



안전인증서 Safety Certificate

안전인증번호: HU10499-19037A
(Certificate No.)

제조업자/수입업자명: GlobTek (Suzhou) Co., Ltd.
(Manufacturer/importer)

주소: Building 4, #76, Jin Ling East Rd., Suzhou Park, Suzhou, Jiangsu
(Address) 215021, P.R.China

제품명: 직류전원장치
(Product)

기본모델명: GT-46401-4015
(Basic Model)

파생모델명 (Series Model):

GT-46401-2412

GT-46401-3612

GT-46401-3615-1.0

GT-46401-3615-1.5

GT-46401-3615-2.0

GT-46401-4019-2.0

GT-46401-4019-3.0

정격/안전기준상의 모델구분: 100-240 V~, 50-60 Hz, 1.0 A (O/P: 15 Vdc, 2.66 A)
(Rating)

시험기준: K 60950-1(2011-12)
(Standard)

본 인증서는 제조국명: 중국
제조업자명: GlobTek (Suzhou) Co., Ltd.
제조공장의 주소: Building 4, #76, Jin Ling East Rd., Suzhou Park, Suzhou, Jiangsu
215021, P.R.China
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.
We issue this Safety Certificate for the above appliances in accordance with the Article 9(2), 9(4), 10(2) or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2019 년 05 월 28 일
(Year) (Month) (Day)



한국기계전자시험연구원 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	<ol style="list-style-type: none"> 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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기술 문서 Technical Document

page: 1 / 9

안전인증번호: HU10499 -19037A
(Certificate No)

접수번호: 20190502 - 0004
(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)	내용 (Description)
용도 (Normal use)	The equipment was designed to be used for converting AC main voltage to DC low voltage.
내부구조 (Internal construction)	Consisting of reinforced insulation or double insulation between the primary circuit and SELV circuit.
외부구조 (External construction)	Replaceable direct plug-in equipment and provide plastic enclosure with min. V-1 flammability properties.
기타(Others)	Class II.

1.2 전기용품의 표시: 전기용품 및 생활용품 안전관리법 시행규칙 제20조(안전인증의 표시)에 따라 표시한다.

(Marking of KC Mark: Marking shall comply with the Article 20 of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.)

1.3 등록모델 (Registered Models)

구분 (Class)	모델명 및 정격 (Model / Rating)	기본모델과의 차이점 (Difference between basic model and series model)
기본모델 (Basic model)	GT-46401-4015 100-240 V~, 50-60 Hz, 1.0 A (O/P: 15 Vdc, 2.66 A)	
파생모델 (Series model)	GT-46401-2412	Identical to the basic model except for the model designation and output rating (12 Vdc 2 A)
	GT-46401-3612	Identical to the basic model except for the model designation and output rating (12 Vdc 3 A)
	GT-46401-3615-2.0	Identical to the basic model except for the model designation and output rating (13 Vdc 2.76 A)
	GT-46401-3615-1.5	Identical to the basic model except for the model designation and output rating (13.5 Vdc 2.66 A)

[서식 CP401-18-00]



기 술 문 서 Technical Document

page: 2 / 9

안전인증번호: HU10499 -19037A
(Certificate No)

접수번호: 20190502 - 0004
(Receipt No)

	GT-46401-3615-1.0	Identical to the basic model except for the model designation and output rating (14 Vdc 2.57 A)
	GT-46401-4019-3.0	Identical to the basic model except for the model designation and output rating (16 Vdc 2.5 A)
	GT-46401-4019-2.0	Identical to the basic model except for the model designation and output rating (17 Vdc 2.35 A)



기술 문서 Technical Document

page: 3 / 9

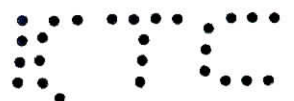
안전인증번호: HU10499 -19037A
(Certificate No)

