type) and with Rear cover(Plastic cap)
ELGC-300-L-ADA	With Rear cover(Plastic cap)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Review Ref. No.: 18-075021-05-2 (2019.04.26.)</p> <p>2. Product Description:</p> <ul style="list-style-type: none"> <li>- Rated input : AC 100-240 V, 50/60 Hz, 328 W, 3 A</li> <li>- Rated output current (<math>I_{rated}</math>) : 1 400 mA</li> <li>- Rated output power (<math>P_{rated}</math>) : 301.6 W</li> <li>- Maximum output voltage(U-OUT) : DC 240 V</li> <li>- tc: 85 °C, ta : 40 °C</li> <li>- Power factor : 0.95</li> <li>- IP ratings : IP67</li> <li>- Type of protection : Class I</li> <li>- Thermally protection : 110 °C</li> <li>- Constant current type, Independent, Isolating controlgear</li> <li>- With dimming wire, with dimming PCB(DA type) and without Rear cover(Plastic cap)</li> <li>- This product is filled with potting compound</li> <li>- Metal enclosure used</li> </ul>	
<p>□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토 담당자 / 연락처 : 고객지원본부 인증융합평가팀 신 종욱 / 02-8601-1437</p> <p>□ If you have any question on product review, please contact the person below : Job holder: Customer Support Division, Certification Convergence Evaluation Team, J.U.Shin / +82 2 860-1437</p>	

FP511-05

□ 첨부 3 : 안전인증의 변경 현황  
Revisions Status

변경발급 내용 Contents of Certificate Revisions		
1 <sup>st</sup> Rev.) Change of PCB layout and Addition of components (21-058991-03-1 : 2021.10.15.)		
- PCB layout: Added copper foil around the component holes for fixing components better.		
- Added materials of choke and transformer		
- Addition :		
Components	Manufacturer	Model
Varistor (ZR1, ZR2)	Huiwan	V-511K-10D(E)H, V-511K-14D(E)H
X-capacitor (C1, C2)	NISSEI	MP1
Y-capacitor (C31)	Huiwan	AR
	Wanming	HJ
	Walsin	AS
Y-capacitor (C3, C4, C23, C30)	Huiwan	AR
	Huiwan	AB
	Wanming	HM
	Wanming	HJ
PCB	Junda	JD-D1
	GUANGDONG CHAOHUA	C-109
	LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A
	JIANGSU DIFEIDA	DFD-2
	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S
	RONG HUI	RH-3
	CHANGZHOU AOHONG	AOH-2, AOH-8
	CHANGZHOU HAIHONG	CCE-V0, HDCEM1
Photo coupler (U4,U5)	Lite-on	LTV-817S
	VISHAY	TCLT1008
	CT-Micro	CT817
	Toshiba	TLP2701
Potting compound	LINKTECH	Encapsil 1400
2 <sup>nd</sup> Rev.) Change name, president and address of manufacturer (21-080534-19-1 : 2022.01.04.)		
- Before : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch / Yin Xiao Ming No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China		
After : MEAN WELL (Guangzhou) Electronics Co.,Ltd. / Aden Wang No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China		

FP511-06



접 수 번 호 : 21-058991-03-1  
(Receipt No.)



# 안 전 인 증 서

## Safety Certificate

안 전 인 증 번 호 : SU11358-18014A  
(Certificate No.)

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

주 소 : No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou,  
(Address) : P.R. China

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

기 본 모 델 명 : ELGC-300-L-DA  
(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, 328 W  
(Rating) : (output : Max. DC 240 V, 1 400 mA)

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

본 인증서는 제조국명 : 중국  
제조업자명 : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch  
제조공장의 주소 : No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China  
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.

2021 년 10 월 15 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.

