



全漢企業股份有限公司

安規證書

料號 :
Model Name : FSP1600-20FM
版次 : 03
文件編號 : SFD-00003239
作者 : doration/田婷瑋(FSP)
Model No/Type : FSP1600-20FM
SFA NO. : -
Trade mark : -
安規種類 : KC/資訊類
發行日期 : 2019/07/26 13:50:33
備註 : Safety證書更新

7843-AE32-3B37-82DB

방송통신기자재등의 적합등록 필증

Registration of Broadcasting and Communication Equipments

상호 또는 성명 Trade Name or Registrant	ShenZhen HuiLi Electronics CO., LTD
기자재명칭(제품명칭) Equipment Name	Switching Power Supply
기본모델명 Basic Model Number	FSP1600-20FM
파생모델명 Series Model Number	
등록번호 Registration No.	R-R-Fsp-FSP1600-20FM
제조사/제조(조립)국가 Manufacturer/Country of Origin	ShenZhen HuiLi Electronics CO., LTD / 중국
등록연월일 Date of Registration	2019-02-28
기타 Others	

위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.
It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2019년(Year) 02월(Month) 28일(Day)

국립전파연구원장



Director General of National Radio Research Agency

※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다.
위반시 과태료 처분 및 등록이 취소될 수 있습니다.

접수번호 : CKC-2019-005130



안전확인신고 증명서 Confirmation Letter of Declaration

신 고 번 호 : YU10059-19003A
(Application No.)

신 고 회 사 명 : ShenZhen HuiLi Electronics CO.,LTD
(Applicant)

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

제 품 명 : 컴퓨터용 전원공급장치
(Product) Power Supply for Computer

기 본 모 델 명 : FSP1600-20FM
(Basic Model)

파 생 모 델 명 : 없음(None)
(Series Model)

정격/안전기준상의모델구분 : (100 - 240) V~, (50 - 60) Hz, (12 - 7) A or 240 Vd.c. 8 A (DC-output: (100 - 240 V~) +12 V, 80.5 A, +12 Vsb, 3 A Total output continuous shall not exceed 1 000 W (240 Vd.c.) + 12 V, 130.4 A, + 12 Vsb, 3 A Total output continuous shall not exceed 1 600 W
(Rating)

안 전 기 준 : 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.

2019년 07월 12일
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) 3. 안전확인신고 내용의 변경 현황(Revisions Status)
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KTR

※ 안전인증 시의 조건 : 동 제품의 생산 시 자체검사를 실시하고 안전인증 시 등록된
부품번호 및 외의 변경하지 말 것.



신고번호(Application No.) : YU10059-19003A

[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))
AC Inlet	Rong Feng Industrial Co., Ltd.	RF-203	435 V~, 15 A (435 Vdc, 15A)	CBTR Evaluation
Alt.	Solteam Electronics Co., Ltd.	ST-01	250 V~, 10 A	CBTR Evaluation
Alt.	Rong Feng Industrial Co., Ltd.	SS-120	250 V~, 10 A	CBTR Evaluation
Y-Capacitor (CY100, CY101) (Y1 type only) (Soldered on appliance inlet) (Optional)	TDK Corporation.	CD (miniature series)	400 V~, Max. 1 500 pF	CBTR Evaluation
Alt.	Walsin Technology Corp.	AH	400 V~, Max. 1 500 pF	CBTR Evaluation
Alt.	Yinan Don's Electronic Component Co., Ltd.	CT81	400 V~, Max. 1 500 pF	CBTR Evaluation
Alt.	Success Electronics Co., Ltd.	SE, SF, SB	500 V~, Max. 1 500 pF	CBTR Evaluation
Alt.	Guangdong Huiwan Electronics Technology Co., LTD.	AR Series	500 V~, Max. 1 500 pF	CBTR Evaluation
Alt.	Murata Mfg. Co., Ltd.	RA-Series	500 V~, Max. 1 500 pF	CBTR Evaluation
Y-Capacitor (CY100, CY101) (Y1 type only) (Soldered on appliance inlet) (Optional)	Murata Mfg. Co., Ltd.	KX	300 V~, Max. 1 500 pF	CBTR Evaluation
Y-Capacitor (C114, C122) (Y1 type only) (Optional)	TDK Corporation.	CD (miniature series)	400 V~, Max. 2 200 pF	CBTR Evaluation
Alt.	Walsin Technology Corp.	AH	400 V~, Max. 2 200 pF	CBTR Evaluation

