



全漢企業股份有限公司

安規證書

料號 :
Model Name : FSP065-RBBN3
版次 : 02
文件編號 : SFD-00001978
作者 : doration/田婷瑋(FSP)
Model No/Type : FSP065-RBBN3
SFA NO. : SFA18031155
Trade mark : -
安規種類 : KC/資訊類
發行日期 : 2018/09/25 14:18:21
備註 : 修改證書號

35AA-838F-2AE3-B26C

방송통신기자재등의 적합등록 필증 Registration of Broadcasting and Communication Equipments

상호 또는 성명 Trade Name or Registrant	Zhonghan Electronics (Shenzhen) Co., Ltd.
기자재명칭(제품명칭) Equipment Name	Switching Power Adapter
기본모델명 Basic Model Number	FSP065-RBBN3
파생모델명 Series Model Number	
등록번호 Registration No.	R-REM-FSZ-FSP065-RBBN3
제조사/제조(조립)국가 Manufacturer/Country of Origin	Zhonghan Electronics (Shenzhen) Co., Ltd. / 중국
등록연월일 Date of Registration	2018-05-01
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.

2018년(Year) 05월(Month) 01일(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.





안전인증서 Safety Certificate

안전인증번호: HU10142-18166A
(Certificate No.)

제조업자/수입업자명: Zhonghan Electronics (Shenzhen) Co.,Ltd.
(Manufacturer/importer)

주 소: Building A2 in Section A, Building 4,6,7 in Section C, JuYuan Industrial Zone, TangWei Village, FuYong Town, BaoAn Dist., Shenzhen City, Guangdong, China

제 품 명: 직류전원장치
(Product)

기본모델명: FSP065-RBBN3
(Basic Model)

파생모델명 (Series Model):

정격/안전기준상의 모델구분: 100-240 V~, 50-60 Hz, 1.5 A (O/P: 19 Vdc, 3.42 A)
(Rating)

시험기준: K 60950-1(2011-12)
(Standard)

본 인증서는 제조국명: 중국
제조업자명: Zhonghan Electronics (Shenzhen) Co.,Ltd.
제조공장의 주소: Building A2 in Section A, Building 4,6,7 in Section C, JuYuan Industrial Zone, TangWei Village, FuYong Town, BaoAn Dist., Shenzhen City, Guangdong, China
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항·제4항 또는 제10조제2항에 따라 안전인증서를 발급합니다.
We issue this Safety Certificate for the above appliances in accordance with the Article 9(2), 9(4) or 10(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2018 년 05 월 10 일
(Year) (Month) (Day)

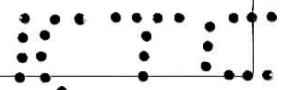


한국기계전기전자시험연구원
Korea Testing Certification



※ 이 인증서는 「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) 2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model) 3. 안전인증의 변경 현황 (Revisions Status)
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기술문서 Technical Document

page: 1 / 8

안전인증번호: HU10142 -18166A
(Certificate No)

접수번호: 20180416 - 0056
(Receipt No)

1. 기본모델 · 파생모델의 내용 (General Descriptions of Certified Products)

1.1 제품의 설명 (Product description)

인증제품의 개요는 다음과 같다.

(Information on certified basic model product is as follow)

구분(Section)	내 용 (Description)
용도 (Normal use)	The apparatus designed to be used for converting AC main voltage to DC low voltage.
내부구조 (Internal construction)	The apparatus consists of Switching transformer, rectifying part etc.
외부구조 (External construction)	Providing with plastic enclosure having min. V-1 flammability and appliance inlet.
기타(Others)	Class I

1.2 전기용품의 표시: 전기용품 및 생활용품 안전관리법 시행규칙 제19조(안전인증의 표시)에 따라 표시한다.

(Marking of KC Mark: Marking shall comply with the Article 19 of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.)

1.3 등록모델 (Registered Models)

구 분 (Class)	모 델 명 및 정 격 (Model / Rating)	기본모델과의 차이점 (Difference between basic model and series model)
기본모델 (Basic model)	FSP065-RBBN3 100-240 V~, 50-60 Hz, 1.5 A (O/P: 19 Vdc, 3.42 A)	

[서식 CP401-18-00]



기 술 문 서 Technical Document

page: 2 / 8

안전인증번호: HU10142 -18166A
(Certificate No)

접수번호: 20180416 - 0056
(Receipt No)

