

접수번호 : 20151218-0059

전 기 용 품 안 전 인 증 서

Electrical Appliances Safety Certificate

안전인증번호: HU10686-16006A
(Certificate No.)
제조업자명: Shenzhen RBD Technology Corporation.
(Manufacturer)
대표자명: Hu Jia Da
(President)
제조공장의 주소: Bldg A3. North area2 Fuqiao industrial zone, Fuyong town, Bao'an district, Shenzhen Guangdong, China.
(Factory Address)
제품명: 직류전원장치
(Product)
기본모델명: 02-290018
(Basic Model)
정격: 100-240 V~, 50/60 Hz, 1.5 A (O/P: 29 Vdc, 1.8 A)
(Rating)
파생모델명 (Series Model):
09-290018

적용기준: K 60950-1(2011-12)
(Standard)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.
We issue this Electrical Appliances Safety Certificate for the above electrical appliance in accordance with the Article 6(2) of the Enforcement Rule of the Electrical Appliances Safety Control Act.



2016 년 1 월 19 일
(Year) (Month) (Day)

한국기계전기전자시험연구원장
Korea Testing Certification



※ 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

- 첨부서류
1. 안전관리부품 및 재질목록 (List of Critical Components)
 2. 기본모델 · 파생모델의 내용 (Descriptions of the basic and series model)
 3. 전기용품 안전인증의 변경 현황 (Revisions Status)



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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) | Consisting of the primary and reinforced or double insulated SELV circuit. |
| 외부구조 (External construction) | Provided with plastic enclosure having min. V-1 flammability and appliance inlet. |
| 기타(Others) | Class II. |

1.2 전기용품의 표시: 전기용품안전 관리법 시행규칙 제15조(안전인증의 표시)에 따라 표시한다.

(Marking of KC Mark: Marking shall comply with enforcement rule Article 15 of the Electrical Appliances Safety Control Law)

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) | 02-290018 100-240 V~, 50/60 Hz, 1.5 A (O/P: 29 Vdc, 1.8 A) | |
| 파생모델 (Series model) | 09-290018 | Identical to basic model except for model designation, internal battery and output cable type. (two pieces of 9 Vdc non-chargeable alkaline battery included, no output cable) |

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

| 부품명 (Components) | 번호 (Part No) | 특 성 (Technical Data) | 제조사 (Manufacturer) | 인증규격 (Certification) |
|------------------------|-------------------|---|--|-------------------------|
| PCB | - | Rated: V-1 or better, 130 °C | - | UL |
| Enclosure | - | Type: EN-1052(+), V-0, 130 °C, min. 2.2 mm thickness | Cheil Industries Inc Chemicals Div | UL |
| AC Inlet | - | Type: DB-8, 2.5 A, 250 V | Zhejiang Leci Electronics | IEC |
| Enclosure | -(alt) | Type: 943A(f1), V-0, 120 °C, min. 2.2 mm thickness | Sabic Innovative Plastics Us | UL |
| AC Inlet | -(alt) | Type: ST-A03-005, 2.5 A, 250 V | Zhe Jiang Bei Er Jia Electronic | IEC |
| T.I.W | -(of T1) | Type: TIW-2, TIW-2X, 130 °C | Totoku Electric Co Ltd | VDE,UL |
| Bobbin | -(of T1) | Type: PM-9820, Phenolic, V-0, 150 °C, min. thickness 0.7 mm | Sumitomo Bakelite Co Ltd. | UL |
| T.I.W | -(of T1) (alt) | Type: TEX-E, 130 °C | Furukawa Electric Co Ltd | VDE,UL |
| Electrolytic Capacitor | C2 | Rated: 56-100 µF, min. 400 V, 105 °C | - | - |
| X-Capacitor | CX1 | Type: MPX, 0.33 µF, min. 250 VAC, X2 type | Shantou High-New Technology Developmnt Zone Songtian Enterprise Co Ltd | IEC |
| X-Capacitor | CX1 (alt) | Type: GS-L # , 0.33 µF, min. 250 VAC, X2 type | Liow Gu Electronics Industry Co Ltd | IEC |
| X-Capacitor | CX1 (alt) | Type: PKX, 0.33 µF, min. 250 VAC, X2 type | Farad Electronics Co Ltd | IEC |
| X-Capacitor | CX1 (alt) | Type: MPX, 0.33 µF, min. 250 VAC, X2 type | Winday Electronic Industrial Co., Ltd. | IEC |
| X-Capacitor | CX1 (alt) | Type: MKP-X2, 0.33 µF, min. 250 VAC, X2 type | Hanway Technology (H.K.) Ltd. | IEC |
| X-Capacitor | CX1 (alt) | Type: MPX#, 0.33 µF, min. 250 VAC, X2 type | Jenn Fu Electronics Corp | IEC |



