



안전확인신고 증명서

Confirmation Letter of Declaration

신고 번호 : YU10059-22004
(Application No.)

신고 회사명 : ShenZhen HuiLi Electronics CO.,LTD
(Applicant)

주소 : Building C4-C11, No. 352, LiuTang Rd., County 73, Bu'Xin Village, Xin'an, Bao'an, Shenzhen, Guangdong, China
(Address)

제품명 : 컴퓨터용 전원공급장치
(Product) Power Supply for Computer

기본모델명 : HA2-850
(Basic Model)

파생모델명 : FSP850-50AAC
(Series Model)

정격/안전기준상의모델구분 : (200 - 240) V~, (50 - 60) Hz, 6 A (DC O/P: +3.3 V, 20 A; +5 V, 20 A; +12 V, 70.83 A; +5 Vsb, 3.0 A; -12 V, 0.3 A; +3.3V & +5V total output not exceed 100 W Max; Total output continuous shall not exceed 850 W)
(Rating)

안전기준 : K60950-1(2011-12)
(Standard)

본 확인신고는 제조국명 : 중국

제조업자명 : ShenZhen HuiLi Electronics CO.,LTD의 제품에만 해당함

제조공장의 주소 : Building C4-C11, No. 352, LiuTang Rd., County 73, Bu'Xin Village, Xin'an, Bao'an, Shenzhen, Guangdong, China

「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 appliances in accordance with Article 28(1), 28(3), 29(2) or 34(2) of the Electrical Appliances and Consumer Products Safety Control Act.

2022년 05월 17일
year month day

KTR 한국화학융합시험연구원
KOREA TESTING & RESEARCH INSTITUTE



※ 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)



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[붙임 1 : 전기용품의 안전관리부품 및 재질목록]
[Attachment 1 : List of Critical Components]

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
Appliance Inlet (C14 type)	HCR Electronics Co., Ltd.	SK01	250 V~, 10 A	CBTR Evaluation
Alt.	Rong Feng Industrial Co., Ltd.	SS-120	250 V~, 10 A	CBTR Evaluation
Alt.	Rong Feng Industrial Co., Ltd.	SS-7B	250 V~, 10 A	CBTR Evaluation
Alt.	Canal Electronic Co., Ltd.	KS-101, KS-201, KS-202, KS-303, KS-406	250 V~, 10 A	CBTR Evaluation
Alt.	Solteam Electronics Co., Ltd.	ST-01	250 V~, 10 A	CBTR Evaluation
Alt.	Zhe Jiang Bei Er Jia Electronic Co., Ltd.	ST-A01-001L, ST-A01-002L, ST-A01-003J, ST-A01-003K	250 V~, 10 A	CBTR Evaluation
Alt.	Inalways Corporation	0714 Series	250 V~, 10 A	CBTR Evaluation
Alt.	Rich Bay Co., Ltd.	R-301SN	250 V~, 10 A	CBTR Evaluation
Alt.	Tecx-Unions Technology Corp.	TU-301-A, TU-301-AP, TU-301-AP-A, TU-301-S, TU-301-SP series	250 V~, 10 A	CBTR Evaluation
Y-Capacitor (CY5, CY6) (Y1 type only) (Optional) (soldered on Appliance Inlet)	Walsin Technology Corp.	AH, Series AS	Min. 250 V, max. 2 200 pF	CBTR Evaluation
Alt.	TDK Corporation	CD, CD (miniature series)	Min. 250 V, max. 2 200 pF	CBTR Evaluation
Alt.	Murata Mfg Co., Ltd.	KX	Min. 250 V, max. 2 200 pF	CBTR Evaluation
Alt.	Murata Mfg Co., Ltd.	RA-series	Min. 250 V, max. 2 200 pF	CBTR Evaluation

