

접 수 번 호 : 21-080734-12-1
(Receipt No.)



안전확인신고 증명서

Confirmation Letter of Declaration

신 고 번 호 : ZU101076-19001A
(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-150-12
(Basic Model)

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

정격/안전기준상의 모델구분 : AC 100-120/200-240 V, 50/60 Hz, 3.0/1.7 A, Class I
(Rating) (DC output: +12 V, 12.5 A)

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.

2022 년 01 월 06 일
Year month day

한국산업기술시험원
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 thick	-
Terminal Block (TB1)	Dinkle Enterprise Co Ltd	DT-45, DT-49	25A, 300V	UL
(Alternate)	Cixi Pans Automatic Control Equipment Fty	PT-49, PT-4C-25	25A, 300V	UL
(Alternate)	Degson Electronics Co Ltd	DG45	25 A, 300 V	UL
(Alternate)	Degson Electronics Co Ltd	DG46	30 A, 300 V	UL
(Alternate)	Dinkle Enterprise Co Ltd	DT-4	20A, 300V	UL
(Alternate)	Jite Industrial (Shenzhen) Co Ltd	BTB-654	20A, 300V	UL
(Alternate)	Switchlab Inc	T14, T34	20A, 300V	UL
(Alternate)	Switchlab Inc	MWX30	20A, 300V	UL
(Alternate)	Switchlab Inc	MWX100 series	16A, 300V	UL
(Alternate)	Switchlab Inc	T44	15A, 300V	UL
(Alternate)	Switchlab Inc	MA311	15A, 300V	UL
(Alternate)	Switchlab Inc	MA321	15A, 300V	UL
(Alternate)	Switchlab Inc	MA331	15A, 300V	UL
(Alternate)	Dinkle Enterprise Co Ltd	WK series	15A, 300V	UL
(Alternate)	Dinkle Enterprise Co Ltd	166	12A, 300V	UL
Primary Connector (CN1) (Provided when terminal block is not used)	Taiwan King Pin Terminal Co., Ltd.	P8950I-X8 (X8=02 to 24)	7 A, 250 Vac	TÜV, UL
PCB	Interchangeable	Interchangeable	V-1 or better, Min. 130 °C	UL
Fuse (FS1)	Conquer Electronics Co., Ltd.	MST	T5AL, 250Vac	VDE
(Alternate)	Ever Island Electric Co., Ltd. and Walter Electric	2010 Serie(s)	T5AL, 250Vac	VDE
(Alternate)	Littelfuse Inc.	369	T5AL, 250Vac	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternate)	Walter Electronic Co Ltd	TAP	T5AL, 250Vac	VDE
Varistor (ZNR1) (Optional)	Centra Science Corp.	CNR-10D471K, CNR-14D471K	300Vac, 385 Vdc, 85°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	Joyin Co., Ltd.	14S471K, 14N471K, 10S471K	300Vac, 385 Vdc, 85°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	Thinking Electronic Industrial Co., Ltd.	TVR10471, TVR10471-V, TVR10471-D, TVR14471, TVR14471-V, TVR14471-D	300Vac, 385 Vdc, 105°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	Thinking Electronic Industrial Co., Ltd.	TVR10471-M, TVR14471-M	300Vac, 385 Vdc, 105°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	TDK Electronics GmbH & Co OG	S10K300E2K1, S14K300	300Vac, 385 Vdc, Min.85°C, Coating material V- 1 min.	VDE
(Alternate)	Xiamen Wanming Electronics Co., Ltd.	10D471K, 14D471K	300Vac, 385 Vdc, 85°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	Walsin Technology Co., Ltd.	SR471K14D, SR471K14E	300Vac, 385 Vdc, 85°C, (flame class of body coating complied with V-0)	VDE
Varistor (ZNR5, ZNR6) (Optional)	Centra Science Corp.	CNR-10D241K CNR-14D241K	150Vac, 200 Vdc, 85°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	Joyin Co., Ltd.	14S241K, 14N241K, 10S241K	150Vac, 200 Vdc, 85°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	Thinking Electronic Industrial Co., Ltd.	TVR10241 TVR14241, TVR10241-D, TVR14241-D, TVR10241-V, TVR14241-V	150Vac, 200 Vdc, 105°C, (flame class of body coating complied with V-0)	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternate)	Thinking Electronic Industrial Co., Ltd.	TVR10241-M, TVR14241-M	150Vac, 200 Vdc, 125°C, (flame class of body coating complied with V-0)	VDE
X-Capacitors (C1) (X1 or X2 type) (Optional)	LIOW GU ELECTRONICS INDUSTRY CO LTD	GS-L	Max. 0.68μ F, Min. 250Vac, Min. 110°C	VDE
(Alternate)	KEMET ELECTRONICS CORPORATION (ARCOTRONICS)	R.46	Max. 0.68μ F, Min. 275Vac, Min. 110°C	ENEC
(Alternate)	KEMET ELECTRONICS CORPORATION (ARCOTRONICS)	R.49	Max. 0.68μ F, Min. 310Vac, 110°C	ENEC
(Alternate)	EPCOS ELECTRONIC COMPONENTS S A	B3292#	Max. 0.68μ F, Min. 305Vac, 105°C	VDE
(Alternate)	ISKRA, d.d.	KNB1530	Max. 0.68μ F, Min. 275Vac, 100°C	VDE
(Alternate)	ISKRA, d.d.	KNB1560	Max. 0.68μ F, Min. 275Vac, Min. 110°C	VDE
(Alternate)	Cowell Fashion Co., Ltd. Pilkor Electronics	PCX2 335	Max. 0.68μ F, Min.275Vac, Min.100°C	VDE
(Alternate)	Cowell Fashion Co., Ltd. Pilkor Electronics	PCX2 337	Max. 0.68μ F, Min.275Vac, Min.100°C	VDE