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| 부품명 (Components) | 번호 (Part No) | 특 성 (Technical Data) | 제 조 자 (Manufacturer) | 인증규격 (Certification) |
|---------------------|-----------------|--|--|-------------------------|
| X-Capacitor | CX1 (alt) | Type: MPX, 0.33 μ F, min. 250 VAC, X2 type | Dain Electronic Co., Ltd. | IEC |
| Y-Capacitor | CY1, CY2 | Type: CD, CE, 2200 pF, min. 250 VAC | Shantou High-New Technology Developmnt Zone Songtian Enterprise Co Ltd | IEC |
| Y-Capacitor | CY1, CY2 (alt) | Type: G Y1, G Y2, 2200 pF, min. 250 VAC | Gce (Dongguan) Electronics Co., Ltd | IEC |
| Y-Capacitor | CY1, CY2 (alt) | Type: ZE, 2200 pF, min. 250 VAC | Zonkas ElectronicCo., Ltd. | IEC |
| Bridge Rectifier | DB1 | Rated: Min. 3 A, min. 600 V | - | - |
| Fuse | F1 | Type: 5ET, T4 AL, 250 Vac | Hollyland Co Ltd | IEC |
| Fuse | F1 (alt) | Type: 332, T4 AL, 250 Vac | Dongguan Better Electronic Technology Co., Ltd. | IEC |
| Fuse | F1 (alt) | Type: 3T, T4 AL, 250 Vac | XC Electronics (Shenzhen) Corp Ltd | IEC |
| Fuse | F1 (alt) | Type: 5TE, T4 AL, 250 Vac | XC Electronics (Shenzhen) Corp Ltd | IEC |
| Fuse | F1 (alt) | Type: 932, T4 AL, 250 Vac | Dongguan Better Electronic Technology Co., Ltd. | IEC |
| Line Choke | LF1 | Type: ET20-290018, 130 $^{\circ}$ C | ShenZhen RBD Technology Corporation | - |
| Line Choke | LF2 | Type: T953-290020, 130 $^{\circ}$ C | ShenZhen RBD Technology Corporation | - |
| Optical Isolator | OC1 | Type: K1010, KP010, dti = 0.4 mm | Cosmo Electronics Corporation | VDE |
| Optical Isolator | OC1 (alt) | Type: BPC-817C, dti = 0.4 mm | Bright Led Electronics Corp | VDE |
| Optical Isolator | OC1 (alt) | Type: EL-817C, dti = 0.4 mm | Everlight Electronics Co Ltd | VDE |
| Optical Isolator | OC1 (alt) | Type: PC123, dti = 0.4 mm | Sharp Corp Electronic Components And Devices Group | VDE |
| PTC | PTC1 | Rated: Min. 2.5 A, Min. 30 V | - | - |



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| 부품명 (Components) | 번호 (Part No) | 특 성 (Technical Data) | 제 조 자 (Manufacturer) | 인 증 규 격 (Certification) |
|---------------------|--------------------|--|--|----------------------------|
| Transistor | Q1 | Rated: Min. 7 A, Min. 600 V | - | - |
| Bleeder Resistor | R2A, R2B, R8A, R8B | Rated: Max. 510 K Ω , min. 1/8 W | - | - |
| Transformer | T1 | Type: W52RA09-290018, Class B | Dongguan City Lineng Electronic Co;Ltd | - |
| Transformer | T1 (alt) | Type: W52RA09-290018, Class B | Jia Sheng Yuan Electronics Co Ltd | - |
| Transformer | T1 (alt) | Type: W52RA09-290018, Class B | Xsht Electronics Co.,Ltd | - |
| Varistor | VDR1 | Type: TVR10471, TVR14471, 470 Vac, 85 $^{\circ}$ C | Thinking | VDE |
| Varistor | VDR1 (alt) | Type: 10D471K, 14D471K, 470 Vac, 85 $^{\circ}$ C | Brightking (Shenzhen) Co Ltd | VDE |
| Varistor | VDR1 (alt) | Type: 10D471K, 14D471K, 470 Vac, 85 $^{\circ}$ C | Cerglass Mfg Inc | VDE |
| Varistor | VDR1 (alt) | Type: JVR10N471K, JNR14N471K, 470 Vac, 85 $^{\circ}$ C | Joyin Co Ltd | VDE |
| Varistor | VDR1 (alt) | Type: MYG20G10K471, MYG20G14K471, 470 Vac, 85 $^{\circ}$ C | Shaanxi Huaxing Electronic Co Ltd | VDE |
| Varistor | VDR1 (alt) | Type: SR-471K10D, SR-471K14D, 470 Vac, 85 $^{\circ}$ C | Walsin Technology Corp | VDE |