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부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
Alt.	Success Electronics Co., Ltd.	SB, SE, SF	Min. 250 V, max. 2 200 pF	CBTR Evaluati on
Alt.	Yinan Don's Electronic Component Co., Ltd.	CT81	Min. 250 V, max. 2 200 pF	CBTR Evaluati on
Alt.	Guangdng Huiwan Electronics Technology Co., Ltd.	AR, AR series	Min. 250 V, max. 2 200 pF	CBTR Evaluati on
I/O Switch	Canal Electronic Co., Ltd.	MR-2	250 V, 10 A	CBTR Evaluati on
Alt.	Canal Electronic Co., Ltd.	MR6 series	250 V~, 12 A or 16 A	CBTR Evaluati on
Alt.	Canal Electronic Co., Ltd.	R Series	250 V~, 16 A	CBTR Evaluati on
Alt.	Canal Electronic Co., Ltd.	MR Series	250 V~, 12 A or 16 A	CBTR Evaluati on
Alt.	Canal Electronic Co., Ltd.	MR2 series	250 V~, 10 A or 16 A	CBTR Evaluati on
Alt.	Chily Precision Industrial Co., Ltd.	3024 series	250 V~, 16 A	CBTR Evaluati on
Alt.	Rong Feng Industrial Co., Ltd.	RF-1004	250 V~, 10 A or 16 A	CBTR Evaluati on
Alt.	Rong Feng Industrial Co., Ltd.	RF-1003	250 V~, 10 A	CBTR Evaluati on
Alt.	Solteam Electronics Co., Ltd.	MR-22 series	250 V~, 12 A	CBTR Evaluati on
Alt.	Solteam Electronics Co., Ltd.	MR-21 series	250 V~, 10 A	CBTR Evaluati on
Fuse (F1)	Suzhou Walter Electronic Co., Ltd.	TSC-Series(s)	250 V~, T15 AH	-
Alt.	Suzhou Walter Electronic Co., Ltd.	FSC-Series(s)	250 V~, T15 AH	-

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[붙임 1 : 전기용품의 안전관리부품 및 재질목록]

[Attachment 1 : List of Critical Components]

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
X-Capacitor (CX1) (X1 or X2 type) (Optional)	Ultra Tech Xiphi Enterprise Co Ltd	HQX	Min. 250 V~, max. 0.47 μ F	CBTR Evaluation
Alt.	Carli Electronics Co., Ltd.	MPX	Min. 250 V~, max. 0.47 μ F	CBTR Evaluation
Alt.	ZhuHai Sung Ho Electronics Co., Ltd.	CMPP	Min. 250 V~, max. 0.47 μ F	CBTR Evaluation
Alt.	Okaya Electric Industries Co., Ltd.	LE-(*)	Min. 250 V~, max. 0.47 μ F	CBTR Evaluation
Alt.	Okaya Electric Industries Co., Ltd.	RE-Series	Min. 250 V~, max. 0.47 μ F	CBTR Evaluation
Alt.	Hua Jung Components Co., Ltd.	MKP	Min. 250 V~, max. 0.47 μ F	CBTR Evaluation
Alt.	Iskra d.o.o.	KNB1530	Min. 250 V~, max. 0.47 μ F	CBTR Evaluation
Alt.	Iskra d.o.o.	KNB1560, KNB1563, KNB1562	Min. 250 V~, max. 0.47 μ F	CBTR Evaluation
Alt.	Shiny Space Enterprise Co., Ltd.	SX1	Min. 250 V~, max. 0.47 μ F	CBTR Evaluation
Alt.	Kemet Electronics Corporation	R.46	Min. 250 V~, max. 0.47 μ F	CBTR Evaluation
Choke (L1, L3) (Optional)	FSP/SPI	8LM05203	130 $^{\circ}$ C min.	-
Varistor (RV1) (Optional)	Thinking Electronic Industrial Co., Ltd.	TVR10471-D, TVR10471-V, TVR10471-M, TVR14471, TVR14471-D, TVR14471-V, TVR14471-M, TVR20471, TVR20471-D, TVR20471-M	300 V~, 385 Vd.c.	-

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[붙임 1 : 전기용품의 안전관리부품 및 재질목록]
[Attachment 1 : List of Critical Components]

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
Alt.	Thinking Electronic Industrial Co., Ltd.	TVR10511-D, TVR10511-V, TVR10511-M, TVR14511, TVR14511-D, TVR14511-V, TVR14511-M, TVR20511, TVR20511-D, TVR20511-M	320 V~, 410 Vd.c.	-
Alt.	Thinking Electronic Industrial Co., Ltd.	TVR10561-D, TVR10561-V, TVR10561-M, TVR14561, TVR14561-D, TVR14561-V, TVR14561-M, TVR20561, TVR20561-D, TVR20561-M	350 V~, 450 Vd.c.	-
Alt.	Thinking Electronic Industrial Co., Ltd.	TVR10621-D, TVR10621-V, TVR10621-M, TVR14621, TVR14621-D, TVR14621-V, TVR14621-M, TVR20621, TVR20621-D, TVR20621-M	395 V~, 510 Vd.c.	-
Alt.	Thinking Electronic Industrial Co., Ltd.	TVR10681-D, TVR10681-V, TVR10681-M, TVR14681, TVR14681-D, TVR14681-V, TVR14681-M, TVR20681, TVR20681-D, TVR20681-M	420 V~, 560 Vd.c.	-