(Alternate)	ULTRA TECH XIPHI ENTERPRISE CO LTD	HQX	Max. 0.68μ F, Min. 250Vac, 110°C	VDE
(Alternate)	CHENG TUNG INDUSTRIAL CO LTD	CTX	Max. 0.68μ F, 310Vac, 110°C	ENEC
(Alternate)	Hua Jung Components Co., Ltd.	MKP	Max. 0.68μ F, Min. 250Vac, 110°C	ENEC
(Alternate)	Carli Electronics Co., Ltd.	MPX	Max. 0.68μ F, Min. 275Vac, Min. 110°C	VDE
(Alternate)	Joey Electronics (Dong Guan) Co., Ltd.	MPX	Max. 0.68μ F, Min. 275Vac, 105°C	VDE
(Alternate)	Xiamen Faratronic Co. Ltd.	CKX	Max. 0.68μ F, Min. 250Vac, 110°C	ENEC
(Alternate)	Chiefcon Electronics Co., Ltd.	MKP62	Max. 0.68μ F, Min. 275Vac, 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
X-Capacitors (C2) (X1 or X2 type) (Optional)	LIOW GU ELECTRONICS INDUSTRY CO LTD	GS-L	Max. 0.47 μ F, Min. 250Vac, Min. 110°C	VDE
(Alternate)	KEMET ELECTRONICS CORPORATION (ARCOTRONICS)	R.46	Max. 0.47 μ F, Min. 275Vac, Min. 110°C	ENEC
(Alternate)	KEMET ELECTRONICS CORPORATION (ARCOTRONICS)	R.49	Max. 0.47 μ F, Min. 310Vac, 110°C	ENEC
(Alternate)	EPCOS ELECTRONIC COMPONENTS S A	B3292#	Max. 0.68 μ F, Min. 305Vac, 110°C	VDE
(Alternate)	ISKRA, d.d.	KNB1560	Max. 0.47 μ F, Min. 275Vac, Min. 110°C	VDE
(Alternate)	ULTRA TECH XIPHI ENTERPRISE CO LTD	HQX	Max. 0.47 μ F, Min. 250Vac, 110°C	VDE
(Alternate)	Hua Jung Components Co., Ltd.	MKP	Max. 0.47 μ F, Min. 250Vac, 110°C	ENEC
(Alternate)	Carli Electronics Co., Ltd.	MPX	Max. 0.68 μ F, Min. 275Vac, Min. 110°C	VDE
(Alternate)	Chiefcon Electronics Co., Ltd.	CKX	Max. 0.47 μ F, Min. 250Vac, Min. 110°C	ENEC
(Alternate)	Xiamen Faratronic Co. Ltd.	MKP62	Max. 0.47 μ F, Min. 275Vac, Min. 110°C	VDE
Y-Capacitor (C3, C4, C23, C24, C30, C129, C139) (Y1 or Y2 type) (Optional) C3=C4= max. 2200pF; C23=C24= max. 100pF; C30= max. 4700pF; C129=C139= max. 10000pF	MURATA MFG CO LTD	KX	Min. 250V, 125°C	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AH	Min. 250V, 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
(Alternate)	WALSIN TECHNOLOGY CORP	AC	Min. 250V, 125°C	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AS	Min. 250V, 125°C	VDE
(Alternate)	TDK CORPORATION	CD	Min. 250V, 125°C	VDE
(Alternate)	WELSON INDUSTRIAL CO LTD	WD	Min. 250V, 125°C	VDE
(Alternate)	VISHAY Electronic GmbH	VY1 Series	Min. 250V, 125°C	VDE
(Alternate)	VISHAY Electronic GmbH	WKP	Min. 250V, 125°C	VDE
(Alternate)	VISHAY Electronic GmbH	440L...	Min. 250V, 125°C	VDE
Choke (LF1) (Optional)	Mean Well	LF-5002	130°C	-
(Alternate)	Mean Well	LF-5010	130°C	-
Voltage Selector Switch (SW1)	Solteam Electronics Co., Ltd.	EV-12	10(1)A, 250Vac	ENEC
(Alternate)	Rong Feng Industrial Co., Ltd.	RF-1002B	10(1)A, 250Vac	ENEC
(Alternate)	Chily Precision Industrial Co., Ltd.	3331	5A, 250Vac	VDE
Optocouplers (U2, U3)	Lite-On Technology Corporation	LTV-817, LTV-817M, LTV-817S	Reinforced insulation	VDE
(Alternate)	Sharp Corporation Electronic Components and Devices Division	PC123	Reinforced insulation	VDE
(Alternate)	COSMO Electronics Corporation	K1010	Reinforced insulation	VDE
(Alternate)	Toshiba Electronic Devices & Storage Corporation	TLP781F	Reinforced insulation	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternate)	Toshiba Electronic Devices & Storage Corporation	TLP781	Reinforced insulation	VDE
(Alternate)	Everlight Electronics Co., Ltd.	EL817	Reinforced insulation	VDE
Bridging Capacitor (C31, C32) (Y1 or Y2 type) (Optional)	MURATA MFG CO LTD	KX	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AH	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AC	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AS	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	TDK CORPORATION	CD	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	WELSON INDUSTRIAL CO LTD	WD	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	VISHAY Electronic GmbH	VY1	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	VISHAY Electronic GmbH	WKP	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	VISHAY Electronic GmbH	440L...	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	Vishay Capacitors Belgium NV	338 6	Max. 3300pF, Min. 250Vac, 105°C	ENEC
Transformer (T1)	MEAN WELL	TF-5263A	Class B	-
Bleeder Resistor (R1, R2, R3)	Interchangeable	Interchangeable	Max. 120KΩ , min. 1/4 W, located after fuse, SMD type	-