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3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

| 일자(Date) | 발급현황(Status of issues) |
|------------|---------------------------------|
| | 변경내용(Modification of Contents) |
| 2016/01/19 | 기본+파생모델등록(Basic + Series Model) |
| | |

4. 기타(Carefully Informed Note)

- 1) 안전관리부품 및 재질목록에 기재된 사항은 전기적인 안전에 직접적인 영향을 주는 부분이므로 내용을 변경 또는 복수등재를 원하는 경우 안전인증변경신청을 하여야 합니다. 안전인증변경신청을 하지 않고 제조자가 임의로 변경하는 경우에는 전기용품안전 관리법 제8조제1항제2호에 의거 안전인증이 취소될 수 있습니다.

(Certificate holder should apply for the revision of certificate issued from Issuing Certification Body if registered critical components would be changed, modified or alternated. Should the contents of Certificate are altered without Safety Certification Modification Application by Certificate holder, Safety Certification(KC Mark) may be withdrawn under Section 2, Paragraph 1, Article 8 of the Electrical Appliances Safety Control Law)

- 2) 정기검사(시료채취포함)를 거부, 방해 또는 기피하는 경우에는 전기용품안전 관리법 제8조제1항제4호에 의거 안전인증이 취소될 수 있습니다.

(If Annual 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 under Section 4, Paragraph 1, Article 8 of the Electrical Appliances Safety Control Law)

- 3) 공장주소(전화번호포함), 대표자, 상호 및 부품변경 등 전기용품 안전인증서의 내용이 변경되었을 때 제조자가 안전인증변경신청을 하지 않을 경우에는 전기용품안전 관리법 제8조제1항제3호에 의거 안전인증이 중지 또는 취소될 수 있습니다.

(If Safety Certification Modification Application by Certificate holder should not has been made to Issuing Certification Body, when Factory Address, including telephone/facsimile no., Manufacturer Name, Registered Critical Components, etc would be changed, Safety Certification(KC Mark) may be suspended or withdrawn under Section 3, Paragraph 1, Article 8 of the Electrical Appliances Safety Control Law)

- 4) 조건부 인증사항 (Conditional certification items):












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No.1 표시사항

제 품 명: 스위칭 전원 공급 장치 (AC/DC Switching Power Supply)
 모델명 (Model No.): 02-290018 Class 2 Power Unit
 Version No.: JLDP.10.013.000-A A/S 연락처 (A/S 售后服务联络处): 82-02-720-2408
 Batch No.: P15020117RSC43451503 S/N: RBD434500001
 정격입력 (Input): AC100-240V 50/60Hz 1.5A
 정격출력 (Output): DC 29V 1.8A
 제조년월 (Date code): 1511
 안전인증번호 (safe authentication No.): XXXXX