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[Attachment 1 : List of Critical Components]

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
Alt.	Thinking Electronic Industrial Co., Ltd.	TVR10751-D, TVR10751-V, TVR10751-M, TVR14751, TVR14751-D, TVR14751-V, TVR14751-M, TVR20751, TVR20751-D, TVR20751-M	465 V~, 615 Vd.c.	-
Alt.	Guangxi New Future Information Industry Co., Ltd.	10D471K, 14D471K, 20D471K	300 V~, 385 Vd.c.	-
Alt.	Guangxi New Future Information Industry Co., Ltd.	10D511K, 14D511K, 20D511K	320 V~, 415 Vd.c.	-
Alt.	Guangxi New Future Information Industry Co., Ltd.	10D561K, 14D561K, 20D561K	350 V~, 460 Vd.c.	-
Alt.	Guangxi New Future Information Industry Co., Ltd.	10D621K, 14D621K, 20D621K	385 V~, 505 Vd.c.	-
Alt.	Guangxi New Future Information Industry Co., Ltd.	10D681K, 14D681K, 20D681K	420 V~, 560 Vd.c.	-
Alt.	Guangxi New Future Information Industry Co., Ltd.	14D751K	460 V~, 615 Vd.c.	-
Alt.	TDK Electronics GmbH & Co OG	S10K300E2K1, S14K300, S14K300E2, S14K300E2K1, S20K300, S20K300E2, S20K300E3K1	300 V~, 385 Vd.c.	-
Alt.	TDK Electronics GmbH & Co OG	S10K320E2K1, S14K320, S14K320E2, S14K320E2K1, S20K320, S20K320E2, S20K320E3K1	320 V~, 420 Vd.c.	-
Alt.	TDK Electronics GmbH & Co OG	S10K350E2K1, S14K350E2K1, S20K350E3K1	350 V~, 460 Vd.c.	-

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[Attachment 1 : List of Critical Components]

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
Alt.	TDK Electronics GmbH & Co OG	S10K385E2K1, S14K385, S14K385E2, S14K385E2K1, S20K385, S20K385E2, S20K385E3K1	385 V~, 505 Vd.c.	-
Alt.	TDK Electronics GmbH & Co OG	S10K420E2K1, S14K420, S14K420E2, S14K420E2K1, S20K420, S20K420E2, S20K420E3K1	420 V~, 560 Vd.c.	-
Alt.	TDK Electronics GmbH & Co OG	S14K440, S20K440	440 V~, 585 Vd.c.	-
Alt.	TDK Electronics GmbH & Co OG	S10K460E2K1, S14K460, S14K460E2, S14K460E2K1, S20K460, S20K460E2, S20K460E3K1	460 V~, 615 Vd.c.	-
Y-Capacitor (CY1, CY2, CY4) (Y1 type only) (Optional)	Walsin Technology Corp.	AH, Series AS	Min. 250 V, max. 2 200 pF	CBTR Evaluation
Alt.	TDK Corporation	CD, CD (miniature series)	Min. 250 V, max. 2 200 pF	CBTR Evaluation
Alt.	Murata Mfg Co., Ltd.	KX	Min. 250 V, max. 2 200 pF	CBTR Evaluation
Alt.	Murata Mfg Co., Ltd.	RA-series	Min. 250 V, max. 2 200 pF	CBTR Evaluation
Alt.	Success Electronics Co., Ltd.	SB, SE, SF	Min. 250 V, max. 2 200 pF	CBTR Evaluation
Alt.	Yinan Don's Electronic Component Co., Ltd.	CT81	Min. 250 V, max. 2 200 pF	CBTR Evaluation
Alt.	Guangdong Huiwan Electronics Technology Co., Ltd.	AR, AR Series	Min. 250 V, max. 2 200 pF	CBTR Evaluation