신고번호(Application No.) : YU10059-19003A

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Alt.	Yinan Don's Electronic Component Co., Ltd.	CT81	400 V~, Max. 2 200 pF	CBTR Evaluati on
Alt.	Success Electronics Co., Ltd.	SE, SB, SF	500 V~, Max. 2 200 pF	CBTR Evaluati on
Alt.	Guangdong Huiwan Electronics Technology Co., LTD.	AR Series	500 V~, Max. 2 200 pF	CBTR Evaluati on
Alt.	Murata Mfg. Co., Ltd.	RA-Series	500 V~, Max. 2 200 pF	CBTR Evaluati on
Y-Capacitor (C114, C122) (Y1 type only) (Optional)	Murata Mfg. Co., Ltd.	KX	300 V~, Max. 2 200 pF	CBTR Evaluati on
Bridge Capacitor (C102) (Y1 type only) (Optional)	Walsin Technology Corp.	AH	400 V~, Max. 3 300 pF	CBTR Evaluati on
Alt.	Yinan Don's Electronic Component Co., Ltd.	CT81	400 V~, Max. 3 300 pF	CBTR Evaluati on
Alt.	Success Electronics Co., Ltd.	SE, SB, SF	500 V~, Max. 3 300 pF	CBTR Evaluati on
Alt.	TDK Corporation.	CD (miniature series)	400 V~, Max. 3 300 pF	CBTR Evaluati on
Alt.	Guangdong Huiwan Electronics Technology Co., LTD.	AR Series	500 V~, Max. 3 300 pF	CBTR Evaluati on
Alt.	Murata Mfg. Co., Ltd.	RA-Series	500 V~, Max. 3 300 pF	CBTR Evaluati on
Bridge Capacitor (C102) (Y1 type only) (Optional)	Murata Mfg. Co., Ltd.	KX	300 V~, Max. 3 300 pF	CBTR Evaluati on
X-Capacitor (CX100) (X1 or X2 type) (Soldered on appliance inlet) (Optional)	ZhuHai Sung Ho Electronics Co. Ltd.	CMPP	310 V~, Max. 1.0 μF	CBTR Evaluati on

신고번호(Application No.) : YU10059-19003A

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Alt.	Arcotronics or Kemet Electronics Italia SRL	R.46	310 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.49	330 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.47	440 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	F872	480 V~, Max. 1.0 μ F	CBTR Evaluati on
X-Capacitor (CX100) (X1 or X2 type) (Soldered on appliance inlet) (Optional)	Iskra, D D	KNB 1530	300 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Iskra, D D	KNB 1560, KNB 1562, KNB 1563	300 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Carli Electronics Co., Ltd.	MPX	310 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	ZhuHai Sung Ho Electronics Co. Ltd.	CMPP	310 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.46	310 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Hua Jung Components Co., Ltd.	MKP	310 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Ultra Tech Xiphi Enterprise Co Ltd	HQX	310 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Okaya Electric Industries Co., Ltd.	LE(-*)	310 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.49	330 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	F871	330 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.47	440 V~, Max. 1.0 μ F	CBTR Evaluati on

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Alt.	Arcotronics or Kemet Electronics Italia SRL	F872	480 V~, Max. 1.0 μ F	CBTR Evaluati on
X-Capacitor (C117) (X1 or X2 type) (Optional)	ZhuHai Sung Ho Electronics Co. Ltd.	CMPP	310 V~ (560 Vdc), Max. 0.33 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.46	310 V~ (630 Vdc), Max. 0.33 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.49	330 V~ (800 Vdc), Max. 0.33 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.47	440 V~, Max. 0.33 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	F872	480 V~, Max. 0.33 μ F	CBTR Evaluati on
X-Capacitor (C117) (X1 or X2 type) (Optional)	Iskra, D D	KNB 1530	300 V~, Max. 0.33 μ F	CBTR Evaluati on
Alt.	Iskra, D D	KNB 1560, KNB 1562, KNB 1563	300 V~, Max. 0.33 μ F	CBTR Evaluati on
Alt.	Carli Electronics Co., Ltd.	MPX	310 V~, Max. 0.33 μ F	CBTR Evaluati on
Alt.	Okaya Electric Industries Co., Ltd.	LE(-*)	310 V~, Max. 0.33 μ F	CBTR Evaluati on
Alt.	ZhuHai Sung Ho Electronics Co. Ltd.	CMPP	310 V~, Max. 0.33 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.46	310 V~, Max. 0.33 μ F	CBTR Evaluati on
Alt.	Hua Jung Components Co., Ltd.	MKP	310 V~, Max. 0.33 μ F	CBTR Evaluati on
Alt.	Ultra Tech Xiphi Enterprise Co Ltd	HQX	310 V~, Max. 0.33 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.49	330 V~, Max. 0.33 μ F	CBTR Evaluati on