2. 안전관리 부품 및 재질목록(List of Critical Components)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Plastic Enclosure (Top)	Lotte Advanced Materials Co., Ltd	HN-1064	V-0 or better, min. 2.0 mm, 130 ℃	UL
Plastic Enclosure (Top) (alt)	Sabic Innovative Plastics US L L C	945	V-0 or better, min. 2.0 mm, 120 ℃	UL
Plastic Enclosure (Bottom)	Lotte Advanced Materials Co., Ltd	HN-1064	V-0 or better, min. 1.8 mm, 130 ℃	UL
Plastic Enclosure (Bottom) (alt)	Sabic Innovative Plastics US L L C	945	V-0 or better, min. 1.8 mm, 120 ℃	UL
AC Inlet (C6) (CON1)	Canal Electronic Co., Ltd.	KC-101-1, KC-101-2, KC-101-3, KC-101-4	250 Vac, 2.5 A, 70 ℃	IEC
AC Inlet (C6) (CON1) (alt)	Rich Bay Co., Ltd.	R-30790	250 Vac, 2.5 A, 70 ℃	IEC
AC Inlet (C6) (CON1) (alt)	Rong Feng Industrial Co., Ltd.	RF-190	250 Vac, 2.5 A, 70 ℃	IEC
AC Inlet (C6) (CON1) (alt)	Solteam Electronics Co., Ltd.	ST-03	250 Vac, 2.5 A, 70 ℃	IEC
AC Inlet (C6) (CON1) (alt)	Tecx-Unions Technology Corp.	TU-333	250 Vac, 2.5 A, 70 ℃	IEC
AC Inlet (C6) (CON1) (alt)	HCR Electronics Co., Ltd.	SK03	250 Vac, 2.5 A, 70 ℃	IEC
AC Inlet (C6) (CON1) (alt)	Inalways Corporation	0724 series	250 Vac, 2.5 A, 70 ℃	IEC
AC Inlet (C6) (CON1) (alt)	Zhe Jiang Bei Er Jia Electronic Go., Ltd.	ST-A04-001, ST-A04-002	250 Vac, 2.5 A, 70 ℃	IEC
Fuse (F1)	Littelfuse, Inc. Wickmann - Werke	392	250 Vac, T3.15 AL	IEC
Fuse (F1) (alt)	Ever Island Electric Co Ltd & Walter Electric Co., Ltd.	2010 series	250 Vac, T3.15 AL	IEC
Fuse (F1) (alt)	BEL Fuse Ltd.	RST-series	250 Vac, T3.15 AL	IEC
Fuse (F1) (alt)	Conquer Electronics Co., Ltd.	MST-series	250 Vac, T3.15 AL	IEC
Fuse (F1) (alt)	Cooper Bussmann L L C	SS-5	250 Vac, T3.15 AL	IEC

[서식 CP401-18-00]



기 술 문 서 Technical Document

page: 3 / 8

안전인증번호: HU10142 -18166A
(Certificate No)

접수번호: 20180416 - 0056
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Varistor (VAR1) (optional)	Thinking Electronic Industrial Co., Ltd.	TVR10471-D, TVR10471-V, TVR14471, TVR14471-D	300 Vac, 385 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	Thinking Electronic Industrial Co., Ltd.	TVR10621-D, TVR10621-V, TVR14621, TVR14621-D	395 Vac, 510 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	Thinking Electronic Industrial Co., Ltd.	TVR10561-D, TVR10561-V	350 Vac, 450 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	Thinking Electronic Industrial Co., Ltd.	TVR14681, TVR14681-D, TVR10681-D, TVR10681-V	420 Vac, 560 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	Thinking Electronic Industrial Co., Ltd.	TVR14751, TVR14751-D, TVR10751-D, TVR10751-V	465 Vac, 615 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	Thinking Electronic Industrial Co., Ltd.	TVR14561, TVR14561-D	350 Vac, 450 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	Guangxi New Future Information Industry Co., Ltd.	10D471K, 14D471K, 20D471K	300 Vac, 385 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	Guangxi New Future Information Industry Co., Ltd.	10D511K, 14D511K, 20D511K	320 Vac, 415 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	Guangxi New Future Information Industry Co., Ltd.	10D561K, 14D561K, 20D561K	350 Vac, 460 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	Guangxi New Future Information Industry Co., Ltd.	10D621K, 14D621K, 20D621K	385 Vac, 505 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	Guangxi New Future Information Industry Co., Ltd.	10D681K, 14D681K, 20K681K	420 Vac, 560 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	Guangxi New Future Information Industry Co., Ltd.	14D751K	460 Vac, 615 Vdc (Flame class of body coating complied with V-0)	IEC

[서식 CP401-18-00]



기 술 문 서 Technical Document

page: 4 / 8

안전인증번호: HU10142 -18166A
(Certificate No)

