

접수번호 : 23-009761-02-1
(Receipt No.)



안전확인신고 증명서

Confirmation Letter of Declaration

신고번호 (Application No.) : ZU101076-23002
신고회사명 (Applicant) : MEAN WELL (Guangzhou) Electronics Co.,Ltd.
주소 (Address) : No.11 Jingu South Road, Huadu District, Guangzhou 510890, Guangdong, China
제품명 (Product) : 컴퓨터용 전원공급장치(Switching Power Supply)
기본모델명 (Basic Model) : LRS-600-48
파생모델명 (Series Model) : See the attachment 2
정격/안전기준상의 모델구분 (Rating) : Input: AC 100-120 V, 12 A, 50/60 Hz; 200-240 V, 7.5 A, 50/60 Hz; Output: DC 48 V, 12.5 A, 600 W;
안전기준 (Standard) : KC62368-1(2021-08)

본 확인신고는 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」 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.

2023년 03월 10일
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	--	--	Steel or aluminum. Min. 0.5 mm thickness.	-- , --
Terminal block (TB1)	DINKLE ENTERPRISE CO LTD	DT-4*1, DT-4(@201)	Rated 20 A, 300 V, min. 115 °C	UL
(Alternate)	DINKLE ENTERPRISE CO LTD	DT-45, DT-49	Rated 25 A, 300 V, min. 105 °C	UL
(Alternate)	Switchlab Inc	T14	Rated 25 A, 300 V, min. 140 °C	UL
(Alternate)	Switchlab Inc	T34	Rated 25 A, 300 V, min. 120 °C	UL
(Alternate)	Switchlab Inc	T44 series	Rated 15 A, 300 V, min. 120 °C	UL
(Alternate)	CIXI PANS AUTOMATIC CONTROL EQUIPMENT FTY	PT-49(@2)	Rated 25 A, 300 V, min. 105 °C	UL
(Alternate)	CIXI PANS AUTOMATIC CONTROL EQUIPMENT FTY	PT-4C-25(@2)	Rated 25 A, 300 V, min. 135 °C	UL
(Alternate)	NINGBO DEGSON ELECTRICAL CO LTD	DG46*oo1	Rated 30 A, 300 V, min. 105 °C	UL
Fuse (FS1)	Conquer Electronics Co Ltd	UBM-A, UBM-A series	Rated F16 AH, 250 Vac	TUV
(Alternate)	LITTELFUSE INC	216*+, 216016	Rated F16 AH, 250 Vac	TUV
Varistor (ZNR1) (Optional)	Thinking Electronic Industrial Co Ltd	TVR10471-V, TVR10511-V, TVR10561-V, TVR14471-V, TVR14511-V, TVR14561-V	Min. 300 Vac, min. 385 Vdc (Flame class of body coating complied with V-0), 105 °C, min 3KV/1.5KA	TUV
(Alternate)	Thinking Electronic Industrial Co., Ltd.	TVR10471-D, TVR14471-D, TVR10511-D, TVR14511-D, TVR10561-D, TVR14561-D	Min. 300 Vac, min. 385 Vdc (Flame class of body coating complied with V-0), 105 °C, min 4KV/2KA	TUV