신고번호(Application No.) : YU10059-19003A

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Alt.	Arcotronics or Kemet Electronics Italia SRL	F871	330 V~, Max. 0.33 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.47	440 V~, Max. 0.33 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	F872	480 V~, Max. 0.33 μ F	CBTR Evaluati on
X-Capacitor (C118) (X1 or X2 type) (Optional)	ZhuHai Sung Ho Electronics Co. Ltd.	CMPP	310 V~ (560 Vdc), Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.46	310 V~(630 Vdc), Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.49	330 V~(800 Vdc), Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.47	440 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	F872	480 V~, Max. 1.0 μ F	CBTR Evaluati on
X-Capacitor (C118) (X1 or X2 type) (Optional)	Iskra, D D	KNB 1530	300 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Iskra, D D	KNB 1560, KNB 1562, KNB 1563	300 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Carli Electronics Co., Ltd.	MPX	310 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Okaya Electric Industries Co., Ltd.	LE(-*)	310 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	ZhuHai Sung Ho Electronics Co. Ltd.	CMPP	310 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.46	310 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Hua Jung Components Co., Ltd.	MKP	310 V~, Max. 1.0 μ F	CBTR Evaluati on

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Alt.	Ultra Tech Xiphi Enterprise Co Ltd	HQX	310 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.49	330 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	F871	330 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	R.47	440 V~, Max. 1.0 μ F	CBTR Evaluati on
Alt.	Arcotronics or Kemet Electronics Italia SRL	F872	480 V~, Max. 1.0 μ F	CBTR Evaluati on
Fuse (F100)	Suzhou Littelfuse OVS Ltd.	487	420 Vac/ 420 Vdc, F15AH or F16AH	-
Alt.	Conquer Electronics Co., Ltd.	UBF-A x series	420 Vac/ 420 Vdc, F15AH or F16AH	-
Alt.	Walter Electronics Co., Ltd.	FHP	420 Vac/ 420 Vdc, F15AH or F16AH	-
Varistor (VAR100) (Optional)	Thinking Electronic Industrial Co., Ltd.	TVR10561-D, TVR10561-V, TVR14561, TVR14561-D	350 Vac, 450 Vdc	-
Alt.	Thinking Electronic Industrial Co., Ltd.	TVR10621-D, TVR10621-V, TVR14621, TVR14621-D	395 Vac, 510 Vdc	-
Alt.	Thinking Electronic Industrial Co., Ltd.	TVR10681-D, TVR10681-V, TVR14681, TVR14681-D	420 Vac, 560 Vdc	-
Alt.	Thinking Electronic Industrial Co., Ltd.	TVR10751-D, TVR10751-V, TVR14751, TVR14751-D	465 Vac, 615 Vdc	-
Alt.	Guangxi New Future Information Industry Co., Ltd.	10D561K, 14D561K	350 Vac, 460 Vdc	-
Alt.	Guangxi New Future Information Industry Co., Ltd.	10D621K, 14D621K	385 Vac, 505 Vdc	-
Alt.	Guangxi New Future Information Industry Co., Ltd.	10D681K, 14D681K	420 Vac, 560 Vdc	-

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Alt.	Guangxi New Future Information Industry Co., Ltd.	14D751K	460 Vac, 615 Vdc	-
Alt.	EPCOS OHG	S10K350E2K1, S14K350E2K1	350 Vac, 460 Vdc	-
Alt.	EPCOS OHG	S10K385, S10K385E2, S10K385E2K1, S14K385, S14K385E2, S14K385E2K1	385 Vac, 505 Vdc	-
Alt.	EPCOS OHG	S10K420, S10K420E2, S10K420E2K1, S14K420, S14K420E2, S14K420E2K1	420 Vac, 560 Vdc	-
Alt.	EPCOS OHG	S10K440, S14K440	440 Vac, 585 Vdc	-
Alt.	EPCOS OHG	S10K460, S10K460E2, S10K460E2K1, S14K460, S14K460E2, S14K460E2K1	460 Vac, 615 Vdc	-
Optical Isolator (U107, U108, U202, U205, U207, U206, U209)	Lite-On Technology Corporation.	LTV-1008	Dti = 0.4 mm	-
Alt.	Lite-On Technology Corporation.	LTV-817	Dti = 0.6 mm	-
Alt.	Everlight Electronics Co., Ltd.	EL817.	Dti = 0.5 mm	-
Alt.	Everlight Electronics Co., Ltd.	EL1018, EL1019	Dti = 0.4 mm	-
Alt.	Renesas Electronics Corporation.	PS2381-1	Dti = 0.4 mm	-
Alt.	Renesas Electronics Corporation.	PS2561L-1, PS2561AL2-1	Dti = 0.4 mm	-
Alt.	Vishay Semiconductor GmbH	SFH617A-..	Dti = 0.6 mm	-
Alt.	Vishay Semiconductor GmbH	TCLT1008	Dti = 0.43 mm	-
Alt.	Cosmo Electronics Corp.	K10XX (XX=00-ZZ)	Dti = 0.7 mm	-