접수번호: 20180416 - 0056
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Varistor (VAR1) (optional) (alt)	EPCOS OHG	S10K300, S10K300E2, S10K300E2K1, S14K300, S14K300E2, S14K300E2K1, S20K300, S20K300E2, S20K300E3K1	300 Vac, 385 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	EPCOS OHG	S10K320, S10K320E2, S10K320E2K1, S14K320, S14K320E2, S14K320E2K1, S20K320, S20K320E2, S20K320E3K1	320 Vac, 420 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	EPCOS OHG	S10K350E2K1, S14K350E2K1, S20K350E3K1	350 Vac, 460 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	EPCOS OHG	S10K385, S10K385E2, S10K385E2K1, S14K385, S14K385E2, S14K385E2K1, S20K385, S20K385E2, S20K385E3K1	385 Vac, 505 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	EPCOS OHG	S10K420, S10K420E2, S10K420E2K1, S14K420, S14K420E2, S14K420E2K1, S20K420, S20K420E2, S20K420E3K1	420 Vac, 560 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	EPCOS OHG	S10K440, S14K440, S20K440	440 Vac, 585 Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VAR1) (optional) (alt)	EPCOS OHG	S10K460, S10K460E2, S10K460E2K1, S14K460, S14K460E2, S14K460E2K1, S20K460, S20K460E2, S20K460E3K1	460 Vac, 615 Vdc (Flame class of body coating complied with V-0)	IEC

[서식 CP401-18-00]



기술문서 Technical Document

page: 5 / 8

안전인증번호: HU10142 -18166A
(Certificate No)

접수번호: 20180416 - 0056
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Choke (LF1)	FSP/SPI	8LM02656	125 ℃	-
Triple Insulation Wire (of LF1)	Great Leoflon Industrial Co., Ltd	TRW(B)	130 ℃	VDE
X-Capacitor (CX1)	Hua Jung Components Co., Ltd.	MKP	Max. 0.33 μ F, min. 250 Vac	IEC
X-Capacitor (CX1) (alt)	Okaya Electric Industries Co., Ltd.	LE(-*)	Max. 0.33 μ F, min. 250 Vac	IEC
X-Capacitor (CX1) (alt)	Carli Electronics Co., Ltd.	MPX	Max. 0.33 μ F, min. 250 Vac	IEC
X-Capacitor (CX1) (alt)	Iskra, d d	KNB1530	Max. 0.33 μ F, min. 250 Vac	IEC
X-Capacitor (CX1) (alt)	Iskra, d d	KNB1560, KNB1563, KNB1562	Max. 0.33 μ F, min. 250 Vac	IEC
X-Capacitor (CX1) (alt)	Shiny Space Enterprise Co., Ltd.	SX1	Max. 0.33 μ F, min. 250 Vac	IEC
X-Capacitor (CX1) (alt)	Chiefcon Electronics Co., Ltd.	CKX	Max. 0.33 μ F, min. 250 Vac	IEC
X-Capacitor (CX1) (alt)	ZhuHai Sung Ho Electronics Co., Ltd.	CMPP	Max. 0.33 μ F, min. 250 Vac	IEC
X-Capacitor (CX1) (alt)	Ultra Tech Xiphi Enterprise Co Ltd	HQX	Max. 0.33 μ F, min. 250 Vac	IEC
X-Capacitor (CX1) (alt)	Arcotronics	R.49	Max. 0.33 μ F, min. 250 Vac	IEC
X-Capacitor (CX1) (alt)	Cheng Tung Industrial Co., Ltd.	CTX	Max. 0.33 μ F, min. 250 Vac	IEC
X-Capacitor (CX1) (alt)	Pilkor Electronics Co., Ltd	PCX2 337	Max. 0.33 μ F, min. 250 Vac	IEC
Choke (LF2)	HAINING LIANFENG DONGJIN ELECTRONICS CO.,LD	8LE00629	130 ℃	-
Choke (LF2) (alt)	FSP/SPI	8LE00655	130 ℃	-
Transformer (T1)	FSP/SPI	8TW00371	Class B	-
Triple Insulation Wire (of T1)	Furukawa Electric Co., Ltd.	TEX-E	130 ℃	VDE

[서식 CP401-18-00]



기술문서 Technical Document

page: 6 / 8

안전인증번호: HU10142 -18166A
(Certificate No)

