접수번호 : 20190827-0099

안 전 인 증 서
Safety Certificate

안전인증번호: HU10499-19039A
(Certificate No.)
제조업자/수입업자명: GlobTek (Suzhou) Co., Ltd.
(Manufacturer/importer)
주 소: Building 4, #76, Jin Ling East Rd., Suzhou Park, Suzhou, Jiangsu 215021, P.R.China
(Address)
제 품 명: 직류전원장치
(Product)
기본모델명: GTM96600-6554-R2
(Basic Model)
파생모델명 (Series Model):

GTM96600-6041-R2	GTM96600-6041-T2
GTM96600-6042-R2	GTM96600-6042-T2
GTM96600-6043-R2	GTM96600-6043-T2
GTM96600-6044-R2	GTM96600-6044-T2
GTM96600-6045-R2	이면기재

정격/안전기준상의 모델구분: 100-240 V~, 50-60 Hz, 1.5 A(O/P: 54 Vdc, 1.2 A)
(Rating)
시 험 기 준: K 60950-1(2011-12)
(Standard)

본 인증서는 제 조 국 명: 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 (Year) 10 월 (Month) 10 일 (Day)

한국기계전기전자시험연구원 KCTC Certificate Korea Testing Certification

한국기계전기전자시험연구원장
Korea Testing Certification

한국기계전기전자시험연구원장인

※ 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)

GTM96600-6045-T2
GTM96600-6046-T2
GTM96600-6047-T2
GTM96600-6048-T2
GTM96600-6049-T2
GTM96600-6050-T2
GTM96600-6051-T2
GTM96600-6052-T2
GTM96600-6053-T2
GTM96600-6054-T2
GTM96600-6541-T2
GTM96600-6542-T2
GTM96600-6543-T2
GTM96600-6544-T2
GTM96600-6545-T2
GTM96600-6546-T2
GTM96600-6547-T2
GTM96600-6548-T2
GTM96600-6549-T2
GTM96600-6550-T2
GTM96600-6551-T2
GTM96600-6552-T2
GTM96600-6553-T2

GTM96600-6046-R2
GTM96600-6047-R2
GTM96600-6048-R2
GTM96600-6049-R2
GTM96600-6050-R2
GTM96600-6051-R2
GTM96600-6052-R2
GTM96600-6053-R2
GTM96600-6054-R2
GTM96600-6541-R2
GTM96600-6542-R2
GTM96600-6543-R2
GTM96600-6544-R2
GTM96600-6545-R2
GTM96600-6546-R2
GTM96600-6547-R2
GTM96600-6548-R2
GTM96600-6549-R2
GTM96600-6550-R2
GTM96600-6551-R2
GTM96600-6552-R2
GTM96600-6553-R2
GTM96600-6554-T2

기술문서붙임자료

안전인증번호: HU10499-19039A　　접수번호:20190827-0099

No.1　표시사항

전기용품안전관리법에 의한 표시

안전인증번호(安全认证编号): HUXXXXX-XXXXX

제 품 명(产 品 名): AC/DC Adaptor

모 델 명(型 号 名): GTM96600-6554-R2

정　　격 : (额 定) Input: 100-240V~, 50-60Hz, 1.5A
Output: 54V, 1.2A

제조자(工 厂名): GlobTek (Suzhou) Co.,Ltd.

제 조 국(制 造 国):China

제조년월(制造年月): 2019.09

A/S 연락처(A/S 韩国售后服务联络处): 02-3451-3400

No.2　외부사진

기 술 문 서
Technical Document

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(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 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)

구 분 (Class)	모 델 명 및 정 격 (Model / Rating)		기본모델과의 차이점 (Difference between basic model and series model)
기본모델 (Basic model)	GTM96600-6554-R2	100-240 V~, 50-60 Hz, 1.5 A(O/P: 54 Vdc, 1.2 A)	
파생모델 (Series model)	GTM96600-6049-R2		All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 49 Vdc, 1.22 A)
	GTM96600-6050-R2		All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 50 Vdc, 1.2 A)