신고번호(Application No.) : YU10059-19003A

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Isolation IC (U101, U102)	Silicon Laboratories, Inc.	Si8238BD-D-IS	Ext. dcr = 7.6 mm	-
Line Choke (L102)	FSP/SPI	8LM05078	105 °C, min.	-
Line Choke (FL100)	FSP/SPI	8LM05515	105 °C, min.	-
PFC Choke (L103)	FSP/SPI	8LM05076	130 °C, min.	-
Transformer (T500) (Soldered on TF BOARD)	FSP/SPI	8TI01892	Class B	-
Transformer (T100)	FSP/SPI	8TI01830	Class B	-
Isolation Choke (CT100)	FSP/SPI	8LM05079	Class B	-
DC Fan (One provided)	Delta Electronics Inc.	FFB0412EN-00XXXXXX (X stand for A-Z, 0-9, "-" or blank for marketing purpose only)	12 Vd.c., 2.10 A	-
Bleeder Resistor (CR100) (Soldered on appliance inlet)	Yageo Components (Suzhou) Co. Ltd.	HHV-25	1 M Ω , min. 1/4 W	-
Alt.	Yageo Components (Suzhou) Co. Ltd.	HHV-50	1 M Ω , min. 1/2 W	-
Alt.	Yageo Components (Suzhou) Co. Ltd.	HHV50S	1 M Ω , min. 1/2 W	-
Alt.	Yageo Components (Suzhou) Co. Ltd.	HHV1SS	1 M Ω , min. 1 W	-
Alt.	Yageo Components (Suzhou) Co. Ltd.	HHV2SS	1 M Ω , min. 2 W	-
Relay (RY100)	Xiamen Hongfa Electroacoustics Co., Ltd.	HF32FV-G/12-HTF(590)(101)	277 V~, 10 A	-
Bleeder Resistor (R118, R119, R120, R171, R172, R173)	Uniroyal Electronics Industry Company Limited	HV SERIES	200 k Ω , min. 1/4 W	-
Alt.	Interchangeable	Interchangeable	200 k Ω , min. 1/4 W	-
PCB	Interchangeable	Interchangeable	V-1 or better, 105 °C min.	-
Metal chassis	Interchangeable	Interchangeable	0.8 mm min. thickness	-

신고번호(Application No.) : YU10059-19003A

[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))
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※ 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 안전인증 기관에 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.)

신고번호(Application No.) : YU10059-19003A

[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)
제품 및 시험특기사항 (Features and Specifications) o Characteristics - This appliance is a Power supply for Computer o Specifications - Rating : (100 - 240) V~, (50 - 60) Hz, (12 - 7) A or 240 Vd.c. 8 A (DC-output: (100 - 240 V~) +12 V, 80.5 A, +12 Vsb, 3 A Total output continuous shall not exceed 1 000 W (240 Vd.c.) + 12 V, 130.4 A, + 12 Vsb, 3 A Total output continuous shall not exceed 1 600 W - Rating time : Continuous - Protection grade against electric shock : Class I - Built in type - IP Grade : IPX0 - Appliance weight : 1.1 Kg ※ 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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[붙임 3 : 전기용품 안전인증(안전확인신고) 변경 현황]
[Attachment 3 : Revisions Status]

일자 (Date)	내용 (Content of revision)	비고 (Reference)
2019. 02. 18	o Date of Initial Issue	
2019. 07. 12	o Address of Factory is changed - Before : Block C, Building 4,6,7,8,9,10,11, Country 73, Xin'an, Bao'an, Shenzhen, Guangdong, P.R.China	