

접 수 번 호 : 22-080701-01-1
(Receipt No.)



안전확인신고 증명서

Confirmation Letter of Declaration

신 고 번 호 : ZU101076-20001B
(Application No.)

신 고 회 사 명 : MEAN WELL (Guangzhou) Electronics Co.,Ltd.
(Applicant)

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

제 품 명 : 컴퓨터용 전원공급장치(Switching Power Supply)
(Product)

기 본 모 델 명 : LRS-50-12
(Basic Model)

파 생 모 델 명 : Not Applicable
(Series Model)

정격/안전기준상의 모델구분 : AC 100-240 V, 50/60 Hz, 1.0 A (DC output: 12 V, 4.2 A)
(Rating)

안 전 기 준 : K60950-1(2011-12)
(Standard)

본 확인신고는 제 조 국 명 : 중국

제조업자 명 : 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」 제28조제1항, 같은 조 제3항, 제29조제2항 또는 제34조제2항에 따라
안전확인신고 증명서를 발급합니다.

We issue this Confirmation Letter of Declaration of the Safety Confirmation for the above appliance in accordance
with the Article 28(1), 28(3), 29(2) or 34(2) of the Enforcement Rule of the Electrical Appliances and Consumer
Products Safety Control Act.

2023 년 01 월 12 일
Year month day

한국산업기술시험원장
KOREA TESTING LABORATORY



※ 이 신고증명서는 「전기용품 및 생활용품 안전관리법」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)(전기용품에 한정한다)
2. 기본모델·파생모델의 내용(Description of the basic and series model)
3. 안전확인신고 내용의 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
Metal Chassis	Interchangeable	Interchangeable	Metal, Min. 0.6 mm thickness	-
PCB	Interchangeable	Interchangeable	V-1 or better, 130 °C	UL
Fuse (FS1)	Conquer Electronics Co., Ltd.	MST-series	T3.15 A, AC 250 V or AC 300 V	VDE
(Alternate)	Ever Island Electric Co., Ltd. and Walter Electric	2010	T3.15 A, AC 250 V or AC 300 V	VDE
(Alternate)	Littelfuse Wickmann - Werke	369	T3.15 A, AC 250 V or AC 300 V	VDE
X-Capacitor (C1) (Optional)	KEMET ELECTRONICS ITALIA SRL	R.46, R49	Max. 0.82 µF, Min. AC 250 V, Class X1 or X2	ENEC
(Alternate)	ISKRA KONDENZATORJI D D	KNB1530, KNB1560	Max. 0.82 µF, Min. AC 250 V, Class X1 or X2	ENEC
(Alternate)	LIOW GU ELECTRONICS INDUSTRY CO LTD	GS-L	Max. 0.82 µF, Min. AC 250 V, Class X1 or X2	ENEC
(Alternate)	PILKOR ELECTRONICS CO LTD	PCX2 335M, PCX2 337	Max. 0.82 µF, Min. AC 250 V, Class X1 or X2	ENEC
(Alternate)	EPCOS ELECTRONIC COMPONENTS S A	B3292#, B3292 series, B3292#C/D/T /S/H/J3 series	Max. 0.82 µF, Min. AC 250 V, Class X1 or X2	VDE, ENEC
(Alternate)	ULTRA TECH XIPHI ENTERPRISE CO LTD	HQX	Max. 0.82 µF, Min. AC 250 V, Class X1 or X2	VDE
(Alternate)	JOEY ELECTRONICS (DONG GUAN) CO LTD	MPX	Max. 0.82 µF, Min. AC 250 V, Class X1 or X2	VDE, ENEC
(Alternate)	CHENG TUNG INDUSTRIAL CO LTD	CTX	Max. 0.82 µF, Min. AC 250 V, Class X1 or X2	ENEC
(Alternate)	HUA JUNG COMPONENTS CO LTD	MKP	Max. 0.82 µF, Min. AC 250 V, Class X1 or X2	ENEC
(Alternate)	CARLI ELECTRONICS CO LTD	MPX	Max. 0.82 µF, Min. AC 250 V, Class X1 or X2	VDE, ENEC
(Alternate)	XIAMEN FARATRONIC CO. LTD.	MKP62	Max. 0.82 µF, Min. AC 250 V, Class X1 or X2	VDE, ENEC