접수번호: 20180416 - 0056
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Bobbin (of T1)	Sumitomo Bakelite Co., Ltd.	PM-9630, PM-9823, PM-9750	V-0, Min. 150°C, phenolic, Min. 0.51mm thickness	UL
Transformer (T1)	FSP/SPI	8TV00372	Class B	-
Triple Insulation Wire (of T1)	Dah Jin Technology Co., Ltd.	TLW-BB	130 ℃	VDE
Bobbin (of T1)	Sumitomo Bakelite Co., Ltd.	PM-9630, PM-9750	V-0, Min. 150°C, phenolic, Min. 0.51mm thickness	UL
Bobbin (of T1) (alt)	Chang Chun Plastics Co., Ltd.	T200HF	V-0, Min. 150°C, phenolic, Min. 0.43 mm thickness	UL
Photo Coupler (PC1)	Lite-On Technology Corporation	LTV-817, LTV-817M	Dti= 0.6 mm	IEC
Photo Coupler (PC1) (alt)	Everlight Electronics Co., Ltd.	EL1018	Dti= 0.4 mm	IEC
Photo Coupler (PC1) (alt)	Cosmo Electronics Corp	KT10XX (XX=00- ZZ)	Dti= 0.7 mm	IEC
Photo Coupler (PC1) (alt)	Lite-On Technology Corporation	LTV-1008	Dti= 0.4 mm	IEC
Photo Coupler (PC1) (alt)	Vishay Semiconductor GmbH	TCET1103	Dti= 0.4 mm	IEC
Photo Coupler (PC1) (alt)	Vishay Semiconductor GmbH	TCET1108, TCET1109	Dti= 0.5 mm	IEC
Photo Coupler (PC1) (alt)	Vishay Semiconductor GmbH	TCET1103G, TCET1104G, TCET1108G, TCET1109G, TCET1114G	Dti= 0.5 mm	IEC
Photo Coupler (PC1) (alt)	Vishay Semiconductor GmbH	SFH617A-..	Dti= 0.6 mm	IEC
Photo Coupler (PC1) (alt)	Renesas Electronics Corporation	PS2561BL1-1, PS2561D-1	Dti= 0.4 mm	IEC

[서식 CP401-18-00]



기 술 문 서 Technical Document

page: 7 / 8

안전인증번호: HU10142 -18166A
(Certificate No)

접수번호: 20180416 - 0056
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Photo Coupler (PC1) (alt)	Renesas Electronics Corporation	PS2561-1, PS2561AL1-1	Dti= 0.4 mm	IEC
Photo Coupler (PC1) (alt)	Renesas Electronics Corporation	PS2561DL1-1	Dti= 0.4 mm	IEC
Photo Coupler (PC1) (alt)	Sharp Corp. Electronic Components and Devices Group	PC123	Dti= 0.4 mm	IEC
Photo Coupler (PC1) (alt)	Cosmo Electronics Corp	K1010	Dti= 0.5 mm	IEC
Photo Coupler (PC1) (alt)	Everlight Electronics Co., Ltd	EL817.	Dti= 0.5 mm	IEC
Bridging Resistors (R18, R19, R20, R21, R22) (Optional)	TA-I	1206	SMD type, 15MW, 1/4W, Distance between terminals: 2.2mm (each one)	-
Bridging- Capacitor (CY1)	Walsin Technology Corp	AH	Max. 1500 pF, min. 250 V, Y1	IEC
Bridging- Capacitor (CY1) (alt)	TDK Corporation	CD	Max. 1500 pF, min. 250 V, Y1	IEC
Bridging- Capacitor (CY1) (alt)	Murata Mfg Co., Ltd.	KX	Max. 1500 pF, min. 250 V, Y1	IEC
Bridging- Capacitor (CY1) (alt)	Success Electronics Co., Ltd.	SB, SE	Max. 1500 pF, min. 250 V, Y1	IEC
Bridging- Capacitor (CY1) (alt)	TDK Corporation	CD (miniature series)	Max. 1500 pF, min. 250 V, Y1	IEC
Bleeder Resistors (R1, R2, R17, R24)	Interchangeable	Interchangeable	Max. 3 Mohm, min.1/4 W	-
Bridge Diode (BD1)	Interchangeable	Interchangeable	Min. 2A, min. 800V	-
Electrolytic capacitor (EC1)	Interchangeable	Interchangeable	100 μ F-120 μ F, 400 V min., 105 $^{\circ}$ C min	-
Current Resistor for T1 (R11)	Interchangeable	Interchangeable	Min. 0.18 ohm, min. 1 W	-
PCB	Interchangeable	Interchangeable	Min. V-1, min. 130 $^{\circ}$ C	UL

[서식 CP401-18-00]



기 술 문 서 Technical Document

page: 8 / 8

안전인증번호: HU10142 -18166A
(Certificate No)

접수번호: 20180416 - 0056
(Receipt No)

3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

일자(Date)	발급현황(Status of issues)
	변경내용(Modification of Contents)
2018/05/10	기본모델(Basic Model)

4. 기타(Carefully Informed Note)