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

	GTM96600-6051-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 51 Vdc, 1.17 A)
	GTM96600-6052-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 52 Vdc, 1.15 A)
	GTM96600-6053-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 53 Vdc, 1.13 A)
	GTM96600-6054-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 54 Vdc, 1.11 A)
	GTM96600-6549-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 49 Vdc, 1.32 A)
	GTM96600-6550-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 50 Vdc, 1.3 A)
	GTM96600-6551-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 51 Vdc, 1.27 A)

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

	GTM96600-6552-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 52 Vdc, 1.25 A)
	GTM96600-6553-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 53 Vdc, 1.22 A)
	GTM96600-6049-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 49 Vdc, 1.22 A)
	GTM96600-6050-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 50 Vdc, 1.2 A)
	GTM96600-6051-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 51 Vdc, 1.17 A)
	GTM96600-6052-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 52 Vdc, 1.15 A)
	GTM96600-6053-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 53 Vdc, 1.13 A)

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

	GTM96600-6054-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 54 Vdc, 1.11 A)
	GTM96600-6549-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 49 Vdc, 1.32 A)
	GTM96600-6550-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 50 Vdc, 1.3 A)
	GTM96600-6551-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 51 Vdc, 1.27 A)
	GTM96600-6552-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 52 Vdc, 1.25 A)
	GTM96600-6553-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 53 Vdc, 1.22 A)
	GTM96600-6554-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 54 Vdc, 1.2 A)

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

	GTM96600-6548-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 48 Vdc, 1.35 A)
	GTM96600-6041-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 41 Vdc, 1.46 A)
	GTM96600-6042-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 42 Vdc, 1.42 A)
	GTM96600-6043-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 43 Vdc, 1.39 A)
	GTM96600-6044-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 44 Vdc, 1.36 A)
	GTM96600-6045-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 45 Vdc, 1.33 A)
	GTM96600-6046-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 46 Vdc, 1.3 A)

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

	GTM96600-6047-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 47 Vdc, 1.27 A)
	GTM96600-6048-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 48 Vdc, 1.25 A)
	GTM96600-6541-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 41 Vdc, 1.58 A)
	GTM96600-6542-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 42 Vdc, 1.54 A)
	GTM96600-6543-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 43 Vdc, 1.51 A)
	GTM96600-6544-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 44 Vdc, 1.47 A)
	GTM96600-6545-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 45 Vdc, 1.44 A)

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

	GTM96600-6546-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 46 Vdc, 1.41 A)
	GTM96600-6547-R2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 47 Vdc, 1.38 A)
	GTM96600-6041-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 41 Vdc, 1.46 A)
	GTM96600-6042-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 42 Vdc, 1.42 A)
	GTM96600-6043-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 43 Vdc, 1.39 A)
	GTM96600-6044-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 44 Vdc, 1.36 A)
	GTM96600-6045-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 45 Vdc, 1.33 A)

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

	GTM96600-6046-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 46 Vdc, 1.3 A)
	GTM96600-6047-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 47 Vdc, 1.27 A)
	GTM96600-6048-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 48 Vdc, 1.25 A)
	GTM96600-6541-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 41 Vdc, 1.58 A)
	GTM96600-6542-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 42 Vdc, 1.54 A)
	GTM96600-6543-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 43 Vdc, 1.51 A)
	GTM96600-6544-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 44 Vdc, 1.47 A)

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

	GTM96600-6545-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 45 Vdc, 1.44 A)
	GTM96600-6546-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 46 Vdc, 1.41 A)
	GTM96600-6547-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 47 Vdc, 1.38 A)
	GTM96600-6548-T2	All models have the same schematic, PCB layout,Partial inlet is different, only change the secondary component value to assign the output rating(O/P: 48 Vdc, 1.35 A)