접수번호: 20190502 - 0004
(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)
Enclosure	SABIC INNOVATIVE PLASTICS B V	SE1X(GG)(f1), 945 (GG)	Min. V-1, min.2.0 mm thickness, 105°C	UL
Enclosure (Alt.)	TEIJIN CHEMICALS LTD	LN-1250P, LN-1250G	Min. V-0 , min.1.5 mm thickness, 115°C	UL
Replaceable Plug holder	SABIC INNOVATIVE PLASTICS B V	SE1X(GG)(f1), 945 (GG)	Min. V-1, min.2.0 mm thickness, 105°C	UL
Replaceable Plug holder (Alt.)	TEIJIN CHEMICALS LTD	LN-1250P, LN-1250G	Min. V-0 , min.1.5 mm thickness, 115°C	UL
PCB	WALEX ELECTRONIC (WUXI) CO LTD	T2, T2A, T2B, T4	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
PCB (Alt.)	YUANMAN PRINTED CIRCUIT CO LTD	1V0	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
PCB (Alt.)	SUZHOU XINKE ELECTRONICS CO LTD	XK-1, XK-2	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
PCB (Alt.)	DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1, 2V0, FR4	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
PCB (Alt.)	KUNSHAN CITY HUA SHENG CIRCUIT BOARD CO LTD	HS-S	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
PCB (Alt.)	CHEERFUL ELECTRONIC	03, 02 03A	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
PCB (Alt.)	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-1	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
PCB (Alt.)	DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2	Min. 1.6 mm thickness, min. V- 0, 130°C	UL

[서식 CP401-18-00]



기술문서 Technical Document

page: 4 / 9

안전인증번호: HU10499 -19037A
(Certificate No)

접수번호: 20190502 - 0004
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer (Brand)	모델명(형식) Model (Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
PCB (Alt.)	SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
PCB (Alt.)	SHANGHAI AREX PRECISION ELECTRONIC CO LTD	02V0, 04V0	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
PCB (Alt.)	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A, DGV0-3A	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
PCB (Alt.)	KUOTIANG ENT LTD	C-2, C-2A	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
PCB (Alt.)	PACIFIC WIN INDUSTRIAL LTD	PW-02, PW-03	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
PCB (Alt.)	SHENZHEN TONGCHUANG XIN ELECTRONICS CO LTD	TCX	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
PCB (Alt.)	Huizhou Shunjia Electronics Co., Ltd	SJ-B	Min. 1.6 mm thickness, min. V- 0, 130°C	UL
Fuse (FS1)	Conquer Electronics Co., Ltd.	MST series	T2AL, 250V	IEC
Fuse (FS1) (Alt.)	Ever Island Electric Co., Ltd. And Walter Electric	2010 Serie(s)	T2AL, 250V	IEC
Fuse (FS1) (Alt.)	Bel Fuse Ltd.	RST-Serie(s)	T2AL, 250V	IEC
Fuse (FS1) (Alt.)	Cooper Bussmann LLC	SS-5	T2AL, 250V	IEC
Fuse (FS1) (Alt.)	Dongguan Better	932	T2AL, 250V	IEC
Fuse (FS1) (Alt.)	Hollyland	5ET- series	T2A, 250V	IEC
X capacitor (CX1) (optional)	Cheng Tung Industrial Co., Ltd.	CTX	Max 0.33 μ F, Min.250V,100 °C, X1 or X2	IEC
X capacitor (CX1) (optional) (Alt.)	Tenta Electric Industrial Co. Ltd.	MEX	Max 0.33 μ F, Min.250V,100 °C, X1 or X2	IEC

[서식 CP401-18-00]



기술문서 Technical Document

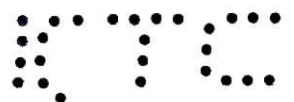
page: 5 / 9

안전인증번호: HU10499 -19037A
(Certificate No)

접수번호: 20190502 - 0004
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
X capacitor (CX1) (optional) (Alt.)	Joey Electronics (Dong Guan) Co., Ltd.	MPX	Max 0.22 μ F, Min.250V, 100 $^{\circ}$ C, X1 or X2	IEC
X capacitor (CX1) (optional) (Alt.)	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Max 0.33 μ F, Min.250V, 100 $^{\circ}$ C, X1 or X2	IEC
X capacitor (CX1) (optional) (Alt.)	Xiangtai Electronic (Shenzhen) Co., Ltd.	MKP/MPX	Max 0.33 μ F, Min.250V, 100 $^{\circ}$ C, X1 or X2	IEC
X capacitor (CX1) (optional) (Alt.)	Carli Electronics Co., Ltd.	MPX	Max 0.33 μ F, Min.250V, 100 $^{\circ}$ C, X1 or X2	IEC
X capacitor (CX1) (optional) (Alt.)	Dain Electronics Co., Ltd.	MEX, MPX, NPX	Max 0.33 μ F, Min.250V,100 $^{\circ}$ C, X1 or X2	IEC
Photo Coupler (U1)	Everlight Electronics Co., Ltd.	EL817	Dti=0.5mm Int. , dcr=6.0mm EXT.dcr=7.7mm, thermal cycling test,110 $^{\circ}$ C	VDE
Photo Coupler (U1) (Alt.)	COSMO Electronics Corporation	K1010, KP1010	Dti=0.6mm Int. , Dcr = 4.0mm, Ext.dcr=5.0mm, thermal cycling test,115 $^{\circ}$ C	VDE
Photo Coupler (U1) (Alt.)	Lite-On Technology Corporation	LTV-817	Dti=0.8mm, EXT.dcr=7.8mm, thermal cycling test,100 $^{\circ}$ C	VDE
Photo Coupler (U1) (Alt.)	Bright Led Electronics Corp.	BPC-817 (A; B; C; D; L), BPC- 817 M, BPC- 817 S	Dti=0.4mm, EXT.dcr=7.0mm, thermal cycling test,100 $^{\circ}$ C	VDE
Photo Coupler (U1) (Alt.)	Renesas	PS2561-1	Dti=0.4mm, EXT.dcr=7.0mm, thermal cycling test,100 $^{\circ}$ C	VDE
Photo Coupler (U1) (Alt.)	Fairchild Semiconductor Pte Ltd	H11A817B, FOD817B	Insulation voltage: 850V; Transient overvoltage: 6000V; CTI175; Int. Cr/ Ext. Cr: \geq 7,0/ 7,0 mm; 30/110/21	VDE