- 1) 안전관리부품 및 재질목록에 기재된 사항은 안전에 직접적인 영향을 주는 부분이므로 내용을 변경 또는 복수등재를 원하는 경우 안전인증변경신청 또는 안전확인변경신고를 하여야 합니다. 안전인증변경신청 또는 안전확인변경신고를 하지 않고 임의로 변경하는 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될 수 있습니다.
The certificate holder should apply for a revision of the certificate if the registered critical components are to be changed, modified or alternated. Should the contents of Certificate are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Consumer Products Safety Control Act.
- 2) 정기검사(시료채취포함)를 거부, 방해 또는 기피하는 경우에는 전기용품 및 생활용품 안전관리법 제11조에 따라 안전인증이 취소될 수 있습니다.
If Follow-up Factory Inspection, including sampling representative model by 11 categories of the certified product at factory-site for re-testing, should not has been arranged by Certificate holder, Safety Certification(KC Mark) may be withdrawn according to the Article 11 of the Electrical Appliances and Consumer Products Safety Control Act.
- 3) 공장주소(전화번호포함), 대표자, 상호 및 부품변경, 신고인정보 등 안전인증 또는 안전확인신고의 내용이 변경되었을 때, 안전인증변경신청 또는 안전확인변경신고를 하지 않을 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될 수 있습니다.
Should a factory address, president name, manufacturer name and critical component are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Customer Products Safety Control Act.
- 4) 조건부 인증사항 (Conditional certification items):

[서식 CP401-18-00]