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. Review Ref. No.: 19-071714-01-2(2019.11.26) 2. Product Description: - Measured Power Consumption: 175W - Insulation Class: Class I - Protection against Ingress of water: IPX0 - Mass of Equipment: 0.38 kg	
□ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토 담당자 : 고객지원본부 인증융합평가팀 장 재용 / 02-8601-137 □ If you have any question on product review, please contact the person below : Job holder: Customer Support Division, Certification Convergence Evaluation Team, 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 (21-080734-12-1 : 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

FP511-06

접 수 번 호 : 19-071714-01-1
(Receipt No.)



안전확인신고 증명서

Confirmation Letter of Declaration

신 고 번 호 : ZU101076-19001
(Application No.)

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

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

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

기 본 모 델 명 : LRS-150-12
(Basic Model)

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

정격/안전기준상의 모델구분 : AC 100-120/200-240 V, 50/60 Hz, 3.0/1.7 A, Class I
(Rating) (DC output: +12 V, 12.5 A)

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

본 확인신고는 제 조 국 명 : 중국

제조업자 명 : MEAN WELL (GUANGZHOU) ELECTRONICS CO., LTD HUADU BR
ANCH

제조공장의 주소 : No. 11 Jingu South Road, Huadong Town, Huadu District, Guangz
hou 510890, P. R. 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.