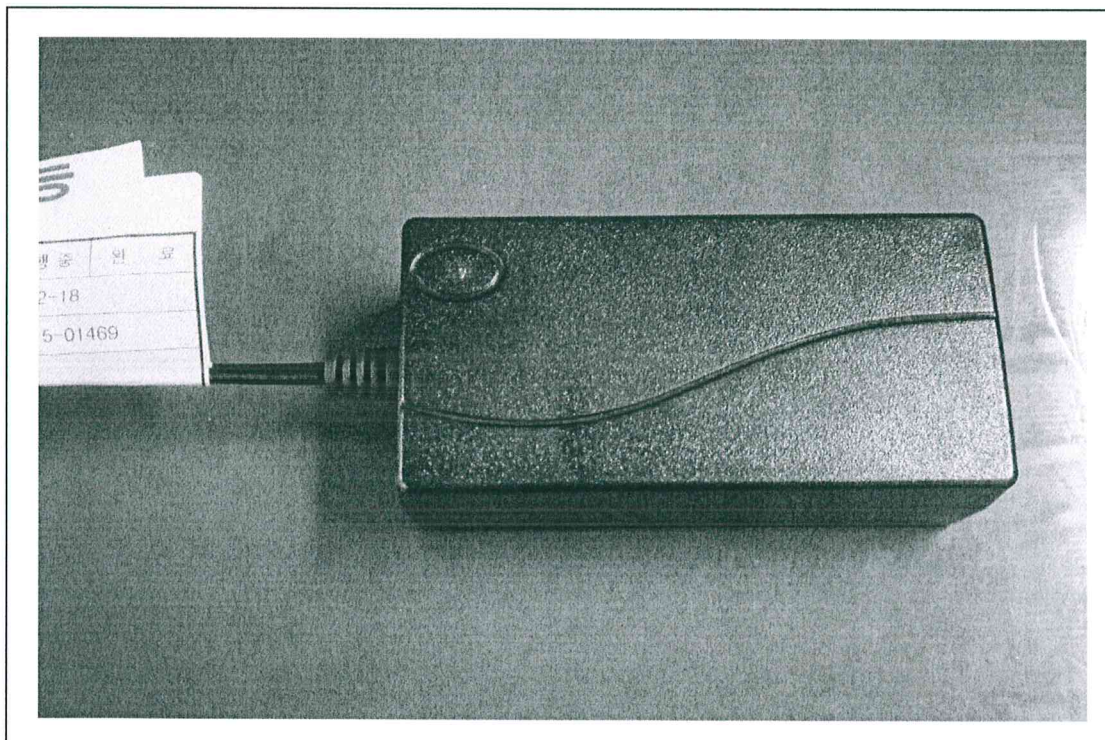












EFFICIENCY LEVEL: VI
 Duty Cycle: Max 10% ; Max T_{ON}: 2min
CAUTION: RISK OF ELECTRIC SHOCK.
 Dry location use only
 제조자 (factory): Shenzhen RBD Technology Corporation.
 For Patents contact www.dewertokin.de/patents

COSφ ≥ 0.5
 IP20
 제조국 (Made In): China

HU10686-13004A
 TÜV Rheinland CERTIFIED
 GS
 UL US
 LISTED E313824 SGT2
 OKIN A Phoenix Mecano Brand