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

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

부품명(회로기호) Components(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
PCB	WALEX ELECTRONIC (WUXI) CO LTD	T2, T2A, T2B T4	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL
PCB (alt)	DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1 2V0 FR4	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL
PCB (alt)	CHEERFUL ELECTRONIC (HK) LTD	02 03 03A	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL
PCB (alt)	DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL
PCB (alt)	DAFENG AREX ELECTRONICS TECHNOLOGY CO LTD	02V0 04V0	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL
PCB (alt)	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A DGV0-3A	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL
PCB (alt)	KUOTIANG ENT LTD	C-2 C-2A	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL
PCB (alt)	SHENZHEN TONGCHUANGXI N ELECTRONICS CO LTD	TCX	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL
PCB (alt)	PACIFIC WIN INDUSTRIAL LTD	PW-02 PW-03	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL
PCB (alt)	YUANMAN PRINTED CIRCUIT CO LTD	1V0	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL
PCB (alt)	SUZHOU XINKE ELECTRONICS CO LTD	XK-2, XK-3	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL
PCB (alt)	KUNSHAN CITY HUA SHENG CIRCUIT BOARD CO LTD	HS-S	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

부품명(회로기호) Components(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
PCB (alt)	HUIZHOU SHUNJIA ELECTRONICS CO LTD	SJ-B	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL
PCB (alt)	SHANGHAI HFAST ELECTRONICS CO LTD	411001, 211001	Min. 1.6 mm thickness, min. V-0, 130 ℃	UL
Fuse (F1, F2)	Conquer Electronics Co., Ltd.	MST series	T3.15 A, 250 V	IEC
Fuse (F1, F2) (alt)	Ever Island Electric Co., Ltd. And Walter Electric	2010, ICP	T3.15 A, 250 V	IEC
Fuse (F1, F2) (alt)	Bel Fuse Ltd.	RST-Serie(s)	T3.15 A, 250 V	IEC
Fuse (F1, F2) (alt)	Cooper Bussmann LLC	SS-5	T3.15 A, 250 V	IEC
Fuse (F1, F2) (alt)	Shenzhen Lanson Electronics Co. Ltd.	SMT	T3.15 A, 250 V	IEC
Fuse (F1, F2) (alt)	Das & Sons International Ltd.	385T series	T3.15 A, 250 V	IEC
Fuse (F1, F2) (alt)	Dongguan Better Electronics Technology Co., Ltd.	932	T3.15 A, 250 V	IEC
Fuse (F1, F2) (alt)	Hollyland Company Limited	5ET	T3.15 A, 250 V	IEC
Fuse (F1, F2) (alt)	Sunny East Enterprise Co. Ltd.	CFD-Serie(s	T3.15 A, 250 V	IEC
Fuse (F1, F2) (alt)	Conquer Electronics Co., Ltd.	MET series	T3.15 A, 250 V	IEC
Fuse (F1, F2) (alt)	Zhongshan Lanbao Electrical Appliances Co., Ltd.	RTI-10 Serie(s)	T3.15 A, 250 V	IEC
Y-Capacitor (CY1, CY2) (Optional)	TDK-EPC Corporation, Capacitors Group Circuit Devices Business Group	CD	Y1, AC 250 V, max 2200 pF	IEC
Y-Capacitor (CY1, CY2) (Optional) (alt)	Success Electronics Co., Ltd.	SE	Y1, AC 250 V, or AC 500 V, max 2200 pF	IEC