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternate)	Yangzhou Nissei Electronics Co., Ltd.	MP1	Max. 0.82 μ F, Min. AC 250 V, Class X1 or X2	VDE
Discharge IC (U1) (Optional)	NXP Semiconductors	TEA1836xT (x could be 1, 2, 3)	AC 100-240 V, 47-63 Hz	CB by UL
Bleeder Resistor of ICX related circuit (R20, R21, R23) (when discharge IC (U1) is used)	Interchangeable	Interchangeable	Max.62k Ω , min. 1/4W	---
Bleeder Resistor of ICX related circuit (R22, R24) (when discharge IC (U1) is used)	Interchangeable	Interchangeable	Max.130k Ω , min. 1/4W	---
Bleeder resistor (R2,R3, R4) (when discharge IC is not used)	Interchangeable	Interchangeable	Each rated max. 180Kohm, min. 1/4 W.	---
Y-Capacitor (C4) (Optional)	MURATA MFG CO LTD	KX	Max. 2200 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AH, AC, AS	Max. 2200 pF, Min. AC 250 V, Class Y1 or Y2	VDE
(Alternate)	TDK-EPC CORP.	CD	Max. 2200 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	WELSON INDUSTRIAL CO LTD	WD	Max. 2200 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	VISHAY ELECTRONIC GMBH	VY1, WKP	Max. 2200 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	VISHAY CERA-MITE CORPORATION	440L...	Max. 2200 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	Xiamen Wanming Electronics Co., Ltd.	HJ	Max. 2200 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AR	Max. 2200 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AB	Max. 2200 pF, Min. AC 250 V, Class Y1	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 (C24) (Optional)	MURATA MFG CO LTD	KX	Max. 470 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AH, AC, AS	Max. 470 pF, Min. AC 250 V, Class Y1 or Y2	VDE
(Alternate)	TDK-EPC CORP.	CD	Max. 470 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	WELSON INDUSTRIAL CO LTD	WD	Max. 470 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	VISHAY ELECTRONIC GMBH	VY1, WKP	Max. 470 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	VISHAY CERA-MITE CORPORATION	440L...	Max. 470 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	Xiamen Wanming Electronics Co., Ltd.	HJ	Max. 470 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AR	Max. 470 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AB	Max. 470 pF, Min. AC 250 V, Class Y1	VDE
Y-Capacitor (C30) (Optional)	MURATA MFG CO LTD	KX	Max. 4700 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AH, AC, AS	Max. 4700 pF, Min. AC 250 V, Class Y1 or Y2	VDE
(Alternate)	TDK-EPC CORP.	CD	Max. 4700 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	WELSON INDUSTRIAL CO LTD	WD	Max. 4700 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	VISHAY ELECTRONIC GMBH	VY1, WKP	Max. 4700 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	VISHAY CERA-MITE CORPORATION	440L...	Max. 4700 pF, Min. AC 250 V, Class Y1	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternate)	Xiamen Wanming Electronics Co., Ltd.	HJ	Max. 4700 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AR	Max. 4700 pF, Min. AC 250 V, Class Y1	VDE
(Alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AB	Max. 4700 pF, Min. AC 250 V, Class Y1	VDE
Bridge Capacitor (C31, C32 in series) (Optional)	MURATA MFG CO LTD	KX, KY, KH	Max. 3300 pF, Min. AC 250 V, Y1 or Y2	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AH, AC, AS	Max. 3300 pF, Min. AC 250 V, Y1 or Y2	VDE
(Alternate)	TDK-EPC CORP.	CD, CS	Max. 3300 pF, Min. AC 250 V, Y1 or Y2	VDE
(Alternate)	WELSON INDUSTRIAL CO LTD	WD, KL	Max. 3300 pF, Min. AC 250 V, Y1 or Y2	VDE
(Alternate)	VISHAY ELECTRONIC GMBH	VY1, WKP	Max. 3300 pF, Min. AC 250 V, Y1 or Y2	VDE
(Alternate)	VISHAY CERA-MITE CORPORATION	440L...	Max. 3300 pF, Min. AC 250 V, Y1 or Y2	VDE
(Alternate)	VISHAY CAPACITORS BELGIUM N V	338 6	Max. 3300 pF, Min. AC 250 V, Y1 or Y2	VDE
(Alternate)	Xiamen Wanming Electronics Co., Ltd.	HJ	Max. 3300 pF, Min. AC 250 V, Y1 or Y2	VDE
(Alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AR	Max. 3300 pF, Min. AC 250 V, Y1 or Y2	VDE
(Alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AB	Max. 3300 pF, Min. AC 250 V, Y1 or Y2	VDE
(Alternate)	Xiamen Wanming Electronics Co., Ltd.	HM	Max. 3300 pF, Min. AC 250 V, Y1 or Y2	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Optical Isolator (U2, U3) U3 only for LRS- 50-12 with IC NCP1342	Toshiba Corporation Semiconductor & Storage Products Company	TLP781, TLP781F	Dti > 0.6 mm, int.dcr. = thermal cycling test, ext.dcr > 8 mm, 115 °C	VDE
(Alternate)	Sharp Corp. Electronic Components Group	PC123	Dti > 0.4 mm, int.dcr. = thermal cycling test, ext.dcr > 8 mm, 110 °C	VDE
(Alternate)	Lite-On Technology Corp	LTV-817, LTV- 817M, LTV-817S	Dti = 0.6mm, internal cr. = 5.2 mm (thermal cycling test), external cr. = 8.0 mm. 115 °C	VDE
(Alternate)	Cosmo Electronics Corp.	K1010	Dti = 0.5 mm, internal cr. = 5.3 mm (thermal cycling test), external cr. = 8.0 mm, 115 °C	VDE
(Alternate)	Everlight Electronics Co., Ltd.	EL817, EL817M	Dti > 0.6 mm, int.dcr. = thermal cycling test, ext.dcr > 8 mm, 115 °C	VDE
(Alternate)	Vishay Semiconductor GmbH	TCLT1008	Reinforced insulation	VDE
(Alternate)	Lite-On Technol ogy Corporation	LTV-1008	Reinforced insulation	VDE
(Alternate)	CT Micro International Corporation	CT1(X1)1(X2) (X3) V (Y)(Z)- W- (H)(G)	Reinforced insulation	VDE
Transformer (T1)	MEAN WELL Enterprise Co Ltd	TF-5270	Class B	Tested with appliance
Line filter (LF1)	MEAN WELL	LF-5009	130 °C	Tested with appliance
(Alternate)	MEAN WELL	LF-5007	130 °C	-
(Alternate)	MEAN WELL	LF-5005	130 °C	-
(Alternate)	MEAN WELL	LF-5009A	130 °C	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
☐ 유의사항 (Attention) : 1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다. <i>As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.</i> 2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 21 조제 1 항 또는 제 38 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다. <i>The Safety Certification will be cancelled under the Article 21(1), 38(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.</i>				