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

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

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Input cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75mm2-1.0mm2	AC 300 / 500 V, 3G x 1.0 mm <sup>2</sup>	KC
(Alternative)	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0mm2-4mm2	AC450 / 750 V, 3G x 1.0 mm <sup>2</sup>	KC
Fuse (FS1)	Conquer	MST	T6.3 A, 250 V or AC 300 V	VDE, TUV
(Alternative)	Walter	2010	T6.3 A, 250 V or AC 300 V	VDE, TUV
(Alternative)	Littelfuse	369	T6.3 A, 250 V or AC 300 V	VDE
Varistor (ZR 1, ZR2)	Centra Science	CNR10D471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR10D511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR10D561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S561K	AC 350 V, DC 450 V, Min. 85 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Thinking	TVR10561	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14561	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10561-D	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14561-D	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10561-V,	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14561-V	AC 350 V, DC 450 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10511	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14511	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14511-V	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10511-V	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14511-D	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10511-D	AC 320 V, DC 410 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10471	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14471	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10471-V	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14471-V	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10471-D	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR14471-D	AC 300 V, DC 385 V, Min. 85 ℃	VDE
(Alternative)	Thinking	TVR10561-M	AC 350 V, DC 450 V, 125 ℃	VDE
(Alternative)	Thinking	TVR14561-M	AC 350 V, DC 450 V, 125 ℃	VDE
(Alternative)	Thinking	TVR14511-M	AC 320 V, DC 410 V, 125 ℃	VDE
(Alternative)	Thinking	TVR10511-M	AC 320 V, DC 410 V, 125 ℃	VDE
(Alternative)	Thinking	TVR10471-M	AC 300 V, DC 385 V, 125 ℃	VDE
(Alternative)	Thinking	TVR14471-M	AC 300 V, DC 385 V, 125 ℃	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Huiwan	V-511K-10D(E)H, V-511K-14D(E)H	AC 320 V, DC 410 V, Min. 125 °C	VDE
X Capacitors (C1, C2)	Kemet (Arcotronics)	R.46	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Kemet (Arcotronics)	R.49	Min. AC 310 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Epcos	B3292#	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Iskra	KNB1530	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Iskra	KNB1560	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Liow Gu	GS-L	AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Pilkor	PCX2 335	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Pilkor	PCX2 337	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Ultra Tech	HQX	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Shiny Space	SX1	AC 300 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	HUA JUNG	MKP	AC 305 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Carli Electronics	MPX	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Joey	MPX	AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Xiamen Faratronic	MKP62	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Okaya	LE	Min. AC 250 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	NISSEI	MP1	Min. AC 275 V, 100 °C C1=0.47 uF, C2=1 uF	VDE
Y-capacitor (C31)	Murata	KX	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Walsin	AH	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	TDK	CD	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Welson	WD	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	VY1	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	WKP	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	440L	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Vishay	338 6, F1710	AC 300 V, 1 000 pF, Min. 105 °C, Y1	ENEC
(Alternative)	Walsin	AS	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Huiwan	AR	AC 500 V, 1 000 pF, Min. 125 °C, Y1	VDE
(Alternative)	Wanming	HJ	Min. AC 250 V, 1 000 pF, Min. 125 °C, Y1	VDE
Y-capacitor (C3, C4, C23, C30)	Murata	KX	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Murata	KH, KY	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AH, AS	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AC	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AS	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	TDK	CD	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	TDK	CS	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Welson	WD	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Welson	KL	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	VY1	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	WKP	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	440L	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	338 6	AC 300 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	ENEC
(Alternative)	Huiwan	AR	AC 500 V, Min. 125 °C, C3=C4=C30=1 000 pF, C23=100 pF, Y1	VDE
(Alternative)	Huiwan	AB	AC 300 V, Min. 125 °C, C3=C4=C30=1 000 pF, C23=100 pF, Y2	VDE
(Alternative)	Wanming	HM	Min. AC 250 V, Min. 125 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Wanming	HJ	Min. AC 250 V, Min. 125 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
PCB	Junda	JD-D,JD-E	V-1, 105 °C	Tested with appliance, UL
(Alternative)	Junda	JD-D1	Min. V-1, Min. 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
(Alternative)	GUANGZHOU TAIHE	THS, THD	V-1, 105 °C	UL
(Alternative)	HONG SHIEN	03V-0, -D, -M	V-1, 105 °C	UL
(Alternative)	HSU TZU	4V0, DV2, MV1	V-1, 105 °C	UL
(Alternative)	JIIN-YU	JY-001, JY-003	V-1, 105 °C	UL
(Alternative)	Brite Plus	DGV0-3A	V-1, 105 °C	UL
(Alternative)	HSIANG KUO	76V0A	V-1, 105 °C	UL
(Alternative)	SHANGHAI WANZHENG	SWZ-1	V-1, 105 °C	UL
(Alternative)	GUANGDONG CHAOHUA	C-103, C-104	V-1, 105 °C	UL
(Alternative)	GUANGDONG CHAOHUA	C-109	Min. V-1, Min. 130 °C	UL
(Alternative)	LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A	Min. V-1, Min. 130 °C	UL
(Alternative)	JIANGSU DIFEIDA	DFD-2	Min. V-0, Min. 130 °C	UL
(Alternative)	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S	Min. V-0, Min. 130 °C	UL
(Alternative)	RONG HUI	RH-3	Min. V-0, Min. 130 °C	UL
(Alternative)	CHANGZHOU AOHONG	AOH-2, AOH-8	Min. V-0, Min. 130 °C	UL
(Alternative)	CHANGZHOU HAIHONG	CCE-V0, HDCEM1	Min. V-0, Min. 130 °C	UL
Line Filter Choke (LF1)	MEAN WELL	TR-1010A	130 °C	Tested with appliance
Line Filter Choke (LF2)	MEAN WELL	TR-6207A	130 °C	Tested with appliance
Line Filter Choke (L1)	MEAN WELL	TF-6918	130 °C	Tested with appliance
Line Filter Choke (L2)	MEAN WELL	TR-6211	130 °C	Tested with appliance
-Winding of LF1, LF2 and L1, L2	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U(MW 75-C), UEWN/U(MW 28-C), UEWS/U(MW75-C)	130 °C	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD-NYU(MW 28-C)	130 °C	Tested with appliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 75-C), UEW-U(MW 75-C), UEW/NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	UEY-2@(MW 28-C), UEW-4@(MW 75-C)	130 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	TAI-I ELECTRIC WIRE & CABLE CO LTD.	UEWE(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWN(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP.	xUEW-NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEWN/U(MW 80-C), UEFN/U(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 79-C), UEW/NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	SFBY-2@(a)(MW 80-C), SFFW-2@(MW 79-C), SFBW-2@(MW 79-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYFU-H180(UEW/QA-H)(MW 82-C)	180 ℃	Tested with appliance, UL
-(Alternative)	TAI-I ELECTRIC WIRE & CABLE CO LTD.	UEWF-E(MW 80-C)	155 ℃	Tested with appliance, UL