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.	TVR14471-M, TVR14511-M, TVR14561-M	Min. 300 Vac, min. 385 Vdc (Flame class of body coating complied with V-0), 125 °C, min 6KV/3KA	VDE
(Alternate)	Thinking Electronic Industrial Co., Ltd.	TVR14471, TVR14511, TVR14561,	Min. 300 Vac, min. 385 Vdc (Flame class of body coating complied with V-0), 105 °C min 6KV/3KA	TUV
(Alternate)	Joyin Co., Ltd.	10S471K, 10S511K, 10S561K, 14S471K, 14S511K, 14S561K	Min. 300 Vac, min. 385 Vdc (Flame class of body coating complied with V-0), 85 °C, min 6KV/3KA	VDE
(Alternate)	Joyin Co., Ltd.	10N471K, 10N511K, 10N561K, 14N471K, 14N511K, 14N561K	Min. 300 Vac, min. 385 Vdc (Flame class of body coating complied with V-0), 85 °C, min 3KV/1.5KA	VDE
(Alternate)	Centra Science Corp	CNR-10D471K, CNR-10D511K, CNR-10D561K, CNR-14D471K, CNR-14D511K, CNR-14D561K	Min. 300 Vac, min. 385 Vdc (Flame class of body coating complied with V-0), 105 °C, min 3KV/1.5KA	VDE
(Alternate)	Guangdong Huiwan Electronics Technology Co Ltd	V-471K-10EH V-471K-14EH V-471K-20EH	Min. 300 Vac, min. 385 Vdc (Flame class of body coating complied with V-0), 105 °C, min 6KV/3KA	VDE
Bleeder resistor (R1, R2)	TZAI YUAN ENTERPRISE CO LTD	SMD	Each rated max. 150Kohm, min. 1/4 W.	UL
(Alternate)	WALSIN TECHNOLOGY CORP	WF12N	Each rated max. 150Kohm, min. 1/4 W.	UL
(Alternate)	Ever Ohms Technology Co Ltd	HR1206*****	Each rated max. 150Kohm, min. 1/4 W.	UL

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
X-Cap (C1, C2) (Optional)	KEMET ELECTRONICS CORPORATION	R.46	Each rated max. 1.0 uF±20%, min. 250 V, 110 °C, X2 type	ENEC
(Alternate)	TDK (Zhuhai FTZ) Co., Ltd	B3292	Each rated max. 1.0 uF±20%, min. 250 V, 110 °C, X2 type	VDE
(Alternate)	LIOW GU ELECTRONICS INDUSTRY CO LTD	GS-L	Each rated max. 1.0 uF±20%, min. 250 V, 110 °C, X2 type	ENEC
(Alternate)	Ultra Tech XIPHI ENTERPRISE CO LTD	HQX	Each rated max. 1.0 uF±20%, min. 250 V, 110 °C, X2 type	VDE
(Alternate)	JOEY ELECTRONICS (DONG GUAN) CO LTD	MPX	Each rated max. 1.0 uF±20%, min. 250 V, 110 °C, X1 or X2 type	VDE
(Alternate)	CARLI ELECTRONICS CO LTD	MPX	Each rated max. 1.0 uF±20%, min. 250 V, 110 °C, X1 or X2 type	VDE
(Alternate)	Hua Jung COMPONENTS CO LTD	MKP	Each rated max. 1.0 uF±20%, min. 250 V, 110 °C, X2 type	ENEC
(Alternate)	Yangzhou Nissei Electronics Co., Ltd.	MP1	Each rated max. 1.0 uF±20%, min. 250 V, 110 °C, X2 type	VDE
X-Cap (C10) (Optional)	KEMET ELECTRONICS CORPORATION	R.46	Each rated max. 1.5 uF±20%, min. 250 V, 110 °C, X2 type	ENEC
(Alternate)	TDK (Zhuhai FTZ) Co., Ltd	B3292	Each rated max. 1.5 uF±20%, min. 250 V, 110 °C, X2 type	VDE
(Alternate)	LIOW GU ELECTRONICS INDUSTRY CO LTD	GS-L	Each rated max. 1.5 uF±20%, min. 250 V, 110 °C, X2 type	ENEC
(Alternate)	Ultra Tech XIPHI ENTERPRISE CO LTD	HQX	Each rated max. 1.5 uF±20%, min. 250 V, 110 °C, X2 type	VDE