FP511-04

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

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
Not applicable	
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Test Report Ref. No. : 20-003951-10-2(2020.03.06) 2. Product Description - Measured power consumption: 59.86 W - Class of equipment: Class I - Protection against ingress of water: IPX0 - Mass of equipment (kg): 0.20 - Input rating: 100-240 V~50/60 Hz, 1.0 A(DC output: 12 V, 4.2 A)	
☐ 본 제품의 검토내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토담당자 / 연락처 : 고객지원본부 인증융합평가센터 장 재용 / 02-860-1137 ☐ If you have any question on product review, please contact the person below : Job holder: Customer Support Division, Certification Convergence Evaluation Center, J.Y.Jang / +82 2 860 1137	

FP511-05

□ 첨부 3 : 안전확인신고 내용의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions
1st Rev.) Change of applicant name, president and address (21-080734-10-1 : 2022.01.06.) - Before : MEAN WELL (GUANGZHOU) ELECTRONICS CO., LTD HUADU BRANCH / Yin Xiao Ming / No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou 510890, P.R. China - After : MEAN WELL (Guangzhou) Electronics Co.,Ltd. / Aden Wang / No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China 2nd Rev.) Revision as below (22-080701-01-1 : 2023.01.12.) - Add new layout with new IC for alternative use, existing Discharge IC (U1) is optional used - X-Capacitors (C1) Rating update: "Max. 0.82uF" - Y-Capacitors (C4) Rating update: "Max. 2200 pF" - Add Optical Isolator U3 (only used for new circuit) - Addition of alternate components - CB Certificate Ref. No.: JPTUV-064053-A1/M1 (TUV Rheinland Japan Ltd.) - CB Test Report No.: 11041121 003 (TUV Rheinland (Guangdong) Ltd.)

FP511-06

접 수 번 호 : 22-080701-02-1
(Receipt No.)



안전확인신고 증명서

Confirmation Letter of Declaration

신 고 번 호 : ZU101076-20008B
(Application No.)

신 고 회 사 명 : MEAN WELL (Guangzhou) Electronics Co.,Ltd.
(Applicant)

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

제 품 명 : 컴퓨터용 전원공급장치(Switching Power Supply)
(Product)

기 본 모 델 명 : LRS-50-24
(Basic Model)

파 생 모 델 명 : Not Applicable
(Series Model)

정격/안전기준상의 모델구분 : 100-240 V~50/60 Hz, 1.0 A (Output: 24 Vdc, 2.2 A)
(Rating)

안 전 기 준 : K60950-1(2011-12)
(Standard)

본 확인신고는 제 조 국 명 : 중국

제조업자 명 : 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」 제28조제1항, 같은 조 제3항, 제29조제2항 또는 제34조제2항에 따라
안전확인신고 증명서를 발급합니다.

We issue this Confirmation Letter of Declaration of the Safety Confirmation for the above appliance in accordance
with the Article 28(1), 28(3), 29(2) or 34(2) of the Enforcement Rule of the Electrical Appliances and Consumer
Products Safety Control Act.