기술문서붙임자료

안전인증번호 : HU10142-18166A

접수번호 : 20180416-0056

No.1 표시사항



No.2 외부사진



한국기계전기전자시험연구원
Korea Testing Certification

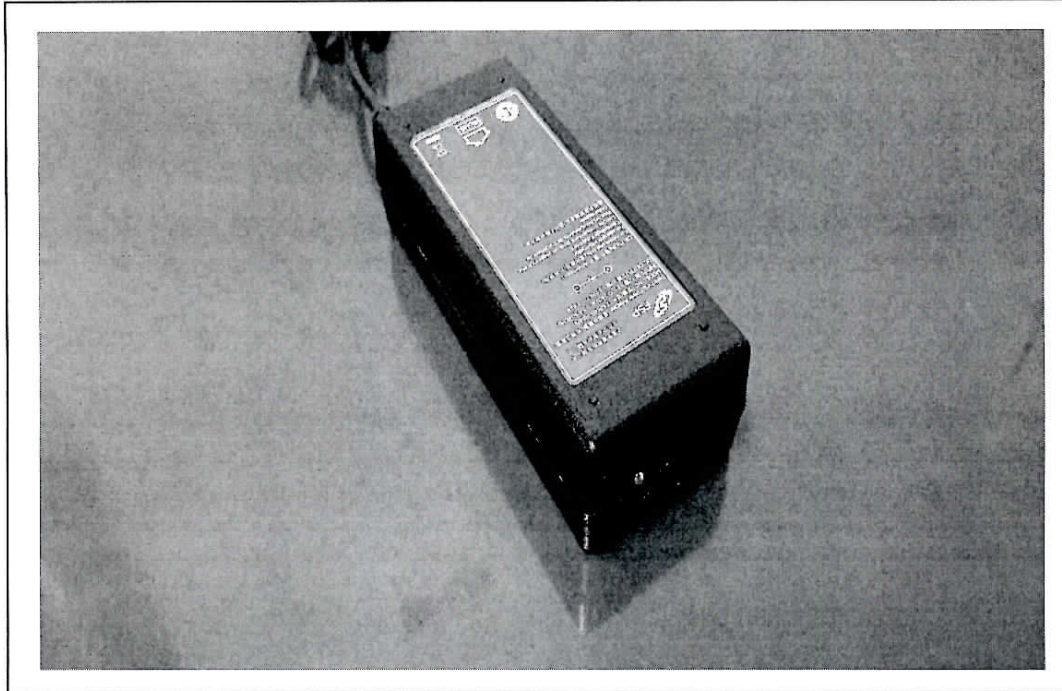


기술문서붙임자료

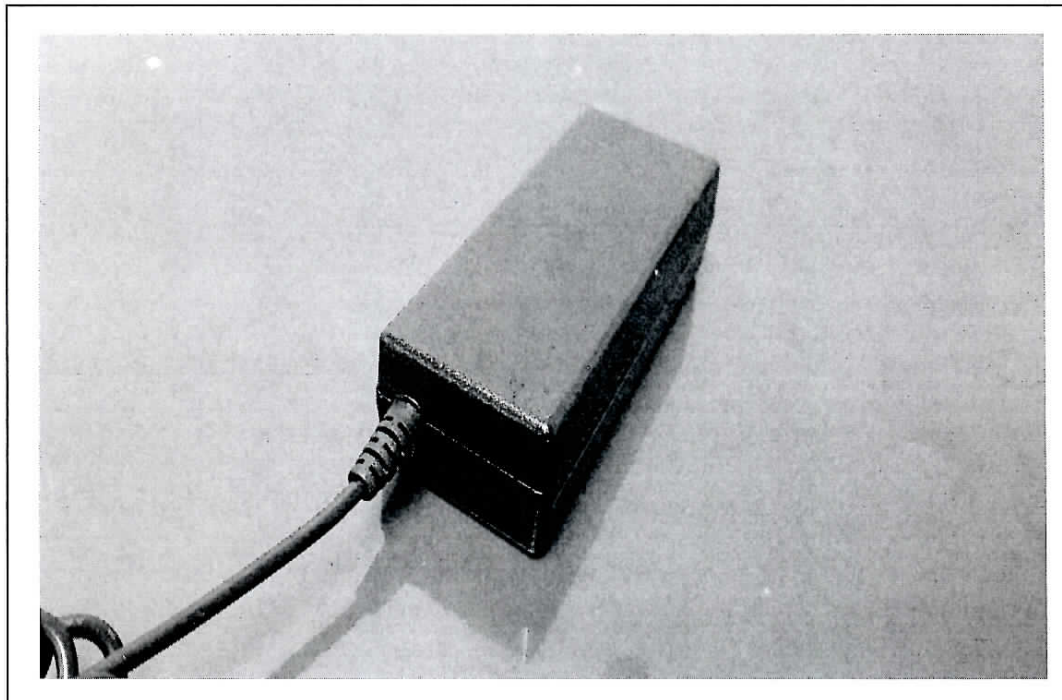
안전인증번호: HU10142-18166A