[서식 CP401-18-00]



기술문서 Technical Document

page: 6 / 9

안전인증번호: HU10499 -19037A
(Certificate No)

접수번호: 20190502 - 0004
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer (Brand)	모델명(형식) Model (Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Photo Coupler (U1) (Alt.)	Sharp Corporation Electronic Components and Devices Group	PC817	Insulation voltage: 890V; Transient overvoltage: 9000V Int. Cr/ Ext. Cr: 7,62/ 7,62 mm; 30/100/21	VDE
Bridging capacitor (CY1) (optional)	TDK-EPC Corporation, Capacitors Group Circuit Devices Business Group	CD	Min.250V, Min.125 ℃, Y1, Max.1000pF	IEC
Bridging capacitor (CY1) (optional) (Alt.)	Success Electronics Co., Ltd.	SB	Min.250V, Min.125 ℃, Y1, Max.1000pF	IEC
Bridging capacitor (CY1) (optional) (Alt.)	Success Electronics Co., Ltd.	SE	Min.250V, Min.125 ℃, Y1, Max.1000pF	IEC
Bridging capacitor (CY1) (optional) (Alt.)	Walsin Technology Corp.	AH	Min.250V, Min.125 ℃, Y1, Max.1000pF	IEC
Bridging capacitor (CY1) (optional) (Alt.)	Haohua Electronic Co.	CT 7	Min.250V, Min.125 ℃, Y1, Max.1000pF	IEC
Bridging capacitor (CY1) (optional) (Alt.)	Xiangtai Electronic (Shenzhen) Co., Ltd.	YO-series	Min.250V, Min.125 ℃, Y1, Max.1000pF	IEC
Bridging capacitor (CY1) (optional) (Alt.)	JUHONG ELECTRONICS LTD	JB- series	Min.250V, Min.125 ℃, Y1, Max.1000pF	IEC
Transformer (T1)	ENG GlobTek BOAM Haopuwei	XF00936(12- 17.9V), XF00945(18- 22V), XF00946(22.1- 24V)	Class B	-
- Magnet wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U, UEWS/U	130 ℃	UL
- Magnet wire (Alt.)	JUNG SHING WIRE CO LTD	UEW-4, UEY-2	130 ℃	UL

[서식 CP401-18-00]



기술문서 Technical Document

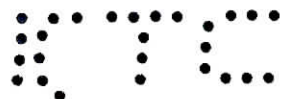
page: 7 / 9

안전인증번호: HU10499 -19037A
(Certificate No)