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[붙임 1 : 전기용품의 안전관리부품 및 재질목록] [Attachment 1 : List of Critical Components]				
부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
Y-Capacitor (CY7) (Y1 type only) (Optional)	Walsin Technology Corp.	AH, Series AS	Min. 250 V, max. 4 700 pF	CBTR Evaluation
Alt.	TDK Corporation	CD, CD (miniature series)	Min. 250 V, max. 4 700 pF	CBTR Evaluation
Alt.	Murata Mfg Co., Ltd.	KX	Min. 250 V, max. 4 700 pF	CBTR Evaluation
Alt.	Murata Mfg Co., Ltd.	RA-series	Min. 250 V, max. 4 700 pF	CBTR Evaluation
Alt.	Success Electronics Co., Ltd.	SE, SF	Min. 250 V, max. 4 700 pF	CBTR Evaluation
Alt.	Yinan Don's Electronic Component Co., Ltd.	CT81	Min. 250 V, max. 4 700 pF	CBTR Evaluation
Alt.	Guangdong Huiwan Electronics Technology Co., Ltd.	AR, AR Series	Min. 250 V, max. 4 700 pF	CBTR Evaluation
PFC Choke (L10)	FSP/SPI	8LM06103	130 °C min.	-
Drive Transformer (T3)	FSP/SPI	8TA01207	130 °C min.	-
Transformer (T1)	FSP/SPI	8TG01130	Class B	-
Transformer (T2)	FSP/SPI	8TA01438	Class B	-
Photo Coupler (M3, M5, M2)	Cosmo Electronics Corp	KT10XX (XX=00-ZZ)	Dti=0.7 mm	-
Alt.	Everlight Electronics Co., Ltd.	EL1018, EL1019	Dti= min. 0.4 mm	-
Alt.	Lite-On Technology Corporation	LTV-1007, LTV-1008, LTV-1009	Dti = 0.4 mm min.	-
Alt.	Vishay Semiconductor GmbH	TCLT1008	Dti = 0.4 mm min.	-
Alt.	Vishay Semiconductor GmbH	VOL617A	Dti=0.43 mm	-
Alt.	Vishay Semiconductor GmbH	SFH617A-..	Dti=0.6 mm	-

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[붙임 1 : 전기용품의 안전관리부품 및 재질목록]

[Attachment 1 : List of Critical Components]

부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
Alt.	Vishay Semiconductor GmbH	TCET1103G, TCET1104G, TCET1108G, TCET1109G, TCET1114G	Dti=0.5 mm	-
Alt.	Vishay Semiconductor GmbH	TCET1109	Dti=0.5 mm	-
Alt.	CT Micro International Corporation	CT817A, CT817B, CT817C	Dti=0.4 mm	-
Alt.	CT Micro International Corporation	CT1017, CT1018, CT1019	Dti=0.4 mm	-
Alt.	Everlight Electronics Co., Ltd.	EL817, EL817S, EL817S1	Dti = min. 0.4 mm	-
Alt.	Everlight Electronics Co., Ltd.	EL817M, EL817M2, EL817S2	Dti = min. 0.4 mm	-
Alt.	Lite-On Technology Corporation	LTV-817	Dti=0.4 mm	-
Alt.	Lite-On Technology Corporation	LTV-817S	Dti=0.6 mm	-
Alt.	Lite-On Technology Corporation	LTV-817M	Dti=0.4 mm	-
Alt.	Sharp Corporation Electronic Components and Devices Division	PC123	Dti=0.4 mm	-
Alt.	Toshiba Electronic Devices	TLP781F, TLP781	Dti=0.5 mm	-
Alt.	CRM ICBG (Wuxi) Co., Ltd.	PC817x	Dti=0.4 mm min.	-
DC Fan (One provided)	Dongguan Protechnic Electric Co., Ltd.	MGA12012XS-O2 5	12 Vd.c., 0.52 A	-
Alt.	Dongguan Protechnic Electric Co., Ltd.	MGA12012XR-O2 5	12 Vd.c., 0.52 A	-
Alt.	Dongguan Protechnic Electric Co., Ltd.	MGA12012XB-O2 5	12 Vd.c., 0.52 A	-
Alt.	Yate Loon Electronics Co., Ltd	D12SH-12	12 Vd.c., 0.30 A	-