2019 년 11 월 26 일
Year month day

한국산업기술시험원
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 thick	-
Terminal Block (TB1)	Dinkle Enterprise Co Ltd	DT-45, DT-49	25A, 300V	UL
(Alternate)	Cixi Pans Automatic Control Equipment Fty	PT-49, PT-4C-25	25A, 300V	UL
(Alternate)	Degson Electronics Co Ltd	DG45	25 A, 300 V	UL
(Alternate)	Degson Electronics Co Ltd	DG46	30 A, 300 V	UL
(Alternate)	Dinkle Enterprise Co Ltd	DT-4	20A, 300V	UL
(Alternate)	Jite Industrial (Shenzhen) Co Ltd	BTB-654	20A, 300V	UL
(Alternate)	Switchlab Inc	T14, T34	20A, 300V	UL
(Alternate)	Switchlab Inc	MWX30	20A, 300V	UL
(Alternate)	Switchlab Inc	MWX100 series	16A, 300V	UL
(Alternate)	Switchlab Inc	T44	15A, 300V	UL
(Alternate)	Switchlab Inc	MA311	15A, 300V	UL
(Alternate)	Switchlab Inc	MA321	15A, 300V	UL
(Alternate)	Switchlab Inc	MA331	15A, 300V	UL
(Alternate)	Dinkle Enterprise Co Ltd	WK series	15A, 300V	UL
(Alternate)	Dinkle Enterprise Co Ltd	166	12A, 300V	UL
Primary Connector (CN1) (Provided when terminal block is not used)	Taiwan King Pin Terminal Co., Ltd.	P8950I-X8 (X8=02 to 24)	7 A, 250 Vac	TÜV, UL
PCB	Interchangeable	Interchangeable	V-1 or better, Min. 130 °C	UL
Fuse (FS1)	Conquer Electronics Co., Ltd.	MST	T5AL, 250Vac	VDE
(Alternate)	Ever Island Electric Co., Ltd. and Walter Electric	2010 Serie(s)	T5AL, 250Vac	VDE
(Alternate)	Littelfuse Inc.	369	T5AL, 250Vac	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternate)	Walter Electronic Co Ltd	TAP	T5AL, 250Vac	VDE
Varistor (ZNR1) (Optional)	Centra Science Corp.	CNR-10D471K, CNR-14D471K	300Vac, 385 Vdc, 85°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	Joyin Co., Ltd.	14S471K, 14N471K, 10S471K	300Vac, 385 Vdc, 85°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	Thinking Electronic Industrial Co., Ltd.	TVR10471, TVR10471-V, TVR10471-D, TVR14471, TVR14471-V, TVR14471-D	300Vac, 385 Vdc, 105°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	Thinking Electronic Industrial Co., Ltd.	TVR10471-M, TVR14471-M	300Vac, 385 Vdc, 105°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	TDK Electronics GmbH & Co OG	S10K300E2K1, S14K300	300Vac, 385 Vdc, Min.85°C, Coating material V- 1 min.	VDE
(Alternate)	Xiamen Wanming Electronics Co., Ltd.	10D471K, 14D471K	300Vac, 385 Vdc, 85°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	Walsin Technology Co., Ltd.	SR471K14D, SR471K14E	300Vac, 385 Vdc, 85°C, (flame class of body coating complied with V-0)	VDE
Varistor (ZNR5, ZNR6) (Optional)	Centra Science Corp.	CNR-10D241K CNR-14D241K	150Vac, 200 Vdc, 85°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	Joyin Co., Ltd.	14S241K, 14N241K, 10S241K	150Vac, 200 Vdc, 85°C, (flame class of body coating complied with V-0)	VDE
(Alternate)	Thinking Electronic Industrial Co., Ltd.	TVR10241 TVR14241, TVR10241-D, TVR14241-D, TVR10241-V, TVR14241-V	150Vac, 200 Vdc, 105°C, (flame class of body coating complied with V-0)	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternate)	Thinking Electronic Industrial Co., Ltd.	TVR10241-M, TVR14241-M	150Vac, 200 Vdc, 125°C, (flame class of body coating complied with V-0)	VDE