No.2 외부사진1

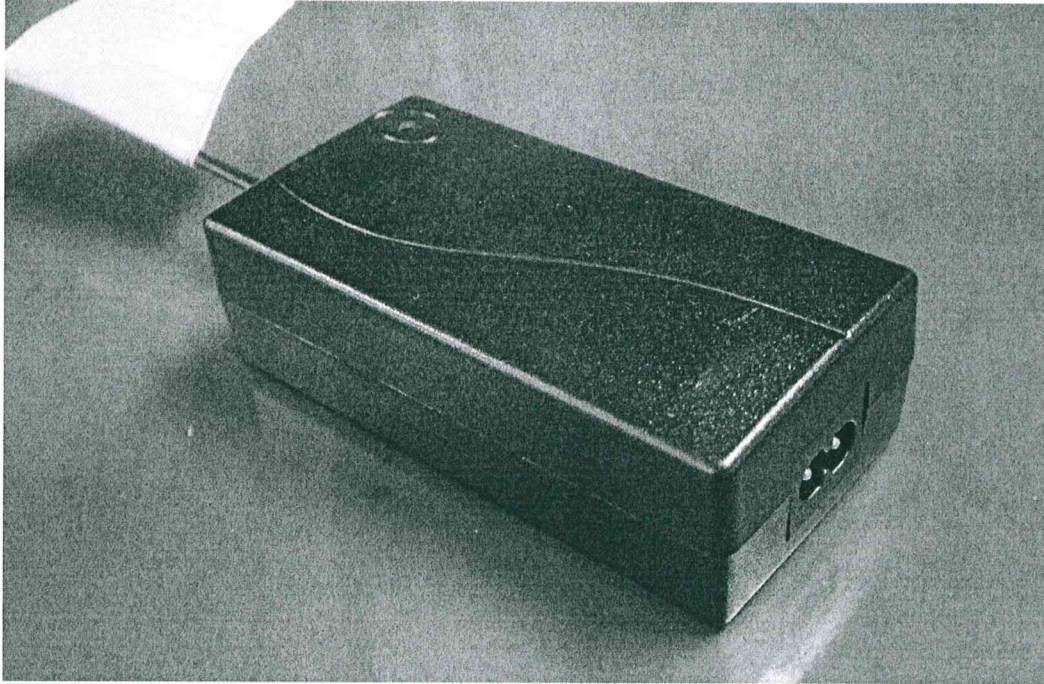


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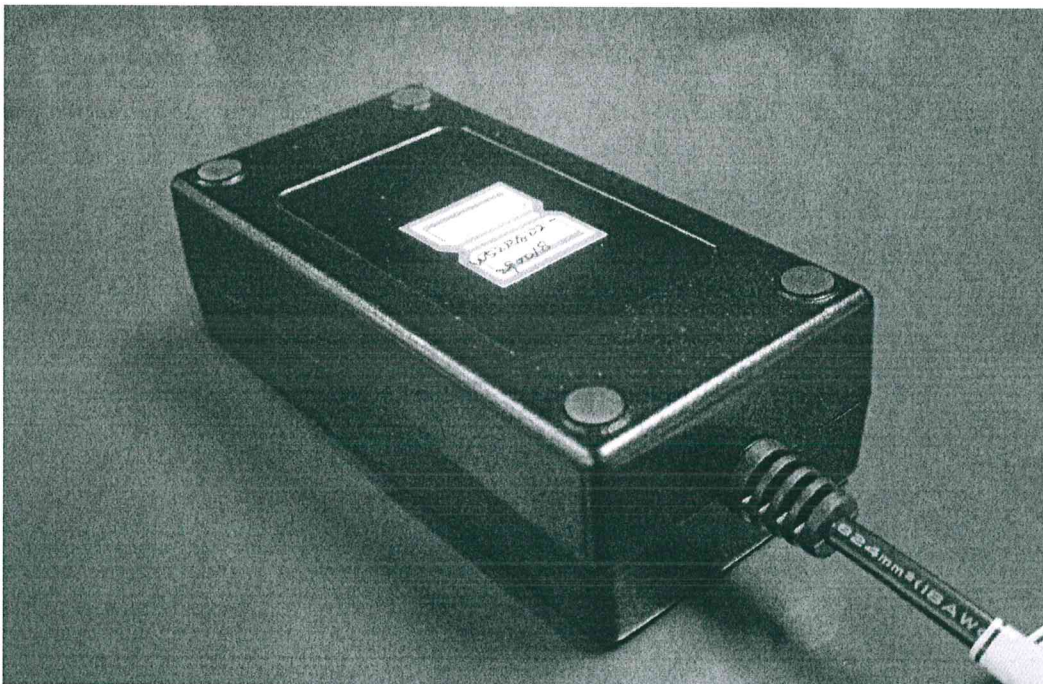
안전인증번호: HU10686-16006A