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-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWNF(MW 80-C)	155 °C	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP	xFSW-NY(MW 80-C)	155 °C	Tested with appliance, UL
Transformer (T1)	MEAN WELL Enterprises Co., Ltd.	TF-6916	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6916	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6916	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6916	Class B	Tested with appliance
Transformer (T500)	MEAN WELL Enterprises Co., Ltd.	TF-6919	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6919	Class B	Tested with appliance
-Bobbin of T1, T500	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 °C	Tested with appliance, UL
-(Alternative)	E I Dupont DE Nemours & Co., Inc.	FR530	V-0, PET, 155 °C	UL
-(Alternative)	SUMITOMO BAK ELITE CO LTD.	PM-9750	155 °C	UL
-(Alternative)	SUMITOMO BAK ELITE CO LTD.	PM-9823	155 °C	UL
-(Alternative)	NAN YA	1403G3, 1403G6	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
-(Alternative)	CHANG CHUN PLASTICS CO LTD	T375J,T375HF	V-0, 150 °C	UL
-(Alternative)	SUMITOMO CHEMICAL CO LTD	E4008	130 °C	UL
-Triple insulation wire of T1, T500	Furukawa	TEX-E, TEX-ELZ	130 °C	Tested with appliance, UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-2X, TIW-2SX	130 °C	UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-3X	155 °C	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(B)-M	130 °C	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(F)-M	155 °C	UL
-Winding of transformer (T1, T500)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U@ (MW 75-C)	130 °C	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DD(MW 75-C), DD-NYU(MW 28-C)	130 °C	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW75-C), UEW-U(MW 75-C), UEW/NY(MW 28-C)	130 °C	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	UEY-2@(MW 28-C), UEW-4@(MW 75-C)	130 °C	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN- B130(UEWNY/Q(A/X)- B,F)(MW 28-C)	130 °C	Tested with appliance, UL
-(Alternative)	TAI-I ELECTRIC WIRE & CABLE CO LTD.	UEWE(MW 28-C)	130 °C	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWN(MW 28-C)	130 °C	Tested with appliance, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	FENG CHING METAL CORP.	xUEW-NY(MW 28-C)	130 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEWN/U(MW 80-C), UEFN/U(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	PACIFIC ELECTRIC WIRE & CABLE CO LTD.	DDF-NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	SHANGHAI ASIA PACIFIC ELECTRI CO LTD.	UEW(MW 79-C), UEW/NY(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	JUNG SHING WIRE CO LTD.	SFBY-2@(a) (MW 80-C), SFFW-2@ (MW 79-C), SFBW-2@ (MW 79-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYTUN-B130(UEWNY/Q(A/X)-B,F)(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	TA YA ELECTRIC WIRE & CABLE CO LTD.	TYFU-H180(UEW/QA-H)(MW 82-C)	180 ℃	Tested with appliance, UL
-(Alternative)	TAI-I ELECTRIC WIRE & CABLE CO LTD.	UEWF-E(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	HUIZHOU GOLDEN OCEAN MAGNET WIRE FACTORY.	UEWNF(MW 80-C)	155 ℃	Tested with appliance, UL
-(Alternative)	FENG CHING METAL CORP	xFSW-NY(MW 80-C)	155 ℃	Tested with appliance, UL
-Teflon tube	Great Holding Industrial Co., Ltd.	TFL,TFT,TFS	200 ℃	Tested with appliance, UL
-(Alternative)	ZEUS INDUSTRIAL PRODUCTS INC.	TFE-TW-300, TFE-SW-600	200 ℃	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
-(Alternative)	CHANGYUAN ELECTRONICS GROUP CO LTD	CB-HFT, CB-HFT(XY), CYG-MT, CB-TT-L, CB-TT-S, CB-TT-T, CYG-ZHP	200 °C	UL
-Insulation tape of T1, T500	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1351-1(a), 1351-2(c), 1351T-1(a), 1351T- 2(a), 1351T-3(a)	130 °C	Tested with appliance, UL