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	Each rated max. 1.5 uF±20%, min. 250 V, 110 °C, X1 or X2 type	VDE
(Alternate)	CARLI ELECTRONICS CO LTD	MPX	Each rated max. 1.5 uF±20%, min. 250 V, 110 °C, X1 or X2 type	VDE
(Alternate)	Hua Jung COMPONENTS CO LTD	MKP	Each rated max. 1.5 uF±20%, min. 250 V, 110 °C, X2 type	ENEC
(Alternate)	Yangzhou Nissei Electronics Co., Ltd.	MP1	Each rated max. 1.5 uF±20%, min. 250 V, 110 °C, X2 type	VDE
Y-Cap (C3, C4, C23, C24) (Optional)	Xiamen Wanming Electronics Co., Ltd.	HJ	Max. 1000 pF,;min. 250 V, 125 °C. Y1 type.	VDE
(Alternate)	Murata Mfg. Co., Ltd.	KX	Max. 1000 pF,;min. 250 V, 125 °C. Y1 type.	VDE
(Alternate)	TDK Corporation	CD	Max. 1000 pF,;min. 250 V, 125 °C. Y1 type.	VDE
(Alternate)	Walsin Technology Corp.	AH	Max. 1000 pF,;min. 250 V, 125 °C. Y1 type.	VDE
(Alternate)	Walsin Technology Corp.	AS	Max. 1000 pF,;min. 250 V, 125 °C. Y1 type.	VDE
(Alternate)	VISHAY Electronic GmbH	VY1 Series	Max. 1000 pF,;min. 250 V, 125 °C. Y1 type.	VDE
(Alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AR	Max. 1000 pF,;min. 250 V, 125 °C. Y1 type.	VDE
(Alternate) (For C24)	Guangdong Huiwan Electronics Technology Co., Ltd.	AB Series	Max. 1000 pF,;min. 250 V, 125 °C. Y2 type.	VDE
(Alternate) (For C24)	Walsin Technology Corp.	AC	Max. 1000 pF,;min. 250 V, 125 °C. Y2 type.	VDE

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Y-Cap (C30,C31) (Optional)	Xiamen Wanming Electronics Co., Ltd.	HJ	Max. 2200 pF;min. 250 V, 125 °C. Y1 type.	VDE
(Alternate)	Murata Mfg. Co., Ltd.	KX	Max. 2200 pF;min. 250 V, 125 °C. Y1 type.	VDE
(Alternate)	TDK Corporation	CD	Max. 2200 pF;min. 250 V, 125 °C. Y1 type.	VDE
(Alternate)	Walsin Technology Corp.	AH	Max. 2200 pF;min. 250 V, 125 °C. Y1 type.	VDE
(Alternate)	Walsin Technology Corp.	AS	Max. 2200 pF;min. 250 V, 125 °C. Y1 type.	VDE
(Alternate)	VISHAY Electronic GmbH	VY1 Series	Max. 2200 pF;min. 250 V, 125 °C. Y1 type.	VDE
(Alternate)	Guangdong Huiwan Electronics Technology Co., Ltd.	AR	Max. 2200 pF;min. 250 V, 125 °C. Y1 type.	VDE
Line choke (LF1) (Optional)	Mean Well	TR-6249	Min. 130 °C	--
Voltage Select Switch (SW1)	RONG FENG INDUSTRIAL CO LTD	RF-1002B	10 A, 250 V 85 °C	ENEC
(Alternate)	Solteam Electronics Co Ltd	EV-12, f/b L, f/b -2 or -3	10 A, 250 V 85 °C	ENEC
DC Fan	YEN SUN TECHNOLOGY CORP	FD126015HB	Rated 12 Vdc, 0.22 A, min. 24.1 CFM, secured to the top metal chassis by screws, fan leads covered with min. 0.4 mm thick tubing.	TUV
(Alternate)	Zhaoqing Shenghui Electronic Technology Co.,Ltd.	CHA6012BH- 15D	Rated 12 Vdc, 0.3 A, min. 22.39 CFM, secured to the top metal chassis by screws, fan leads covered with min. 0.4 mm thick tubing.	TUV