접수번호: 20190502 - 0004
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer (Brand)	모델명(형식) Model (Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
- Magnet wire (Alt.)	JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	130 ℃	UL
- Magnet wire (Alt.)	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	130 ℃	UL
- Magnet wire (Alt.)	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	130 ℃	UL
- Magnet wire (Alt.)	JIANGSU DARTONG M & E CO LTD	UEW	130 ℃	UL
- Magnet wire (Alt.)	SHANDONG SAINT ELECTRIC CO LTD	UEW/130	130 ℃	UL
- Magnet wire (Alt.)	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	130 ℃	UL
- Triple insulated wire (Secondary)	GREAT LEOFLOON INDUSTRIAL CO.,LTD.	TRW (B)	130 ℃	UL
- Triple insulated wire (Secondary) (Alt.)	COSMOLINK CO LTD	TIW-M	130 ℃	UL
- Triple insulated wire (Secondary) (Alt.)	FURUKAWA ELECTRIC CO LTD	TEX-E	130 ℃	UL
- Triple insulated wire (Secondary) (Alt.)	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TIW	130 ℃	UL
- Triple insulated wire (Secondary) (Alt.)	SHENZHEN JIUDING NEW MATERIAL CO LTD	DTIW-B	130 ℃	UL
- Bobbin	CHANG CHUN PLASTICS CO LTD	T375J, T375HF	V-0, 150℃, thickness 0.45 mm min.	UL
- Bobbin (Alt.)	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150℃, thickness 0.45 mm min.	UL

[서식 CP401-18-00]



기술 문서 Technical Document

page: 8 / 9

안전인증번호: HU10499 -19037A
(Certificate No)

접수번호: 20190502 - 0004
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer (Brand)	모델명(형식) Model (Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
- Bobbin (Alt.)	HITACHI CHEMICAL CO LTD	CP-J-8800	V-0, 150°C, thickness 0.45 mm min.	UL
- Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1, 1350T-1, 44	130 °C	UL
- Insulating tape (Alt.)	BONDTEC PACIFIC CO LTD	370S	130 °C	UL
- Insulating tape (Alt.)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ, CT	130 °C	UL
- Insulating tape (Alt.)	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	130 °C	UL
- Insulating tape (Alt.)	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	130 °C	UL
Discharge Resistor (RS1, RS2)	Interchangeable	Interchangeable	SMD 1206 1.5M 500V 1/4W ±5%	-

[서식 CP401-18-00]



기술문서 Technical Document

page: 9 / 9

안전인증번호: HU10499 -19037A
(Certificate No)

접수번호: 20190502 - 0004
(Receipt No)

3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

일자(Date)	발급현황(Status of issues)
	변경내용(Modification of Contents)
2019/05/28	기본+파생모델등록(Basic + Series 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):



기술문서붙임자료

안전인증번호: HU10499-19037A

접수번호: 20190502-0004

No.1 표시사항

전기용품안전관리법에 의한 표시

안전인증번호(安全认证编号): HUXXXXXX-XXXXXX

제품명(产品名): AC/DC Adaptor

모델명(型号名): GT-46401-4015

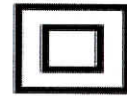
정격: (额定) Input: 100-240V~, 50-60Hz, 1.0A
Output: 15V, 2.66A

제조사(工厂名): GlobTek (Suzhou) Co.,Ltd.

제조국(制造国): China

제조년월(制造年月): 02-3451-3400

A/S 연락처(A/S 韩国售后服务联络处):