X-Capacitors (C1) (X1 or X2 type) (Optional)	LIOW GU ELECTRONICS INDUSTRY CO LTD	GS-L	Max. 0.68μ F, Min. 250Vac, Min. 110°C	VDE
(Alternate)	KEMET ELECTRONICS CORPORATION (ARCOTRONICS)	R.46	Max. 0.68μ F, Min. 275Vac, Min. 110°C	ENEC
(Alternate)	KEMET ELECTRONICS CORPORATION (ARCOTRONICS)	R.49	Max. 0.68μ F, Min. 310Vac, 110°C	ENEC
(Alternate)	EPCOS ELECTRONIC COMPONENTS S A	B3292#	Max. 0.68μ F, Min. 305Vac, 105°C	VDE
(Alternate)	ISKRA, d.d.	KNB1530	Max. 0.68μ F, Min. 275Vac, 100°C	VDE
(Alternate)	ISKRA, d.d.	KNB1560	Max. 0.68μ F, Min. 275Vac, Min. 110°C	VDE
(Alternate)	Cowell Fashion Co., Ltd. Pilkor Electronics	PCX2 335	Max. 0.68μ F, Min.275Vac, Min.100°C	VDE
(Alternate)	Cowell Fashion Co., Ltd. Pilkor Electronics	PCX2 337	Max. 0.68μ F, Min.275Vac, Min.100°C	VDE
(Alternate)	ULTRA TECH XIPHI ENTERPRISE CO LTD	HQX	Max. 0.68μ F, Min. 250Vac, 110°C	VDE
(Alternate)	CHENG TUNG INDUSTRIAL CO LTD	CTX	Max. 0.68μ F, 310Vac, 110°C	ENEC
(Alternate)	Hua Jung Components Co., Ltd.	MKP	Max. 0.68μ F, Min. 250Vac, 110°C	ENEC
(Alternate)	Carli Electronics Co., Ltd.	MPX	Max. 0.68μ F, Min. 275Vac, Min. 110°C	VDE
(Alternate)	Joey Electronics (Dong Guan) Co., Ltd.	MPX	Max. 0.68μ F, Min. 275Vac, 105°C	VDE
(Alternate)	Xiamen Faratronic Co. Ltd.	CKX	Max. 0.68μ F, Min. 250Vac, 110°C	ENEC
(Alternate)	Chiefcon Electronics Co., Ltd.	MKP62	Max. 0.68μ F, Min. 275Vac, 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
X-Capacitors (C2) (X1 or X2 type) (Optional)	LIOW GU ELECTRONICS INDUSTRY CO LTD	GS-L	Max. 0.47 μ F, Min. 250Vac, Min. 110°C	VDE
(Alternate)	KEMET ELECTRONICS CORPORATION (ARCOTRONICS)	R.46	Max. 0.47 μ F, Min. 275Vac, Min. 110°C	ENEC
(Alternate)	KEMET ELECTRONICS CORPORATION (ARCOTRONICS)	R.49	Max. 0.47 μ F, Min. 310Vac, 110°C	ENEC
(Alternate)	EPCOS ELECTRONIC COMPONENTS S A	B3292#	Max. 0.68 μ F, Min. 305Vac, 110°C	VDE
(Alternate)	ISKRA, d.d.	KNB1560	Max. 0.47 μ F, Min. 275Vac, Min. 110°C	VDE
(Alternate)	ULTRA TECH XIPHI ENTERPRISE CO LTD	HQX	Max. 0.47 μ F, Min. 250Vac, 110°C	VDE
(Alternate)	Hua Jung Components Co., Ltd.	MKP	Max. 0.47 μ F, Min. 250Vac, 110°C	ENEC
(Alternate)	Carli Electronics Co., Ltd.	MPX	Max. 0.68 μ F, Min. 275Vac, Min. 110°C	VDE
(Alternate)	Chiefcon Electronics Co., Ltd.	CKX	Max. 0.47 μ F, Min. 250Vac, Min. 110°C	ENEC
(Alternate)	Xiamen Faratronic Co. Ltd.	MKP62	Max. 0.47 μ F, Min. 275Vac, Min. 110°C	VDE
Y-Capacitor (C3, C4, C23, C24, C30, C129, C139) (Y1 or Y2 type) (Optional) C3=C4= max. 2200pF; C23=C24= max. 100pF; C30= max. 4700pF; C129=C139= max. 10000pF	MURATA MFG CO LTD	KX	Min. 250V, 125°C	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AH	Min. 250V, 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
(Alternate)	WALSIN TECHNOLOGY CORP	AC	Min. 250V, 125°C	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AS	Min. 250V, 125°C	VDE