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No.3 외부사진2



No.4 외부사진3

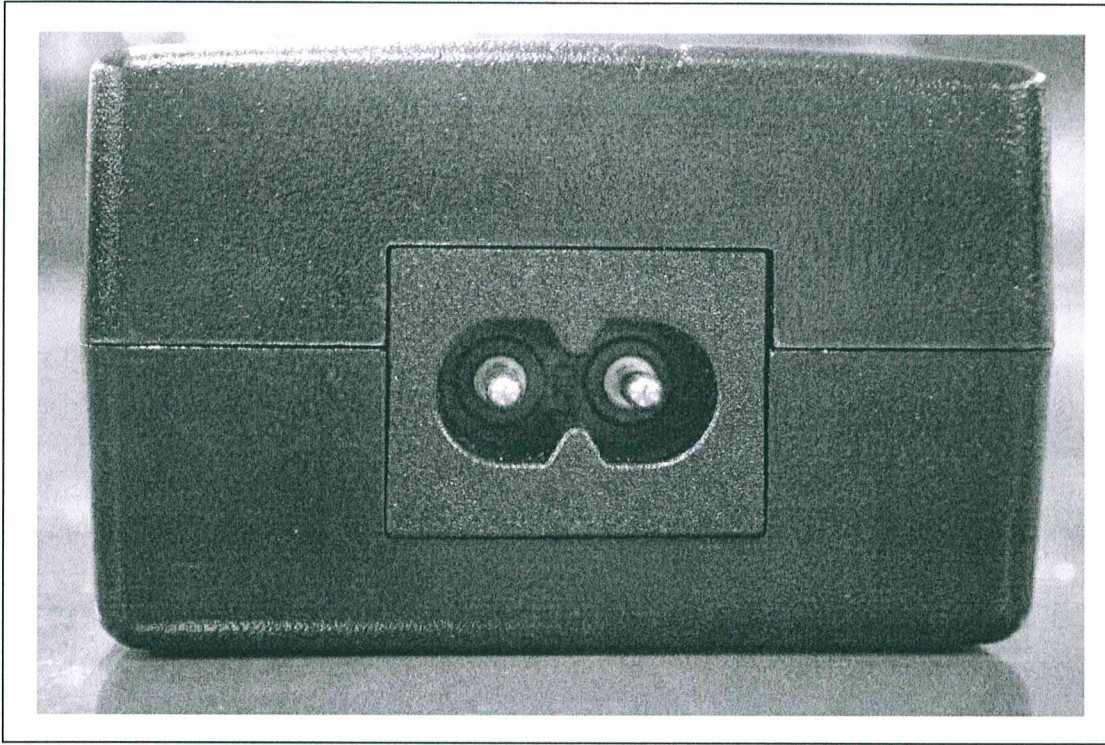


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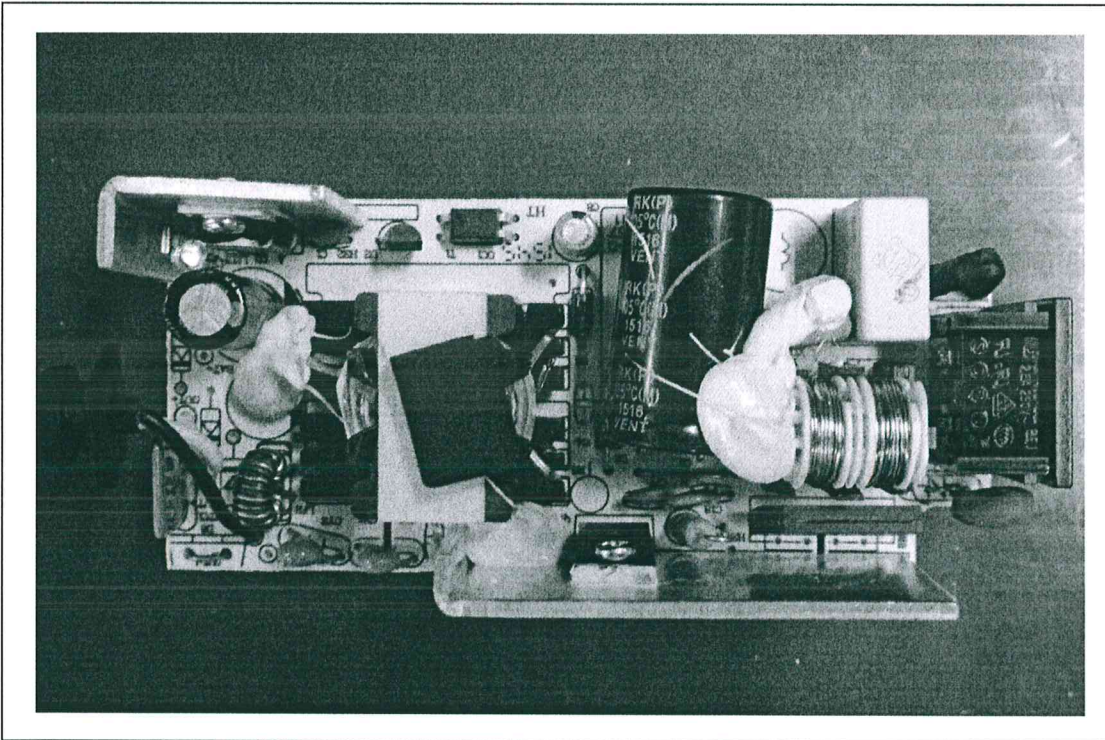
안전인증번호: HU10686-16006A

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No.5 외부사진4



No.6 내부사진(부품면)