접수번호: 20180416-0056

No.3 외부사진



No.4 외부사진



한국기계전기전자시험연구원
Korea Testing Certification

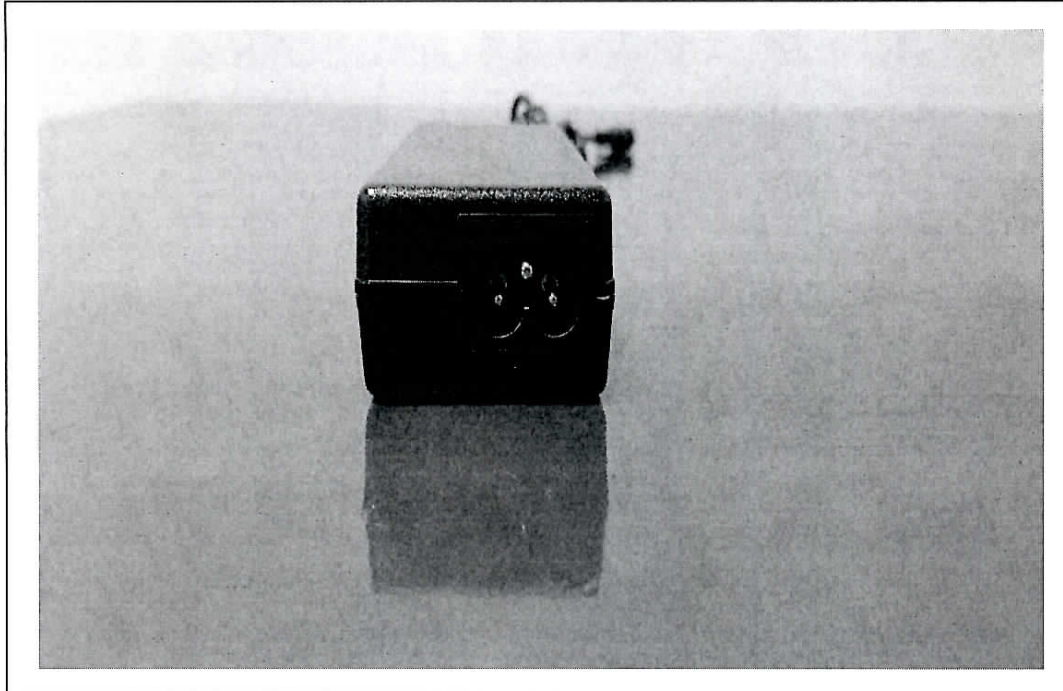


기술문서불임자료

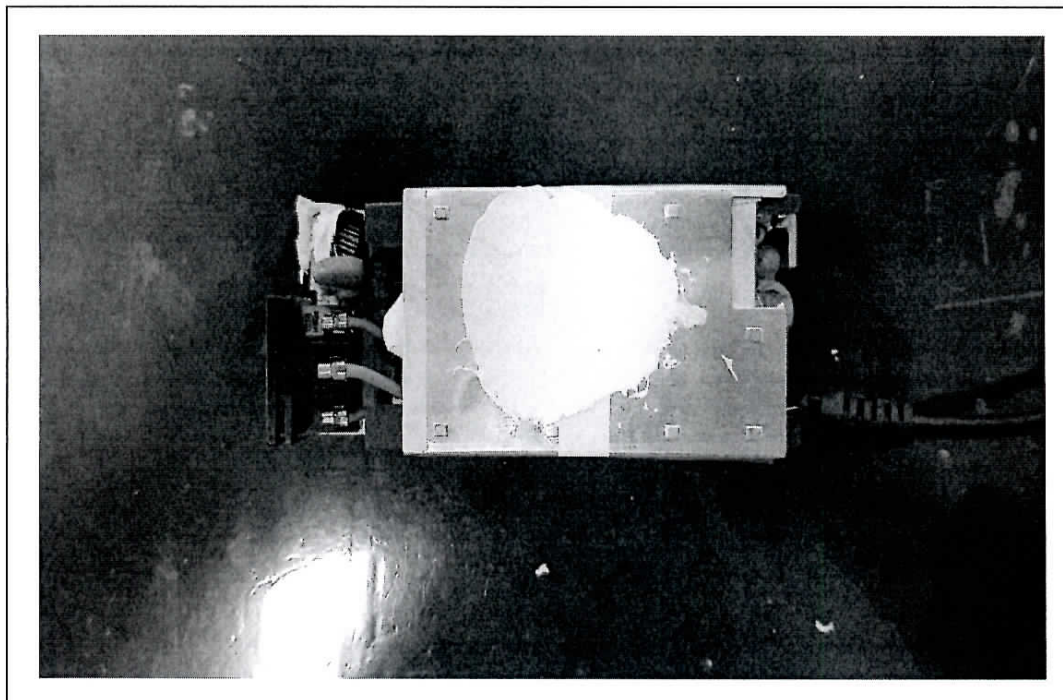
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접수번호: 20180416-0056