-(Alternative)	BONDTEC PACIFIC CO LTD.	No 370S(b), No371F(a)	130 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1350F-1(b), 1350T- 1(b), 1350T-3(b), 1318-1	130 °C	UL
-(Alternative)	Symbio Inc.	MY9YAF(h), 35660Y(e), 35660(a), 35661(c),	130 °C	UL
-(Alternative)	JingjiangYahua	CT*(b)(g).PZ, WF	130 °C	UL
-(Alternative)	E I DUPONT DE NEMOURS & CO INC	Nomex®410,411, 414, 418	220 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	92	180 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1318-1(a), 1350F- 1(b), 1350T-1(b), 1350T-2(b), 1350T- 3(b), 1351T-1(a), 1351T-2(a), 44(a), 56(a), 44, 44D, 44D- A, 44-T, 44T-A	130 °C	UL
Photo coupler (U4, U5)	Lite-On	LTV-1006	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-1008	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr.≥ 8.0mm, min. 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
(Alternative)	Lite-On	LTV-817	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Lite-On	LTV-817M	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Sharp	PC123	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext. cr= 8.0 mm, 110 °C	VDE
(Alternative)	Cosmo	K1010	Dti= 0.5 mm, Int. cr= 5.3 mm,   Ext. cr = 8.0 mm, 115 °C	VDE
(Alternative)	Toshiba Corporation	TLP781F	Dti = 0.6 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0 mm, 115 °C	VDE
(Alternative)	Everlight	EL817M	Dti = 0.4 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-817S	Dti=0.4 mm, Int.cr=5.2 mm, Ext.cr.≥ 8.0 mm, 115 °C	VDE
(Alternative)	VISHAY	TCLT1008	Dti=0.43 mm, Ext.dcr.≥ 8.0 mm, 110 °C	VDE
(Alternative)	CT-Micro	CT817	Dti=0.4 mm, Int.cr=5.3 mm, Ext.cr.≥ 8.0 mm, Min. 100 °C	VDE
(Alternative)	Toshiba	TLP2701	Dti=0.4 mm, Ext.cr.≥ 8.0 mm, 125 °C	VDE
Potting compound	Guangzhou Huitian New Chemical Ltd.	5299,5297	V-0, 150 °C	Tested with appliance, UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B H	V-0, 150 °C	UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B	V-0, 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
(Alternative)	DOW CORNING CORP	SYLGARD 160	V-0, 150 °C	UL
(Alternative)	DOW CORNING CORP	TC-6011	V-0, 150 °C	UL
(Alternative)	U-Bond	UB-5203A/ UB-5203B	V-0, 150 °C	UL
(Alternative)	Riseast	SSTCP	V-0, 150 °C	UL
(Alternative)	LINKTECH	EncapSil 1400	V-0, 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)
ELGC-300-L	Without dimming wire and without dimming PCB
ELGC-300-L-A	Without dimming wire, without dimming PCB and with Rear cover(Plastic cap)
ELGC-300-L-B	Dimming PCB (B type)
ELGC-300-L-AB	Dimming PCB (B type) and with Rear cover(Plastic cap)
ELGC-300-L-D2	Dimming PCB (D type)
ELGC-300-L-AD2	Dimming PCB (D type) and with Rear cover(Plastic cap)
ELGC-300-L-ADA	With Rear cover(Plastic cap)
<b>제품특기사항 및 시험조건</b> <b>Remarks &amp; Test conditions</b>	
<p>1. Review Ref. No.: 18-075021-05-2 (2019.04.26.)</p> <p>2. Product Description:</p> <ul style="list-style-type: none"> <li>- Rated input : AC 100-240 V, 50/60 Hz, 328 W, 3 A</li> <li>- Rated output current (<math>I_{rated}</math>) : 1 400 mA</li> <li>- Rated output power (<math>P_{rated}</math>) : 301.6 W</li> <li>- Maximum output voltage(U-OUT) : DC 240 V</li> <li>- tc: 85 °C, ta : 40 °C</li> <li>- Power factor : 0.95</li> <li>- IP ratings : IP67</li> <li>- Type of protection : Class I</li> <li>- Thermally protection : 110 °C</li> <li>- Constant current type, Independent, Isolating controlgear</li> <li>- With dimming wire, with dimming PCB(DA type) and without Rear cover(Plastic cap)</li> <li>- This product is filled with potting compound</li> <li>- Metal enclosure used</li> </ul>	
<p>□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토 담당자 / 연락처 : 고객지원본부 인증관리센터 이 용노 / (02)860-1423</p> <p>□ <i>If you have any question on product review, please contact the person below :</i> <i>Job holder: Customer Support Division, Certification Management Center, Y.R.LEE/+82 2 8601-423</i></p>	