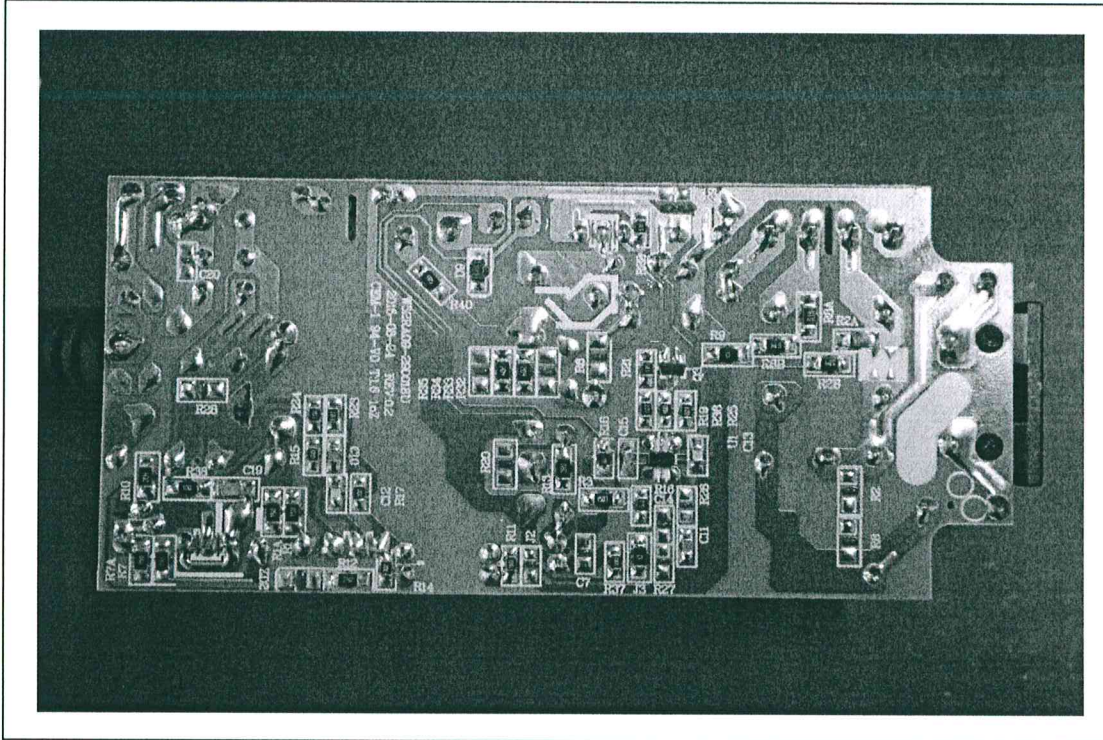


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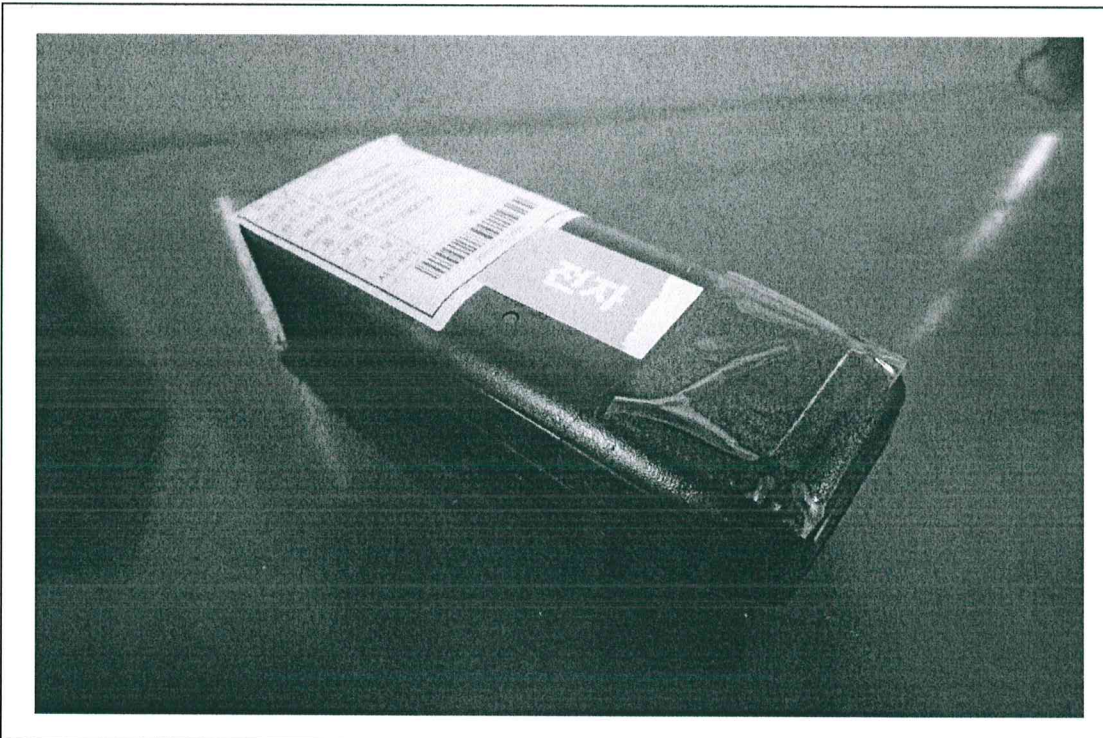
안전인증번호: HU10686-16006A

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No.7 내부사진(PCB면)



No.8 외부사진1(09-290018)