No.5 외부사진



No.6 내부사진



한국기계전기전자시험연구원
Korea Testing Certification

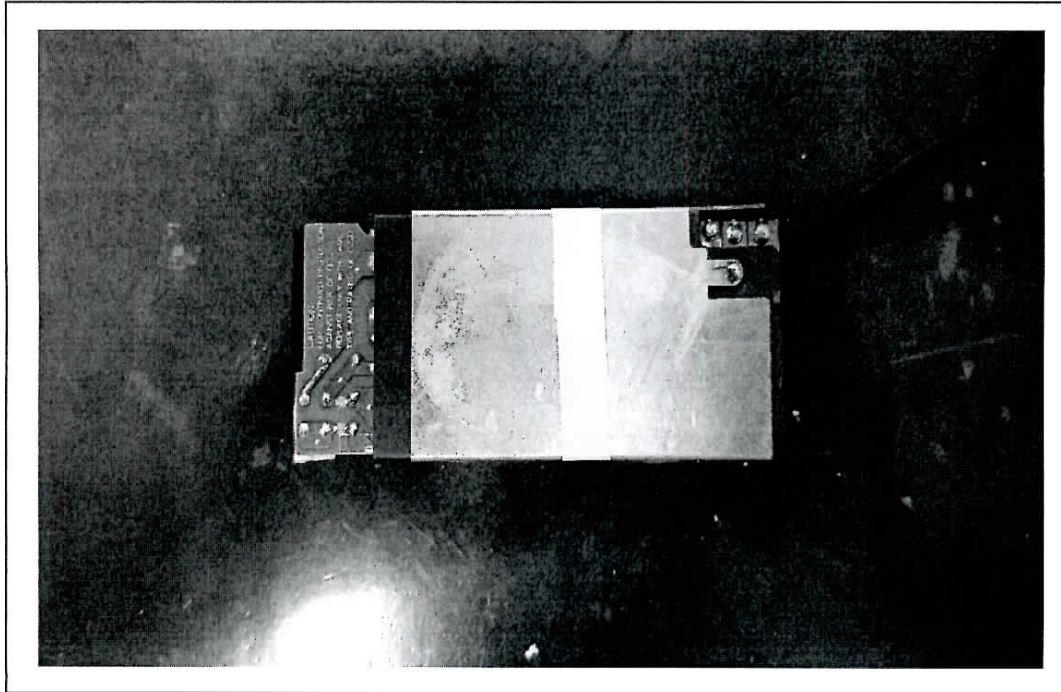


기술문서붙임자료

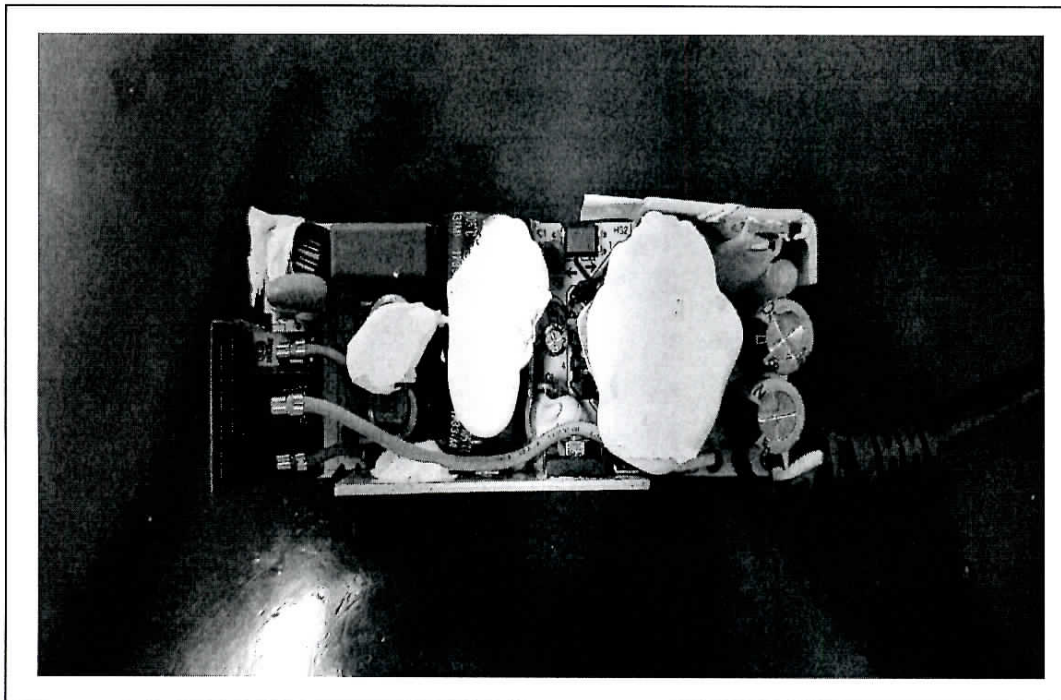
안전인증번호: HU10142-18166A

접수번호: 20180416-0056

No.7 내부사진



No.8 내부사진



한국기계전기전자시험연구원
Korea Testing Certification

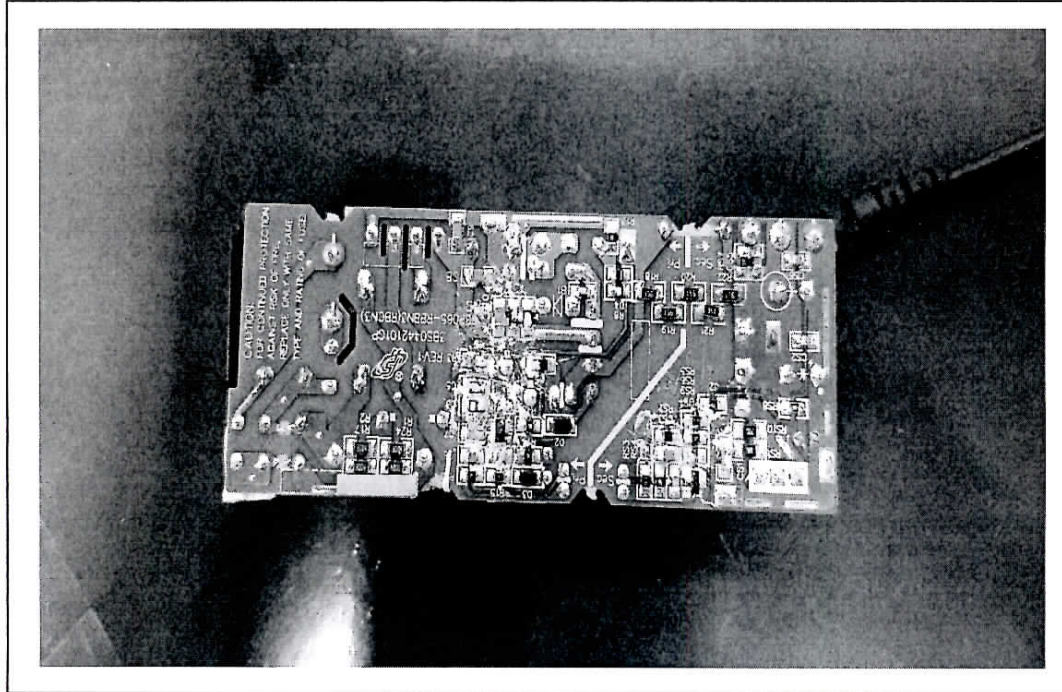


기술문서불임자료

안전인증번호: HU10142-18166A

접수번호: 20180416-0056

No.9 내부사진



한국기계전기전자시험연구원
Korea Testing Certification