FP511-05

□ 첨부 3 : 안전인증의 변경 현황  
Revisions Status

변경발급 내용 Contents of Certificate Revisions		
1 <sup>st</sup> Rev.) Change of PCB layout and Addition of components (21-058991-03-1 : 2021.10.15.)		
- PCB layout: Added copper foil around the component holes for fixing components better.		
- Added materials of choke and transformer		
- Addition ;		
Components	Manufacturer	Model
Varistor (ZR1, ZR2)	Huiwan	V-511K-10D(E)H, V-511K-14D(E)H
X-capacitor (C1, C2)	NISSEI	MP1
Y-capacitor (C31)	Huiwan	AR
	Wanming	HJ
	Walsin	AS
Y-capacitor (C3, C4, C23, C30)	Huiwan	AR
	Huiwan	AB
	Wanming	HM
	Wanming	HJ
PCB	Junda	JD-D1
	GUANGDONG CHAOHUA	C-109
	LOMBER CIRCUITS (HUIZHOU) LTD	FRV03, FRV03A
	JIANGSU DIFEIDA	DFD-2
	SUZHOU WUTONG	GS-1, GS-2, GS-3, GS-4, GS-4S
	RONG HUI	RH-3
	CHANGZHOU AOHONG	AOH-2, AOH-8
	CHANGZHOU HAIHONG	CCE-V0, HDCEM1
	Photo coupler (U4,U5)	Lite-on
VISHAY		TCLT1008
CT-Micro		CT817
Toshiba		TLP2701
Potting compound	LINKTECH	Encapsil 1400

FP511-06



접수번호 : 18-075021-05-1  
(Receipt No.)



# 안전인증서

## Safety Certificate

안전인증번호 : SU11358-18014  
(Certificate No.)