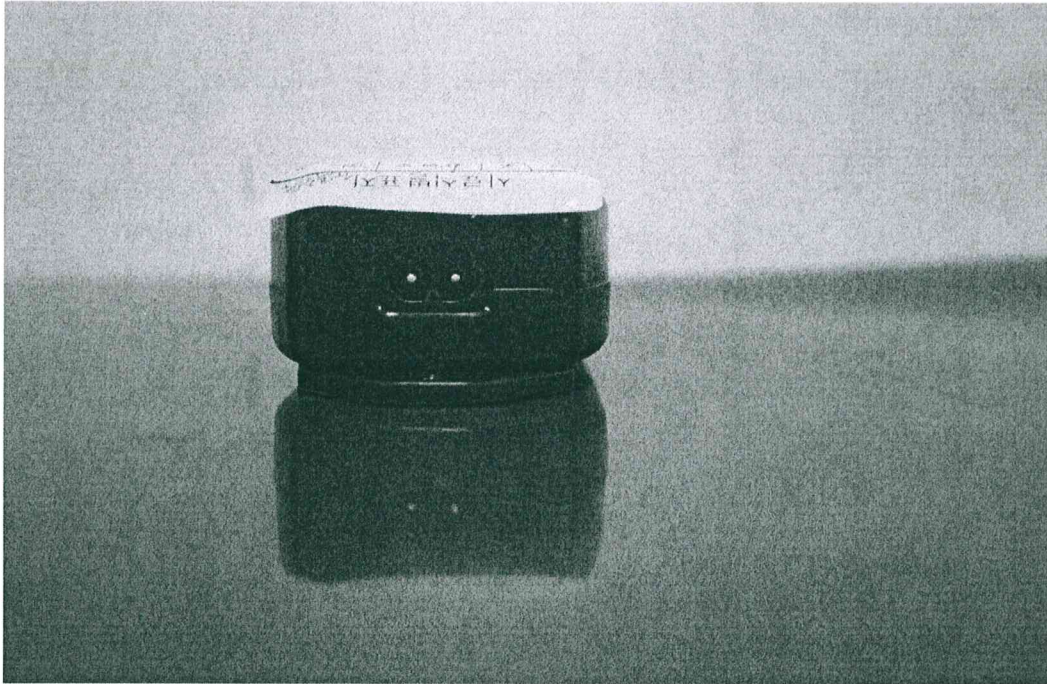


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No.9 외부사진2(09-290018)



No.10 외부사진3(09-290018)

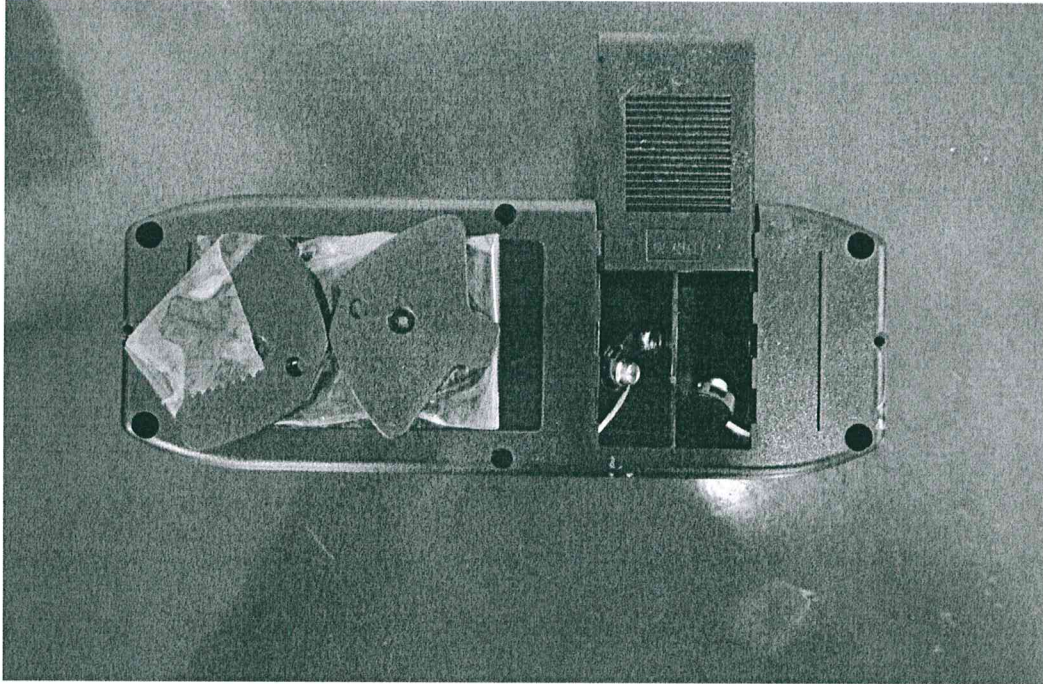


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No.11 외부사진4(09-290018)



No.12 내부사진 (09-290018)

