



접수번호 : 20160524-0039

# 전기용품안전인증서 Electrical Appliances Safety Certificate

**안전인증번호:** HU10499-16030A  
(Certificate No.)

**제조업자명:** GlobTek (Suzhou) Co., Ltd.  
(Manufacturer)

**대표자명:** David Micheal Rakovsky  
(President)

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

**제품명:** 직류전원장치  
(Product)

**기본모델명:** GT-46401-4024  
(Basic Model)

**정격:** 100-240 V~, 50-60 Hz, 1.0 A (O/P: 24 Vdc, 1.66 A)  
(Rating)

**파생모델명 (Series Model):**  
GT-46401-3024

**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 6 월 27 일  
(Year) (Month) (Day)

**한국기계전기전자시험연구원**  
**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)	내용 (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)	Direct plug-in equipment and provided with the plastic enclosure having min. V-1 flammability.
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)

구분 (Class)	모델명 및 정격 (Model / Rating)		기본모델과의 차이점 (Difference between basic model and series model)
기본모델 (Basic model)	GT-46401-4024	100-240 V~, 50-60 Hz, 1.0 A (O/P: 24 Vdc, 1.66 A)	
파생모델 (Series model)	GT-46401-3024		Identical to basic model except for model designation and output rating (O/P: 24 Vdc, 1.25 A)



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

부품명 (Components)	번호 (Part No)	특성 (Technical Data)	제조사 (Manufacturer)	인증규격 (Certification)
Plug Holder	-	Type: SE1X (GG) (f1), 945 (GG), Min. V-1, min. 2.0 mm thickness, 105 ℃	SABIC INNOVATIVE PLASTICS B V	UL
PCB	-	Type: T2, T2A, T2B, T4, Min. 1.6 mm thickness, min. V-0, 130 ℃	WALEX ELECTRONIC (WUXI) CO LTD	UL
Enclosure	-	Type: SE1X (GG) (f1), 945 (GG), Min. V-1, min. 2.0 mm thickness, 105 ℃	SABIC INNOVATIVE PLASTICS B V	UL
Plug Holder	- (alt)	Type: LN-1250P, LN-1250G, Min. V-0, min. 1.5 mm thickness, 115 ℃	TEIJIN CHEMICALS LTD	UL
PCB	- (alt)	Type: 02V0, 04V0, Min. 1.6 mm thickness, min. V-0, 130 ℃	SHANGHAI AREX PRECISION ELECTRONIC CO LTD	UL
PCB	- (alt)	Type: 03, 02, 03A, Min. 1.6 mm thickness, min. V-0, 130 ℃	CHEERFUL ELECTRONIC	UL
PCB	- (alt)	Type: 1V0, Min. 1.6 mm thickness, min. V-0, 130 ℃	YUANMAN PRINTED CIRCUIT CO LTD	UL
PCB	- (alt)	Type: C-2, C-2A, Min. 1.6 mm thickness, min. V-0, 130 ℃	KUOTIANG ENT LTD	UL
PCB	- (alt)	Type: CEM1, 2V0, FR4, Min. 1.6 mm thickness, min. V-0, 130 ℃	DONGGUAN HE TONG ELECTRONICS CO LTD	UL
PCB	- (alt)	Type: DFD-1, Min. 1.6 mm thickness, min. V-0, 130 ℃	JIANGSU DIFEIDA ELECTRONICS CO LTD	UL
PCB	- (alt)	Type: DKV0-3A, DGV0-3A, Min. 1.6 mm thickness, min. V-0, 130 ℃	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	UL
PCB	- (alt)	Type: DS2, Min. 1.6 mm thickness, min. V-0, 130 ℃	DONGGUAN DAYSUN ELECTRONIC CO LTD	UL
PCB	- (alt)	Type: HS-S, Min. 1.6 mm thickness, min. V-0, 130 ℃	KUNSHAN CITY HUA SHENG CIRCUIT BOARD CO LTD	UL
PCB	- (alt)	Type: PW-02, PW-03, Min. 1.6 mm thickness, min. V-0, 130 ℃	PACIFIC WIN INDUSTRIAL LTD	UL