제조업자/수입업자명 : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch  
(Manufacturer/importer)

주소 : No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China  
(Address)

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

기본모델명 : ELGC-300-L-DA  
(Basic Model)

파생모델명 : See the attachment 2  
(Series Model)

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 328 W (output : Max. DC 240 V, 1  
(Rating) 400 mA)

시험기준 : KC61347-1(2015-09), KC61347-2-13 (2015-09)  
(Standard)

본 인증서는 제조국명 : 중국  
제조업자명 : MEAN WELL (Guangzhou) Electronics Co., Ltd. Huadu branch  
제조공장의 주소 : No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou, P.R. China  
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.

2019 년 04 월 29 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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□ 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
Input cord	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 57 H05RN-F 3G0.75mm <sup>2</sup> - 1.0mm <sup>2</sup>	AC 300 / 500 V, 3G x 1.0 mm <sup>2</sup>	KC
(Alternative)	Dongguan Ever United Electric Wire & Cable Co., Ltd.	K60245 IEC 66 H07RN-F 3G1.0mm <sup>2</sup> - 4mm <sup>2</sup>	AC450 / 750 V, 3G x 1.0 mm <sup>2</sup>	KC
Fuse (FS1)	Conquer	MST	T6.3 A, 250 V or AC 300 V	VDE, TUV
(Alternative)	Walter	2010	T6.3 A, 250 V or AC 300 V	VDE, TUV
(Alternative)	Littelfuse	369	T6.3 A, 250 V or AC 300 V	VDE
Varistor (ZR 1, ZR2)	Centra Science	CNR10D471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR10D511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR10D561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Centra Science	CNR14D561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S471K	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S511K	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Joyin	14S561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	14N561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Joyin	10S561K	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10561	AC 350 V, DC 450 V, Min. 85 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Thinking	TVR14561	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10561-D	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14561-D	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10561-V,	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14561-V	AC 350 V, DC 450 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10511	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14511	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14511-V	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10511-V	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14511-D	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10511-D	AC 320 V, DC 410 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10471	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14471	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10471-V	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14471-V	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10471-D	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR14471-D	AC 300 V, DC 385 V, Min. 85 °C	VDE
(Alternative)	Thinking	TVR10561-M	AC 350 V, DC 450 V, 125 °C	VDE
(Alternative)	Thinking	TVR14561-M	AC 350 V, DC 450 V, 125 °C	VDE
(Alternative)	Thinking	TVR14511-M	AC 320 V, DC 410 V, 125 °C	VDE
(Alternative)	Thinking	TVR10511-M	AC 320 V, DC 410 V, 125 °C	VDE
(Alternative)	Thinking	TVR10471-M	AC 300 V, DC 385 V, 125 °C	VDE
(Alternative)	Thinking	TVR14471-M	AC 300 V, DC 385 V, 125 °C	VDE
X Capacitors (C1, C2)	Kemet (Arcotronics)	R.46	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Kemet (Arcotronics)	R.49	Min. AC 310 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Epcos	B3292#	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Iskra	KNB1530	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Iskra	KNB1560	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Liow Gu	GS-L	AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Pilkor	PCX2 335	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Pilkor	PCX2 337	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Ultra Tech	HQX	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Shiny Space	SX1	AC 300 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	HUA JUNG	MKP	AC 305 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
(Alternative)	Carli Electronics	MPX	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Joey	MPX	AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Xiamen Faratronic	MKP62	Min. AC 275 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	VDE
(Alternative)	Okaya	LE	Min. AC 250 V, Min. 100 °C, C1=0.47 uF, C2=1 uF	ENEC
Y-capacitor (C31)	Murata	KX	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Walsin	AH	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	TDK	CD	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Welson	WD	Min. AC 250 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	VY1	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	WKP	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	VISHAY	440L	AC 500 V, 1 000 pF, Min. 105 °C, Y1	VDE