2023 년 01 월 12 일
Year month day

한국산업기술시험원장
KOREA TESTING LABORATORY



※ 이 신고증명서는 「전기용품 및 생활용품 안전관리법」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)(전기용품에 한정한다)
2. 기본모델·파생모델의 내용(Description of the basic and series model)
3. 안전확인신고 내용의 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
Chassis	Interchangeable	Interchangeable	Metal, minimum 0.6 mm thick.	-
PCB	Interchangeable	Interchangeable	V-1 or better, 130 °C min.	UL
Fuse (FS1)	Conquer Electronics Co., Ltd.	MST-series	T3.15 A, 250 Vac or 300Vac	VDE, UL
(alternate)	Ever Island Electric Co., Ltd. and Walter Electric	2010	T3.15 A, 250 Vac or 300Vac	VDE, UL
(alternate)	Littelfuse Wickmann - Werke	369	T3.15 A, 250 Vac or 300Vac	VDE, UL
X-Capacitor (C1) (optional)	KEMET ELECTRONICS ITALIA SRL	R.46, R49	Rated maximum 0.82 μ F, Minimum 250 Vac. Class X1 or X2, minimum 100 °C	ENEC, UL
(alternate)	ISKRA KONDENZATORJI D D	KNB1530, KNB1560	Rated maximum 0.82 μ F, Minimum 250 Vac. Class X1 or X2, minimum 100 °C	ENEC, UL
(alternate)	LIOW GU ELECTRONICS INDUSTRY CO LTD	GS-L	Rated maximum 0.82 μ F, Minimum 250 Vac. Class X1 or X2, minimum 100 °C	ENEC, UL
(alternate)	PILKOR ELECTRONICS CO LTD	PCX2 335M, PCX2 337	Rated maximum 0.82 μ F, Minimum 250 Vac. Class X1 or X2, minimum 100 °C	ENEC, UL
(alternate)	EPCOS ELECTRONIC COMPONENTS S A	B3292#, B3292 series, B3292#C/D/T /S/H/J3 series	Rated maximum 0.82 μ F, Minimum 250 Vac. Class X1 or X2, minimum 100 °C	VDE, ENEC, UL
(alternate)	ULTRA TECH XIPHI ENTERPRISE CO LTD	HQX	Rated maximum 0.82 μ F, Minimum 250 Vac. Class X1 or X2, minimum 100 °C	VDE, UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(alternate)	JOEY ELECTRONICS (DONG GUAN) CO LTD	MPX	Rated maximum 0.82 μ F, Minimum 250 Vac. Class X1 or X2, minimum 100 °C	VDE, ENEC, UL
(alternate)	CHENG TUNG INDUSTRIAL CO LTD	CTX	Rated maximum 0.82 μ F, Minimum 250 Vac. Class X1 or X2, minimum 100 °C	ENEC, UL
(alternate)	HUA JUNG COMPONENTS CO LTD	MKP	Rated maximum 0.82 μ F, Minimum 250 Vac. Class X1 or X2, minimum 100 °C	ENEC, UL
(alternate)	CARLI ELECTRONICS CO LTD	MPX	Rated maximum 0.82 μ F, Minimum 250 Vac. Class X1 or X2, minimum 100 °C	VDE, ENEC, UL
(alternate)	XIAMEN FARATRONIC CO. LTD.	MKP62	Rated maximum 0.82 μ F, Minimum 250 Vac. Class X1 or X2, minimum 100 °C	VDE, ENEC, UL
(Alternate)	Yangzhou Nissei Electronics Co., Ltd.	MP1	Max. 0.82 μ F, Min. AC 250 V , Class X1 or X2	VDE
Discharge IC (U1) (Optional)	NXP Semiconductors	TEA1836xT (x could be 1, 2, 3)	100-240Vac, 47-63Hz	UL
Bleeder Resistor of ICX related circuit (R20, R21, R23) (when discharge IC (U1) is used)	Interchangeable	Interchangeable	Max.62kΩ , min. 1/4W	--
Bleeder Resistor of ICX related circuit (R22, R24) (when discharge IC (U1) is used)	Interchangeable	Interchangeable	Max.130kΩ , min. 1/4W	--
Bleeder resistor (R2,R3, R4) (when discharge IC is not used)	Interchangeable	Interchangeable	Each rated max. 180Kohm , min. 1/4 W.	--