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

부품명(회로기호) Components(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Y-Capacitor (CY1, CY2) (Optional) (alt)	Success Electronics Co., Ltd.	SB	Y1, AC 250 V, max 2200 pF	IEC
Y-Capacitor (CY1, CY2) (Optional) (alt)	Murata Mfg. Co., Ltd.	KX	Y1, AC 250 V, max 2200 pF	IEC
Y-Capacitor (CY1, CY2) (Optional) (alt)	Walsin Technology Corp.	AH	Y1, AC 250 V, max 2200 pF	IEC
Y-Capacitor (CY1, CY2) (Optional) (alt)	JYA-NAY Co., Ltd.	JN	Y1, AC 250 V, max 2200 pF	IEC
Y-Capacitor (CY1, CY2) (Optional) (alt)	Haohua Electronic Co.	CT 7	Y1, AC 250 V, max 2200 pF	IEC
Y-Capacitor (CY1, CY2) (Optional) (alt)	Jyh Chung Electronic Co., Ltd.	JD	Y1, AC 250 V, max 2200 pF	IEC
Y-Capacitor (CY1, CY2) (Optional) (alt)	Jerro Electronics Corp.	JX-series	Y1, AC 250 V, max 2200 pF	IEC
Y-Capacitor (CY1, CY2) (Optional) (alt)	WELSON INDUSTRIAL CO LT D	WD	Y1, AC 250 V, max 2200 pF	IEC
X-capacitor (CX1) (Optional)	Cheng Tung Industrial Co., Ltd.	CTX	Min. 300 VAC, Max. 0.47 µF,110 ℃, X1 or X2	IEC
X-capacitor (CX1) (Optional)	Tenta Electric Industrial Co. Ltd.	MEX	Min. 250 VAC, Max. 0.47 µF, X1 or X2	IEC
X-capacitor (CX1) (Optional) (alt)	Joey Electronics (Dong Guan) Co., Ltd.	MPX	Min. 250 VAC, Max. 0.47 µF, X1 or X2	IEC
X-capacitor (CX1) (Optional) (alt)	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	Min. 250 VAC, Max. 0.47 µF, X1 or X2	IEC
X-capacitor (CX1) (Optional) (alt)	Yuon Yu Electronics Co. Ltd.	MPX	Min. 250 VAC, Max. 0.47 µF, X1 or X2	IEC
X-capacitor (CX1) (Optional) (alt)	Sinhua Electronics (Huzhou) Co., Ltd.	MPX	Min. 250 VAC, Max. 0.47 µF, X1 or X2	IEC
X-capacitor (CX1) (Optional) (alt)	Jiangsu Xinghua Huayu Electronics Co., Ltd.	MPX - Series	Min. 250 VAC, Max. 0.47 µF, X1 or X2	IEC

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

부품명(회로기호) Components(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
X-capacitor (CX1) (Optional) (alt)	Dain Electronics Co., Ltd.	MEX, MPX, NPX	Min. 250 VAC, Max. 0.47 µF, X1 or X2	IEC
X-capacitor (CX1) (Optional) (alt)	Shenzhen Jinghao Capacitor Co., Ltd.	CBB62B	Min. 250 VAC, Max. 0.47 µF, X1 or X2	IEC
X-capacitor (CX1) (Optional) (alt)	Foshan Shunde Chuang Ge Electronic Industrial Co., Ltd.	MKP-X2	Min. 250 VAC, Max. 0.47 µF, X2	IEC
X-capacitor (CX1) (Optional) (alt)	Okaya Electric Industries Co. LTD	RE-Series	Min. 250 VAC, Max. 0.47 µF, X2	IEC
X-capacitor (CX1) (Optional) (alt)	VISHAY Capacitors Belgium NV	F 1772	Min. 250 VAC, Max. 0.47 µF, X2	IEC
X-capacitor (CX1) (Optional) (alt)	Winday Electronic Industrial Co., Ltd.	MPX series	Min. 250 VAC, Max. 0.47 µF, X2	IEC
Photo coupler (U4)	Everlight Electronics Co., Ltd.	EL817	Dti=0.5 mm Int. , dcr=6.0 mm EXT.dcr=7.7 mm, thermal cycling test, 110 ℃	IEC
Photo coupler (U4) (alt)	COSMO Electronics Corporation	K1010 / KP1010	Dti=0.6 mm Int. , dcr=4.0 mm EXT.dcr=5.0 mm, thermal cycling test, 115 ℃	IEC
Photo coupler (U4) (alt)	Lite-On Technolog Corporation	LTV-817	Dti=0.8 mm Int. , EXT.dcr=7.8 mm, thermal cycling test, 100 ℃	IEC
Photo coupler (U4) (alt)	Fairchild Semiconductor Pte Ltd.	H11A817B / FOD817B	Insulation voltage: 850 V; Transient overvoltage: 6000 V; CTI175; Int. Cr/ Ext. Cr: ≥7,0/ 7,0 mm;	IEC
Photo coupler (U4) (alt)	Sharp Corporation Electronic Components and Devices Group	PC817	Insulation voltage: 890 V; Transient overvoltage: 9000 V Int. Cr/ Ext. Cr: 7.62/ 7.62 mm;	IEC