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[붙임 1 : 전기용품의 안전관리부품 및 재질목록] [Attachment 1 : List of Critical Components]				
부품명(회로기호) Component(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical data)	인증마크 (Mark(s))
Alt.	Yate Loon Electronics Co., Ltd	D12BH-12	12 Vd.c., 0.30 A	-
Alt.	HeYuan YongJia Industry Co., Ltd.GJIA	AS12025V12	12 Vd.c., 0.36 A	-
Metal Chassis	Interchangeable	Interchangeable	0.7 mm thickness min.	-
Bleeder Resistor (RX1, RX2, RX3, RX4)	Interchangeable	Interchangeable	Each rated 2 MΩ, min. 1/4 W.	-
PCB	Interchangeable	Interchangeable	V-0 or better, 130 ℃ min.	-
※ 주의사항(Attention) 1. 안전관리부품은 전기적인 안전에 직접적인 영향을 주는 부품으로서 안전인증기관이 정기공장 검사시 확인 및 관리하는 사항입니다. 따라서 상기목록에 기재된 사항을 변경하거나 또는 복수등재를 원하시는 경우는 안전인증기관에 인증변경 신청을 하여야 합니다. (As the critical components and parts are directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying for multiple listings or changes for the items above, the certification revision shall be applied.) 2. 인증변경신청 없이 임의로 변경하는 경우는 전기용품 및 생활용품 안전관리법 제11조 및 제20조 제1항의 규정에 의한 안전인증 취소사유가 됨을 유의하시기 바랍니다. (The safety certification will be cancelled under the Electrical Appliances and Consumer Products Safety Control Act, Clause 1 of Article 11 and 20 if the contents of the certification are altered without prior authorization.)				

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[붙임 2 : 기본모델 · 파생모델의 내용]

[Attachment 2 : General Description of Certified Products]

파생모델명 (Series model(s))	기본모델과의 차이점 (Difference between the basic and variant models)	비고 (Remarks)
FSP850-50AAC	o Different model name from basic model	

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[붙임 2 : 기본모델 · 파생모델의 내용]

[Attachment 2 : General Description of Certified Products]

제품 및 시험특기사항 (Features and Specifications)

o Characteristics

- This appliance is a power supply for Computer

o Specifications

- Rating : (200 - 240) V~, (50 - 60) Hz, 6 A (DC O/P: +3.3 V, 20 A; +5 V, 20 A; +12 V, 70.83 A; +5 Vsb, 3.0 A; -12 V, 0.3 A; +3.3V & +5V total output not exceed 100 W Max; Total output continuous shall not exceed 850 W)
- Rating time : Continuous
- Protection grade against electric shock : Class I
- Appliance movement : for building-in appliance
- IP Grade : IPX0
- Appliance weight : about 1,6 kg max.

※ 본 제품의 시험내용에 관하여 의문사항이 있으시면 아래 연락처로 문의하여 주시기 바랍니다.

시험담당자 연락처 : Tel : 02-2164-1426 Fax : 02-507-8397

(If you have any questions on product testing contents, please contact the following : Tel : 82-2-2164-1426 Fax : 82-2-507-8397)

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〈사진1〉



〈사진2〉



□별첨 5 : 표시사항 및 주의 또는 경고문구
Marking plate and caution or warning

표시사항
(Marking plate)



Y000000-00000

품명 : 컴퓨터용 전원공급장치

모델명 : HA2-850

정격 : (200 - 240) V~, (50 - 60) Hz, 6 A (DC O/P: +3.3 V, 20 A; +5 V, 20 A; +12 V, 70.83 A; +5 Vsb, 3.0 A; -12 V, 0.3 A; +3.3V & +5V total output not exceed 100 W Max; Total output continuous shall not exceed 850 W)

제조년월 : xxxx. xx.

제조사 : ShenZhen HuiLi Electronics CO.,LTD

제조국가 : 중국

A/S 전화 : 000-000-0000

주의 또는 경고문구
(Caution or Warning)

- 콘센트에 삽입된 플러그에 무거운 물건을 올리거나, 힘을 가하지 말 것.
- 습기가 많은 장소 및 물이 될 염려가 있는 장소에서 사용하지 말 것.
- 분해 및 개조 하지 말 것.
- 제품을 던지거나 충격을 주지 말 것.
- 기기 근처에 콘센트가 있어야 하고 그 콘센트에 쉽게 접근 할 수 있어야 할 것.
- 제품을 화기 가까이에 두지 말 것.