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Y-Capacitor (C24, C30) (optional)	MURATA MFG CO LTD	KX	Maximum 470 pF for C24; maximum 4700 pF for C30, minimum 250 Vac. Class Y1, 125 °C	VDE, UL
(alternate)	WALSIN TECHNOLOGY CORP	AH, AC, AS	Maximum 470 pF for C24; maximum 4700 pF for C30, minimum 250 Vac. Class Y1 or Y2, 125 °C	VDE, UL
(alternate)	TDK-EPC CORP.	CD	Maximum 470 pF for C24; maximum 4700 pF for C30, minimum 250 Vac. Class Y1, 125 °C	VDE, UL
(alternate)	WELSON INDUSTRIAL CO LTD	WD	Maximum 470 pF for C24; maximum 4700 pF for C30, minimum 250 Vac. Class Y1, 125 °C	VDE, UL
(alternate)	VISHAY ELECTRONIC GMBH	VY1, WKP	Maximum 470 pF for C24; maximum 4700 pF for C30, minimum 250 Vac. Class Y1, 125 °C	VDE, UL
(alternate)	VISHAY CERA-MITE CORPORATION	440L...	Maximum 470 pF for C24; maximum 4700 pF for C30, minimum 250 Vac. Class Y1, 125 °C	VDE, UL
(alternate)	Xiamen Wanming Electronics Co., Ltd.	HJ	Maximum 470 pF for C24; maximum 4700 pF for C30, minimum 250 Vac. Class Y1, 125 °C	VDE
(alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AR	Maximum 470 pF for C24; maximum 4700 pF for C30, minimum 250 Vac. Class Y1, 125 °C	VDE
(alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AB	Maximum 470 pF for C24; maximum 4700 pF for C30, minimum 250 Vac. Class Y1, 125 °C	VDE
Line Choke (LF1)	Mean Well	LF-5005	Rated 130 °C	Tested with appliance
(alternate)	Mean Well	LF-5007	Rated 130 °C	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
(alternate)	Mean Well	LF-5009	Rated 130 °C	Tested with appliance
(Alternate)	MEAN WELL	LF-5009A	130 °C	Tested with appliance
Bridge Capacitor (C31, C32 in series) (optional)	MURATA MFG CO LTD	KX, KY, KH	Rated maximum 3300pF, minimum 250 Vac. Class Y1 or Y2, 125 °C	VDE, UL
(alternate)	WALSIN TECHNOLOGY CORP	AH, AC, AS	Rated maximum 3300pF, minimum 250 Vac. Class Y1 or Y2, 125 °C	VDE, UL
(alternate)	TDK-EPC CORP.	CD, CS	Rated maximum 3300pF, minimum 250 Vac. Class Y1 or Y2, 125 °C	VDE, UL
(alternate)	WELSON INDUSTRIAL CO LTD	WD, KL	Rated maximum 3300pF, minimum 250 Vac. Class Y1 or Y2, 125 °C	VDE, UL
(alternate)	VISHAY ELECTRONIC GMBH	VY1, WKP	Rated maximum 3300pF, minimum 250 Vac. Class Y1 or Y2, 125 °C	VDE, UL
(alternate)	VISHAY CERA-MITE CORPORATION	440L...	Rated maximum 3300pF, minimum 250 Vac. Class Y1 or Y2, 125 °C	VDE, UL
(alternate)	VISHAY CAPACITORS BELGIUM N V	338 6	Rated maximum 3300pF, minimum 250 Vac. Class Y1 or Y2, 105 °C	VDE, UL
(alternate)	Xiamen Wanming Electronics Co., Ltd.	HJ	Rated maximum 3300pF, minimum 250 Vac. Class Y1 or Y2, 125 °C	VDE
(alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AR	Rated maximum 3300pF, minimum 250 Vac. Class Y1 or Y2, 125 °C	VDE
(alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AB	Rated maximum 3300pF, minimum 250 Vac. Class Y1 or Y2, 125 °C	VDE
(alternate)	Xiamen Wanming Electronics Co., Ltd.	HM	Rated maximum 3300pF, minimum 250 Vac. Class Y1 or Y2, 125 °C	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Optical Isolator (U2)	Toshiba Corporation Semiconductor & Storage Products Company	TLP781, TLP781F	Dti> 0.6 mm, int. dcr.= thermal cycling test, ext. dcr>8 mm, 115 °C	VDE, D, UL
(alternate)	Sharp Corp. Electronic Components Group	PC123	Dti> 0.4 mm, int. dcr.= thermal cycling test, ext. dcr>8 mm, 110 °C	VDE, FI, UL
(alternate)	Lite-On Technology Corp	LTV-817, LTV-817M, LTV-817S	Dti=0.6mm, internal cr.= 5.2 mm (thermal cycling test), external cr.= 8.0mm. 115 °C	VDE, D, UL
(alternate)	Cosmo Electronics Corp.	K1010	Dti=0.5mm, internal cr.= 5.3 mm (thermal cycling test), external cr.= 8.0mm, 115 °C	VDE, D, UL
(alternate)	Everlight Electronics Co., Ltd.	EL817, EL817M	Dti> 0.6 mm, int. dcr.= thermal cycling test, ext. dcr>8 mm, 115 °C	VDE, D, UL
(Alternate)	Vishay Semiconductor GmbH	TCLT1008	Reinforced insulation	VDE
(Alternate)	Lite-On Technol ogy Corporation	LTV-1008	Reinforced insulation	VDE
(Alternate)	CT Micro International Corporation	CT1(X1)1(X2) (X3) V (Y)(Z)-W- (H)(G)	Reinforced insulation	VDE
Transformer (T1)	MEAN WELL Enterprise Co Ltd	TF-5272	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
☐ 유의사항 (Attention) : 1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장검사 시 확인 관리 하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경신청을 하여야 합니다. <i>As the "Critical components" are parts in directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying multiple listing or changing the items above, the certification revision shall be applied.</i> 2. 인증변경신청 없이 임의로 변경하는 경우는, 전기용품 및 생활용품 안전관리법 시행규칙 제 21 조제 1 항 또는 제 38 조제 1 항 규정에 의한 안전인증 취소 혹은 안전확인신고 효력상실 사유가 됨을 유의하시기 바랍니다. <i>The Safety Certification will be cancelled under the Article 21(1), 38(1) of the Enforcement Rule of the Electrical appliances and Consumer Products Safety Control Act if the contents of the Certification is altered without our authorization.</i>				