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

부품명(회로기호) Components(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Photo coupler (U4) (alt)	Bright Led Electronics Corp.	BPC-817 A/B/C/D/L BPC-817 M BPC-817 S	Dti=0.4 mm EXT.dcr=7.0 mm, thermal cycling test, 100 ℃	IEC
Photo coupler (U4) (alt)	Toshiba Corporation Semiconductor & Storage Products Company	TLP817F	Dti > 0.4 mm, Ext cr > 8.0 mm, Isolation 3000 Vac min., 110 ℃ min., Thermal cycling test	IEC
Varistor (MOV1)	Thinking Electronic Industrial Co., Ltd.	TVR10471K, TVR14471K	Max. Continuous voltage: min 300 Vac(rms), 85 ℃, The coating is V-0	IEC
Varistor (MOV1) (alt)	Centra Science Corp.	10D471K, 14D471K	Max. Continuous voltage: min 300 Vac(rms), 85 ℃, The coating is V-0	IEC
Varistor (MOV1) (alt)	Success Electronics Co., Ltd.	SVR10D471K SVR14D471K	Max. Continuous voltage: min 300 Vac(rms), 85 ℃, The coating is V-0	IEC
Varistor (MOV1) (alt)	Walsin Technology Co., Ltd.	14D471K	Max. Continuous voltage: min 300 Vac(rms), 85 ℃, The coating is V-0	IEC
Varistor (MOV1) (alt)	Lien Shun Electronics Co., Ltd.	14D471K	Max. Continuous voltage: min 300 Vac(rms), 85 ℃, The coating is V-0	IEC
Varistor (MOV1) (alt)	Ceramate Techn. Co., Ltd.	GNR10D471K GNR14D471K	Max. Continuous voltage: min 300 Vac(rms), 85 ℃, The coating is V-0	IEC
Varistor (MOV1) (alt)	Brightking (Shenzhen) Co., Ltd.	14D471K 10D471K	Max. Continuous voltage: min 300 Vac(rms), 85 ℃, The coating is V-0	IEC

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

부품명(회로기호) Components(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Varistor (MOV1) (alt)	Joyin Co., Ltd.	JVR10N471K JVR14N471K	Max. Continuous voltage: min 300 Vac(rms), 85 ℃, The coating is V-0	IEC
Appliance Inlet CN1 (C8 type)	Zhejiang LECI Electronics Co., Ltd.	DB-8	2.5 A, 250 Vac	IEC
Appliance Inlet CN1 (C8 type) (alt)	Rich Bay Co., Ltd.	R-201SN90	2.5 A, 250 Vac	IEC
Appliance Inlet CN1 (C8 type) (alt)	Sun Fair Electric Wire & Cable (HK) Co. Ltd.	S-01	2.5 A, 250 Vac	IEC
Appliance Inlet CN1 (C8 type) (alt)	TECX-UNIONS Technology Corporation	SO-222	2.5 A, 250 Vac	IEC
Appliance Inlet CN1 (C8 type) (alt)	Rong Feng Industrial Co., Ltd.	RF-180	2.5 A, 250 Vac	IEC
Appliance Inlet CN1 (C8 type) (alt)	Inalways Corporation	0721	2.5 A, 250 Vac	IEC
Appliance Inlet CN1 (C8 type) (alt)	Zhe Jiang Bei Er jia	ST-A03-005	2.5 A, 250 Vac	IEC
Appliance Inlet CN1 (C8 type) (alt)	Shenzhen Delikang Electronics Technology Co. Ltd.	CDJ-8	2.5 A, 250 Vac	IEC
Transformer (T1)	ENG / GlobTek / BOAM / HAOPUWEI	TF061	Class B	-
Enclosure	SABIC INNOVATIVE PLASTICS B V	SE1X, SE1	PPE+PS, Min. V-1, Min. thickness: 2.0 mm, 105 ℃	UL
Enclosure (alt)	SABIC INNOVATIVE PLASTICS B V	SE100	PPE+PS, Min. V-1, Min. thickness: 2.0 mm, 95 ℃	UL
Enclosure (alt)	SABIC INNOVATIVE PLASTICS B V	C2950	PC/ABS, Min. V-0, Min. thickness: 2.0 mm, 85 ℃	UL
Enclosure (alt)	SABIC INNOVATIVE PLASTICS B V	CX7211 EXCY0098	PC/ABS, Min. V-1, Min. thickness: 2.0 mm, 90 ℃	UL
Enclosure (alt)	SABIC INNOVATIVE PLASTICS B V	945	PC, Min. V-1, Min. thickness: 2.0 mm, 120 ℃	UL