(Alternative)	Vishay	338 6, F1710	AC 300 V, 1 000 pF, Min. 105 °C, Y1	ENEC
Y-capacitor (C3, C4, C23, C30)	Murata	KX	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Murata	KH, KY	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Walsin	AH, AS	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AC	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Walsin	AS	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	TDK	CD	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	TDK	CS	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Welson	WD	Min. AC 250 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	Welson	KL	Min. AC 250 V, Min. 105 °C, Y2, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	VY1	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	WKP	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	440L	AC 500 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	VDE
(Alternative)	VISHAY	338 6	AC 300 V, Min. 105 °C, Y1, C3=C4=C30=1 000 pF, C23=100 pF	ENEC
PCB	Junda	JD-D,JD-E	V-1, 105 °C	Tested with appliance, UL
(Alternative)	GUANGZHOU TAIHE	THS, THD	V-1, 105 °C	UL
(Alternative)	HONG SHIEN	03V-0, -D, -M	V-1, 105 °C	UL
(Alternative)	HSU TZU	4V0, DV2, MV1	V-1, 105 °C	UL
(Alternative)	JIIN-YU	JY-001, JY-003	V-1, 105 °C	UL
(Alternative)	Brite Plus	DGV0-3A	V-1, 105 °C	UL
(Alternative)	HSIANG KUO	76V0A	V-1, 105 °C	UL
(Alternative)	SHANGHAI WANZHENG	SWZ-1	V-1, 105 °C	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	GUANGDONG CHAOHUA	C-103, C-104	V-1, 105 °C	UL
Line Filter Choke (LF1)	MEAN WELL	TR-1010A	130 °C	Tested with appliance
Line Filter Choke (LF2)	MEAN WELL	TR-6207A	130 °C	Tested with appliance
Line Filter Choke (L1)	MEAN WELL	TF-6918	130 °C	Tested with appliance
Line Filter Choke (L2)	MEAN WELL	TR-6211	130 °C	Tested with appliance
-Winding of LF1, LF2 and L1, L2	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U(MW 75- C), UEWN/U(MW 28-C), UEWS/U(MW75- C)	130 °C	Tested with appliance, UL
Transformer (T1)	MEAN WELL Enterprises Co., Ltd.	TF-6916	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6916	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6916	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6916	Class B	Tested with appliance
Transformer (T500)	MEAN WELL Enterprises Co., Ltd.	TF-6919	Class B	Tested with appliance
(Alternative)	JET SIGNAL INDUSTRIES CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	LONG SAIL ELECTRONIC CO LTD	TF-6919	Class B	Tested with appliance
(Alternative)	YU JING TECHNOLOGY CO LTD	TF-6919	Class B	Tested with appliance
-Bobbin of T1, T500	Sumitomo Bakelite Co., Ltd.	PM-9820, PM-9630	V-0, Phenolic, 150 °C	Tested with appliance, UL
-(Alternative)	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
-(Alternative)	NAN YA	1403G3, 1403G6	V-0, 130 °C	UL
-(Alternative)	CHANG CHUN PLASTICS CO LTD	T375J,T375HF	V-0, 150 °C	UL
-(Alternative)	SUMITOMO CHEMICAL CO LTD	E4008	130 °C	UL
-Triple insulation wire of T1, T500	Furukawa	TEX-E	130 °C	Tested with appliance, UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-2X, TIW- 2SX	130 °C	UL
-(Alternative)	TOTOKU ELECTRIC CO LTD	TIW-3X	155 °C	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(B)- M	130 °C	UL
-(Alternative)	Great Leoflon Industrial Co Ltd	TRW(F)-M	155 °C	UL
-Winding of transformer (T1)	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD.	UEW/U@ (MW 75-C)	130 °C	Tested with appliance, UL
-Teflon tube	Great Holding Industrial Co., Ltd.	TFL,TFT,TFS	200 °C	Tested with appliance, UL
-(Alternative)	ZEUS INDUSTRIAL PRODUCTS INC.	TFE-LW-150, TFE-TW-300, TFE-SW-600	200 °C	UL
-Insulation tape of T1, T500	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1351-1(a), 1351-2(c), 1351T-1(a), 1351T-2(a), 1351T-3(a)	130 °C	Tested with appliance, UL
-(Alternative)	BONDTEC PACIFIC CO LTD.	No 370S(b), No371F(a)	130 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV(EMD)	1350F-1(b), 1350T-1(b), 1350T-3(b), 1318-1	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
-(Alternative)	Symbio Inc.	MY9YAF(h), 35660Y(e), 35660(a), 35661(c),	130 °C	UL
-(Alternative)	JingjiangYahua	CT*(b)(g).PZ, WF	130 °C	UL
-(Alternative)	E I DUPONT DE NEMOURS & CO INC	Nomex®410,411, 414, 418	220 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	92	180 °C	UL
-(Alternative)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1318-1(a), 1350F-1(b), 1350T-1(b), 1350T-2(b), 1350T-3(b), 1351T-1(a), 1351T-2(a), 44(a), 56(a), 44, 44D, 44D-A, 44- T, 44T-A	130 °C	UL
Photo coupler (U4, U5)	Lite-On	LTV-1006	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-1008	Dti= 0.4 mm, Int. dcr.= 6.0mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
(Alternative)	Lite-On	LTV-817	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Lite-On	LTV-817M	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext.cr≥ 8 mm, 115 °C	VDE
(Alternative)	Sharp	PC123	Dti= 0.4 mm, Int. cr= 5.2 mm, Ext. cr= 8.0 mm, 110 °C	VDE
(Alternative)	Cosmo	K1010	Dti= 0.5 mm, Int. cr= 5.3 mm,   Ext. cr = 8.0 mm, 115 °C	VDE
(Alternative)	Toshiba Corporation	TLP781F	Dti = 0.6 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0 mm, 115 °C	VDE