FP511-04

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

파생모델명 Derivative model	기본모델과의 차이점 Differences between the basic and derivative model(s)
Not applicable	
제품특기사항 및 시험조건 Remarks & Test conditions	
1. Test Report Ref. No. : 20-003951-06-2 2. Product Description - Measured power consumption: 63.0 W - Class of equipment: Class I - Protection against ingress of water: IPX0 - Mass of equipment (kg): 0.209 - Tma(Manufacturer specified ambients): 40 °C - Input rating: 100-240 V~50/60 Hz, 1.0 A(DC output: 24 Vdc, 2.2 A)	
☐ 본 제품의 검토내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토담당자 / 연락처 : 고객지원본부 인증융합평가센터 장 재용 / 02-860-1137 ☐ If you have any question on product review, please contact the person below : Job holder: Customer Support Division, Certification Convergence Evaluation Center, J.Y.Jang / +82 2 860 1137	

FP511-05

☐ 첨부 3 : 안전확인신고 내용의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions
1st Rev.) Change of applicant name, president and address (21-080734-03-1 : 2022.01.06.) - Before : MEAN WELL (GUANGZHOU) ELECTRONICS CO., LTD HUADU BRANCH / Yin Xiao Ming / No.11 Jingu South Road, Huadong Town, Huadu District, Guangzhou 510890, P.R. China - After : MEAN WELL (Guangzhou) Electronics Co.,Ltd. / Aden Wang / No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China 2nd Rev.) Revision as below (22-080701-02-1 : 2023.01.12.) - Add new layout with new IC for alternative use, existing Discharge IC (U1) is optional used - X-Capacitors (C1) Rating update: "Max. 0.82uF" - Addition of alternate components - CB Certificate Ref. No.: JPTUV-064053-A1/M1 (TUV Rheinland Japan Ltd.) - CB Test Report No.: 11041121 003 (TUV Rheinland (Guangdong) Ltd.)

FP511-06