(Alternate)	TDK CORPORATION	CD	Min. 250V, 125°C	VDE
(Alternate)	WELSON INDUSTRIAL CO LTD	WD	Min. 250V, 125°C	VDE
(Alternate)	VISHAY Electronic GmbH	VY1 Series	Min. 250V, 125°C	VDE
(Alternate)	VISHAY Electronic GmbH	WKP	Min. 250V, 125°C	VDE
(Alternate)	VISHAY Electronic GmbH	440L...	Min. 250V, 125°C	VDE
Choke (LF1) (Optional)	Mean Well	LF-5002	130°C	-
(Alternate)	Mean Well	LF-5010	130°C	-
Voltage Selector Switch (SW1)	Solteam Electronics Co., Ltd.	EV-12	10(1)A, 250Vac	ENEC
(Alternate)	Rong Feng Industrial Co., Ltd.	RF-1002B	10(1)A, 250Vac	ENEC
(Alternate)	Chily Precision Industrial Co., Ltd.	3331	5A, 250Vac	VDE
Optocouplers (U2, U3)	Lite-On Technology Corporation	LTV-817, LTV-817M, LTV-817S	Reinforced insulation	VDE
(Alternate)	Sharp Corporation Electronic Components and Devices Division	PC123	Reinforced insulation	VDE
(Alternate)	COSMO Electronics Corporation	K1010	Reinforced insulation	VDE
(Alternate)	Toshiba Electronic Devices & Storage Corporation	TLP781F	Reinforced insulation	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
(Alternate)	Toshiba Electronic Devices & Storage Corporation	TLP781	Reinforced insulation	VDE
(Alternate)	Everlight Electronics Co., Ltd.	EL817	Reinforced insulation	VDE
Bridging Capacitor (C31, C32) (Y1 or Y2 type) (Optional)	MURATA MFG CO LTD	KX	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AH	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AC	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	WALSIN TECHNOLOGY CORP	AS	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	TDK CORPORATION	CD	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	WELSON INDUSTRIAL CO LTD	WD	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	VISHAY Electronic GmbH	VY1	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	VISHAY Electronic GmbH	WKP	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	VISHAY Electronic GmbH	440L...	Max. 3300pF, Min. 250Vac, 125°C	VDE
(Alternate)	Vishay Capacitors Belgium NV	338 6	Max. 3300pF, Min. 250Vac, 105°C	ENEC
Transformer (T1)	MEAN WELL	TF-5263A	Class B	-
Bleeder Resistor (R1, R2, R3)	Interchangeable	Interchangeable	Max. 120KΩ , min. 1/4 W, located after fuse, SMD type	-

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. Review Ref. No.: 19-071714-01-2(2019.11.26) 2. Product Description: - Measured Power Consumption: 175W - Insulation Class: Class I - Protection against Ingress of water: IPX0 - Mass of Equipment: 0.38 kg	
☐ 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토 담당자 : BK 전략본부 인증관리센터 김 영환 / 02-8601-478 ☐ If you have any question on product review, please contact the person below : Job holder: BK Strategy Division, Certification Management Center, Young-Hwan Kim / +82 2 860-1478	

FP511-05

☐ 첨부 3 : 안전확인신고 내용의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions
Not applicable

FP511-06

☐ 첨부 : 제품사진
Photographs