부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternative)	Everlight	EL817M	Dti = 0.4 mm, Int. dcr.= 6.0 mm, Ext. dcr.≥ 8.0mm, min. 100 °C	VDE
Potting compound	Guangzhou Huitian New Chemical Ltd.	5299,5297	V-0, 150 °C	Tested with appliance, UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B H	V-0, 150 °C	UL
(Alternative)	Shin-Etsu Silicone Taiwan Co., Ltd.	KET-132 A/B	V-0, 150 °C	UL
(Alternative)	DOW CORNING CORP	<u>SYLGARD 160</u>	V-0, 150 °C	UL
(Alternative)	DOW CORNING CORP	TC-6011	V-0, 150 °C	UL
(Alternative)	U-Bond	UB-5203A/ UB-5203B	V-0, 150 °C	UL
(Alternative)	Riseast	SSTCP	V-0, 150 °C	UL

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)
ELGC-300-L	Without dimming wire and without dimming PCB
ELGC-300-L-A	Without dimming wire, without dimming PCB and with Rear cover(Plastic cap)
ELGC-300-L-B	Dimming PCB (B type)
ELGC-300-L-AB	Dimming PCB (B type) and with Rear cover(Plastic cap)
ELGC-300-L-D2	Dimming PCB (D type)
ELGC-300-L-AD2	Dimming PCB (D type) and with Rear cover(Plastic cap)
ELGC-300-L-ADA	With Rear cover(Plastic cap)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Review Ref. No.: 18-075021-05-2 (2019.04.26.)</p> <p>2. Product Description:</p> <ul style="list-style-type: none"> <li>- Rated input : AC 100-240 V, 50/60 Hz, 328 W, 3 A</li> <li>- Rated output current (<math>I_{rated}</math>) : 1 400 mA</li> <li>- Rated output power (<math>P_{rated}</math>) : 301.6 W</li> <li>- Maximum output voltage(U-OUT) : DC 240 V</li> <li>- tc: 85 °C, ta : 40 °C</li> <li>- Power factor : 0.95</li> <li>- IP ratings : IP67</li> <li>- Type of protection : Class I</li> <li>- Thermally protection : 110 °C</li> <li>- Constant current type, Independent, Isolating controlgear</li> <li>- With dimming wire, with dimming PCB(DA type) and without Rear cover(Plastic cap)</li> <li>- This product is filled with potting compound</li> <li>- Metal enclosure used</li> </ul>	
<p>□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토 담당자 : BK 전략본부 인증관리센터 이 용노 / (02)860-1423</p> <p>□ If you have any question on product review, please contact the person below : Job holder: BK Strategy Division Certification Management Center, Y.R.LEE/+82 2 8601-423</p>	

FP511-05

**첨부 3 : 안전인증의 변경 현황**  
Revisions Status

변경발급 내용 Contents of Certificate Revisions
Not applicable

FP511-06

첨부 : 제품사진  
Photographs

<사진 1>



<사진 2>