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
Relay (RY1)	Fujitsu Component Limited	FTR- K2AK012T	Rated contact: 16 A, 250 V, Coil: 12 Vdc. 70 °C, 10Kcycle	VDE
(Alternate)	Tyco Electronics Austria GmbH	RZL3-1C4- L012-R	Rated contact: 16 A, 250 V, Coil: 12 Vdc. 85 °C 10K cycle	VDE
(Alternate)	Tyco Electronics (Shenzhen) Co Ltd	OJS-SS- 112HEF OJS-SH- 112HEF	Rated contact: 16 A, 250 V, Coil: 12 Vdc. 85 °C 30K cycle	TUV
Photo coupler (U3, U4, U5)	LITE-ON Technology Corporation	LTV-817S	Reinforced insulation	VDE
(Alternate)	Vishay Semiconductor GmbH	TCLT1008	Reinforced insulation	VDE
(Alternate)	Everlight Electronics Co., Ltd.	EL817S	Reinforced insulation	VDE
(Alternate)	Lite-On Technology 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
(Alternate)	CT Micro International Corporation	CT81(X1)(X2)(X3) V (Y)(Z)- (H)(G)	Reinforced insulation	VDE
Transformer (T1) (For models LRS-600-12)	Mean Well	TF-7117	Class B.	Test with equipment
Transformer (T1) (For models LRS-600-15)	Mean Well	TF-7118	Class B.	Test with equipment
Transformer (T1) (For models LRS-600-24)	Mean Well	TF-7119	Class B.	Test with equipment
Transformer (T1) (For models LRS-600-27)	Mean Well	TF-7120	Class B.	Test with equipment
Transformer (T1) (For models LRS-600-36)	Mean Well	TF-7121	Class B.	Test with equipment
Transformer (T1) (For models LRS-600-48)	Mean Well	TF-7122	Class B.	Test with equipment

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 Rating or Characteristics	인증마크 Tested by
PWB	Interchangeable	Interchangeable	V-1 or better, min. 130 °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)
LRS-600-12	It is identical to basic model except for model designation, input current, output ratings, transformer (T1) construction, PWB layout, and secondary circuit diagram. (Output: DC 12 V, 50 A)
LRS-600-15	It is identical to basic model except for model designation, input current, output ratings, transformer (T1) construction, PWB layout, and secondary circuit diagram. (Output: DC 15 V, 40 A)
LRS-600-24	It is identical to basic model except for model designation, input current, output ratings, transformer (T1) construction, PWB layout, and secondary circuit diagram. (Output: DC 24 V, 25 A)
LRS-600-27	It is identical to basic model except for model designation, input current, output ratings, transformer (T1) construction, PWB layout, and secondary circuit diagram. (Output: DC 27 V, 22.2 A)
LRS-600-36	It is identical to basic model except for model designation, input current, output ratings, transformer (T1) construction, PWB layout, and secondary circuit diagram. (Output: DC 36 V, 16.6 A)
제품특기사항 및 시험조건 Remarks & Test conditions	
<p>1. Review Ref. No.: 23-009761-02-2 - DEKRA Ref. No.: 4399203.51</p> <p>2. Product Description:</p> <ul style="list-style-type: none"> - Measured Power Consumption: 649.37 W - Insulation Class: Class I - Protection against Ingress of water: IPX0 - Mass of Equipment: Max. 0.95 kg 	
<p><input type="checkbox"/> 본 제품의 검토내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 검토 담당자 : 고객지원본부 인증융합평가센터 장 재용 / 02-8601-137</p> <p><input type="checkbox"/> <i>If you have any question on product review, please contact the person below :</i> <i>Job holder: Customer Support Division, Certification Convergence Evaluation Center, J.Y. Jang / +82 2 860-1137</i></p>	

FP511-05

첨부 3 : 안전확인신고 내용의 변경 현황
Revisions Status

변경발급 내용 Contents of Certificate Revisions
Not applicable

FP511-06

첨부 : 제품사진
Photographs