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부품명 (Components)	번호 (Part No)	특성 (Technical Data)	제조사 (Manufacturer)	인증규격 (Certification)
X-Capacitor	CX1 (alt)	Type: MEX, MPX, NPX, Max 0.33 $\mu$ F, Min. 250 V	Dain Electronics Co., Ltd.	IEC
X-Capacitor	CX1 (alt)	Type: MEX, Max 0.33 $\mu$ F, Min. 250 V	Tenta Electric Industrial Co. Ltd.	IEC
X-Capacitor	CX1 (alt)	Type: MPX, Max 0.22 $\mu$ F, Min. 250 V	Joey Electronics (Dong Guan) Co., Ltd.	IEC
X-Capacitor	CX1 (alt)	Type: MPX, Max 0.33 $\mu$ F, Min. 250 V	Carli Electronics Co., Ltd.	IEC
Bridge Capacitor	CY1	Type: CD, Min. 250 V, Max. 1000 pF, Y1	TDK-EPC Corporation, Capacitors Group Circuit Devices Business Group	IEC
Bridge Capacitor	CY1 (alt)	Type: AH, Min. 250 V, Max. 1000 pF, Y1	Walsin Technology Corp.	IEC
Bridge Capacitor	CY1 (alt)	Type: SB, Min. 250 V, Max. 1000 pF, Y1	Success Electronics Co., Ltd.	IEC
Bridge Capacitor	CY1 (alt)	Type: SE, Min. 250 V, Max. 1000 pF, Y1	Success Electronics Co., Ltd.	IEC
Bridge Capacitor	CY1 (alt)	Type: JB-series, Min. 250 V, Max. 1000 pF, Y1	JUHONG ELECTRONICS LTD	IEC
Bridge Capacitor	CY1 (alt)	Type: CT 7, Min. 250 V, Max. 1000 pF, Y1	Haohua Electronic Co.	IEC
Bridge Capacitor	CY1 (alt)	Type: YO-series, Min. 250 V, Max. 1000 pF, Y1	Xiangtai Electronic (Shenzhen) Co., Ltd.	IEC
Fuse	FS1	Type: MST series, T2 AL, 250 V	Conquer Electronics Co., Ltd.	IEC
Fuse	FS1 (alt)	Type: 2010 Serie (s), T2 AL, 250 V	Ever Island Electric Co., Ltd. And Walter Electric	IEC
Fuse	FS1 (alt)	Type: RST-Serie (s), T2 AL, 250 V	Bel Fuse Ltd.	IEC
Fuse	FS1 (alt)	Type: SS-5, T2 AL, 250 V	Cooper Bussmann LLC	IEC



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부품명 (Components)	번호 (Part No)	특성 (Technical Data)	제조사 (Manufacturer)	인증규격 (Certification)
Fuse	FS1 (alt)	Type: 932, T2 AL, 250 V	Dongguan Better	IEC
Fuse	FS1 (alt)	Type: 5ET-series, T2 AL, 250 V	Hollyland	IEC
Transformer	T1	Type: XF00946 (22.1-24V), Class B	GlobTek BOAM Haopuwei	-
Photo Coupler	U1	Type: EL817, Dti= 0.5 mm Int.	Everlight Electronics Co., Ltd.	VDE
Photo Coupler	U1 (alt)	Type: BPC-817, BPC-817 M, BPC-817 S, Dti= 0.4 mm	Bright Led Electronics Corp.	VDE
Photo Coupler	U1 (alt)	Type: H11A817B, FOD817B	Fairchild Semiconductor Pte Ltd	VDE
Photo Coupler	U1 (alt)	Type: K1010, KP1010, Dti= 0.6 mm Int.	COSMO Electronics Corporation	VDE
Photo Coupler	U1 (alt)	Type: LTV-817, Dti= 0.8 mm	Lite-On Technology Corporation	VDE
Photo Coupler	U1 (alt)	Type: PC817	Sharp Corporation Electronic Components and Devices Group	VDE
Photo Coupler	U1 (alt)	Type: PS2561-1, Dti= 0.4 mm	Renesas	VDE

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### 3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

일자(Date)	발급현황(Status of issues)
	변경내용(Modification of Contents)
2016/06/27	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):