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

부품명(회로기호) Components(Part no.)	제조자(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Enclosure (alt)	SABIC INNOVATIVE PLASTICS B V	HF500R	PC, V-0, Min. thickness: 2.0 mm, 125 ℃	UL
Enclosure (alt)	TEIJIN CHEMICALS LTD	LN-1250P LN-1250G	PC, Min. V-0, Min. thickness: 2.0 mm, 115 ℃	UL
Enclosure (alt)	CHI MEI CORPORATION	PA-765A	ABS, Min. V-0, Min. thickness: 2.0 mm, 85 ℃	UL
Enclosure (alt)	CHI MEI CORPORATION	PC-540	PC/ABS, Min. V-0, Min. thickness: 2.0 mm, 70 ℃	UL

안전인증번호: HU10499 -19039A
(Certificate No)

접수번호: 20190827 - 0099
(Receipt No)

3.전기용품안전인증의 변경현황(Status of Certificate Revisions)

일자(Date)	발급현황(Status of issues)
	변경내용(Modification of Contents)
2019/10/10	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: HU10499-19039A　　접수번호:20190827-0099

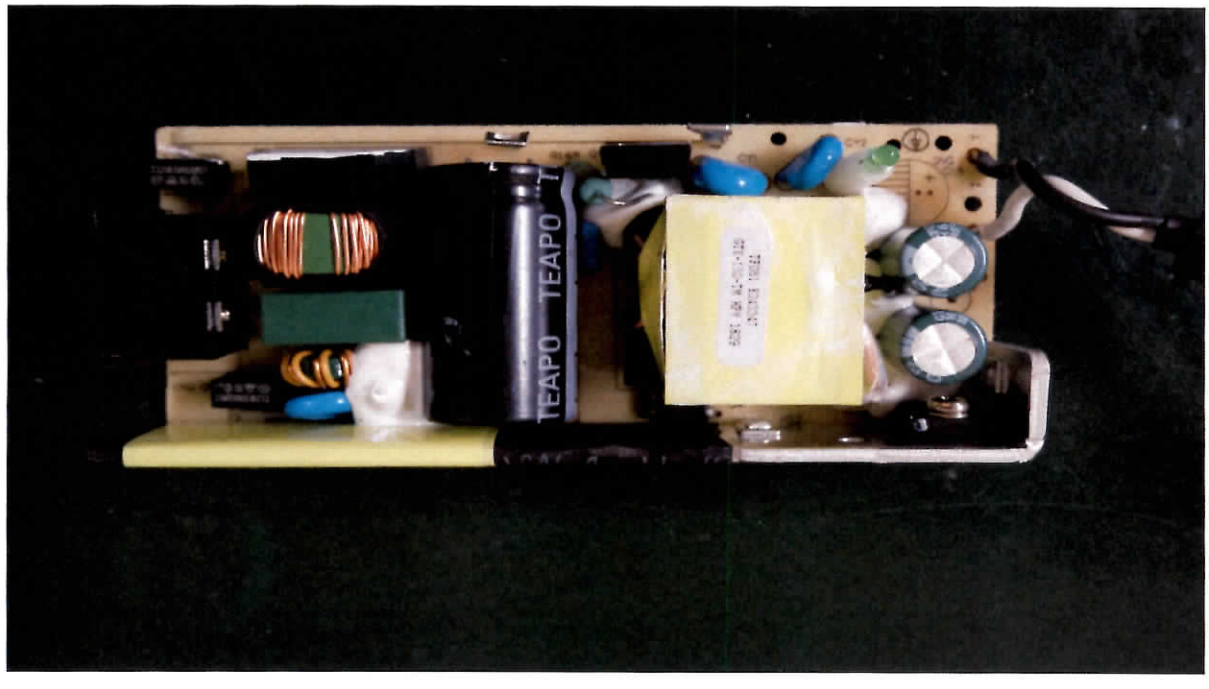
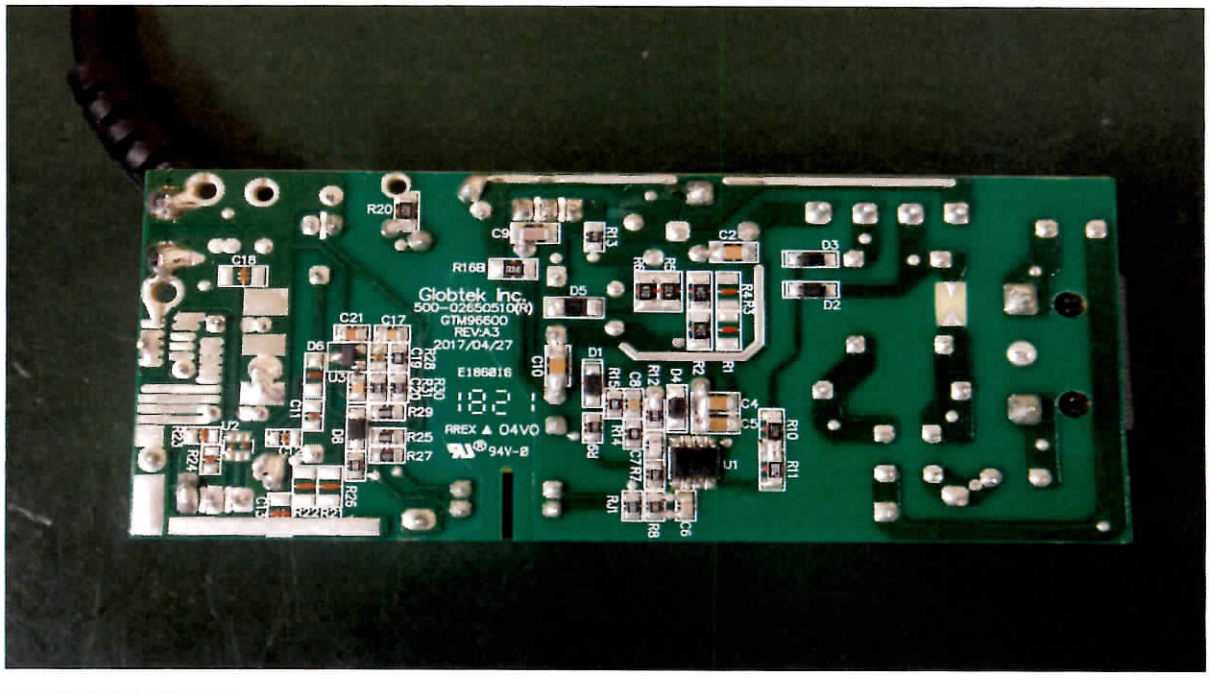
No.3　외부사진

No.4　외부사진

기술문서붙임자료

안전인증번호: HU10499-19039A 접수번호:20190827-0099

No.5 내부사진



No.6 내부사진