No.2 외부1

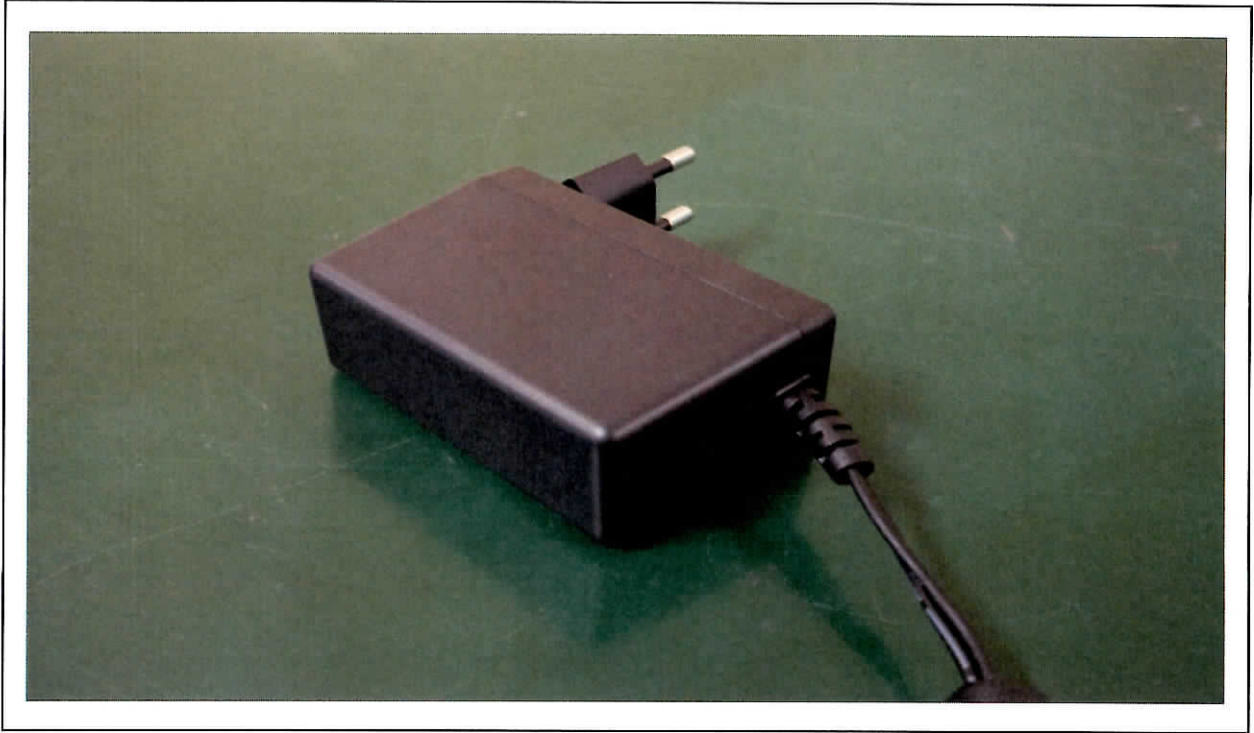


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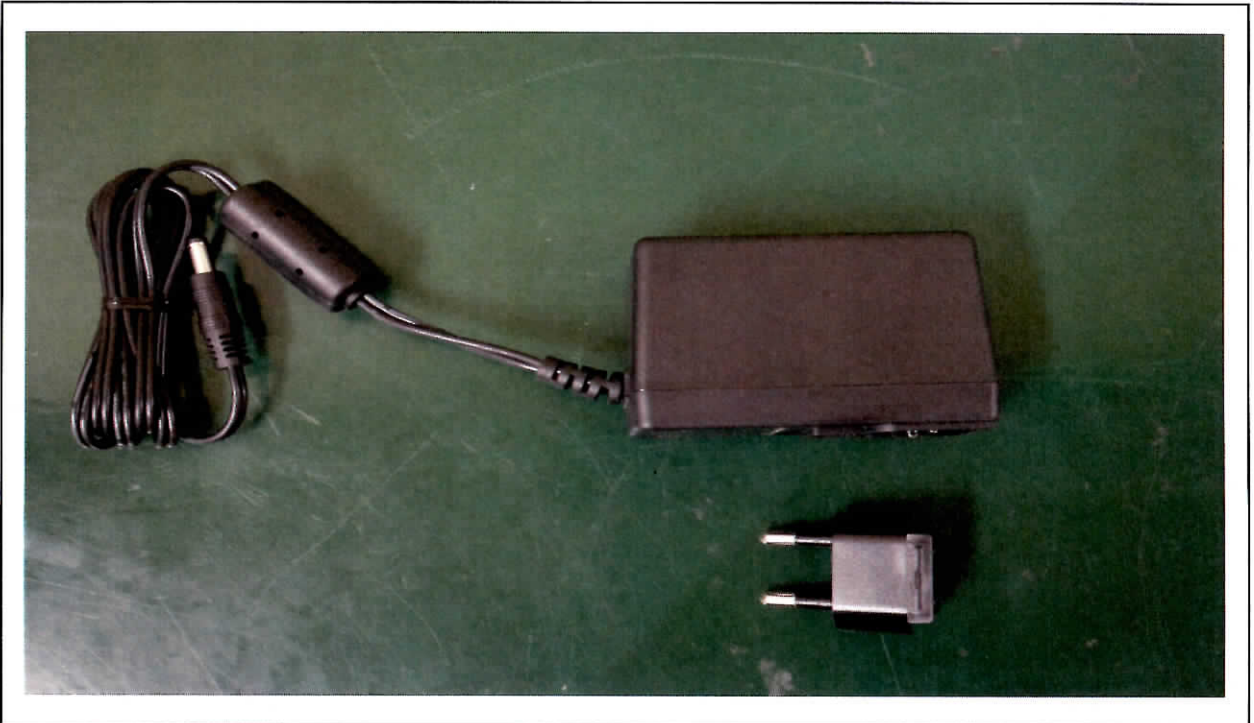
안전인증번호 : HU10499-19037A

접수번호 : 20190502-0004

No.3 외부2



No.4 외부3



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안전인증번호 : HU10499-19037A

접수번호 : 20190502-0004

No.5 외부4



No.6 내부1

