



안전인증서

Safety Certificate

안전인증번호: HU101013-18001A

(Certificate No.)

제조업자/수입업자명: GUANGZHOU HUADU GUANG ER ZHONG ELECTRONIC
(Manufacturer/importer) FACTROY

주 소: 72 Lianglong Rd, Huashan Town, Huadu District, Guangdong,
(Address) Guangzhou, China

제 품 명: 직류전원장치
(Product)

기본모델명: GPKSW1503000WD00
(Basic Model)

파생모델명 (Series Model):

GPKSW1200500WD00

GPKSW1200600WD00

GPKSW1200800WD00

GPKSW1201200WD00

GPKSW1201500WD00

GPKSW1200550WD00

GPKSW1200750WD00

GPKSW1201000WD00

GPKSW1201250WD00

이면기재

정격/안전기준상의 모델구분: I/P: 100-240 V~, 50/60 Hz, 1.5 A O/P: 15 Vdc, 3 A, 45 W
(Rating)

시험 기준: KC 60065(2015-09)
(Standard)

본 인증서는 제조국명: 중국

제조업자명: GUANGZHOU HUADU GUANG ER ZHONG ELECTRONIC FACTROY

제조공장의 주소: 72 Lianglong Rd, Huashan Town, Huadu District, Guangdong,
Guangzhou, 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.

2018 년 11 월 20 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)



GPKSW1202000WD00
GPKSW1202300WD00
GPKSW1202700WD00
GPKSW1203000WD00
GPKSW1300600WD00
GPKSW1301000WD00
GPKSW1301500WD00
GPKSW1302200WD00
GPKSW1302700WD00
GPKSW1350500WD00
GPKSW1351000WD00
GPKSW1351500WD00
GPKSW1352000WD00
GPKSW1352500WD00
GPKSW1400500WD00
GPKSW1400800WD00
GPKSW1401200WD00
GPKSW1402000WD00
GPKSW1402500WD00
GPKSW1403000WD00
GPKSW1500550WD00
GPKSW1500750WD00
GPKSW1501000WD00
GPKSW1501250WD00
GPKSW1502000WD00
GPKSW1502300WD00
GPKSW1502700WD00
GPKSW1502900WD00
GPKSW1600800WD00
GPKSW1601500WD00
GPKSW1602500WD00
GPKSW1701000WD00
GPKSW1702300WD00
GPKSW1702500WD00
GPKSW1800550WD00
GPKSW1800750WD00
GPKSW1801000WD00
GPKSW1801250WD00
GPKSW1801600WD00
GPKSW1801800WD00
GPKSW1802000WD00
GPKSW1802450WD00
GPKSW1900700WD00
GPKSW1901250WD00
GPKSW1902000WD00

GPKSW1202100WD00
GPKSW1202500WD00
GPKSW1202900WD00
GPKSW1300500WD00
GPKSW1300800WD00
GPKSW1301200WD00
GPKSW1302000WD00
GPKSW1302500WD00
GPKSW1303000WD00
GPKSW1350700WD00
GPKSW1351200WD00
GPKSW1351750WD00
GPKSW1352300WD00
GPKSW1353000WD00
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GPKSW1500500WD00
GPKSW1500600WD00
GPKSW1500800WD00
GPKSW1501200WD00
GPKSW1501500WD00
GPKSW1502200WD00
GPKSW1502500WD00
GPKSW1502800WD00
GPKSW1600500WD00
GPKSW1601000WD00
GPKSW1602200WD00
GPKSW1700500WD00
GPKSW1701500WD00
GPKSW1702400WD00
GPKSW1800500WD00
GPKSW1800600WD00
GPKSW1800800WD00
GPKSW1801200WD00
GPKSW1801500WD00
GPKSW1801700WD00
GPKSW1801900WD00
GPKSW1802200WD00
GPKSW1900500WD00
GPKSW1901000WD00
GPKSW1901500WD00
GPKSW1902100WD00

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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)	Adaptor which designed to supply audio or video apparatus and similar electronic apparatus.
내부구조 (Internal construction)	Consisting of the primary and reinforced or double insulated SELV circuits.
외부구조 (External construction)	Direct plug-in type and providing with plastic enclosure to be min. V-1.
기타 (Others)	Class II, CB Test Certificate is issued by UL Demko(DK-75524-UL)

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)	GPKSW1503000WD00 I/P: 100-240 V~, 50/60 Hz, 1.5 A O/P: 15 Vdc, 3 A, 45 W	
파생모델 (Series model)	GPKSW1200500WD00	Output voltage: 12 Vdc, Output current: 0.50 A, Output power : 6.00 W
	GPKSW1200550WD00	Output voltage: 12 Vdc, Output current: 0.55 A, Output power : 6.60 W
	GPKSW1200600WD00	Output voltage: 12 Vdc, Output current: 0.60 A, Output power : 7.20 W
	GPKSW1200750WD00	Output voltage: 12 Vdc, Output current: 0.75 A, Output power : 9.00 W

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GPKSW1200800WD00	Output voltage: 12 Vdc Output current: 0.80 A Output power: 9.60 W
GPKSW1201000WD00	Output voltage: 12 Vdc Output current: 1.00 A Output power: 12.00 W
GPKSW1201200WD00	Output voltage: 12 Vdc Output current: 1.20 A Output power: 14.40 W
GPKSW1201250WD00	Output voltage: 12 Vdc Output current: 1.25 A Output power: 15.00 W
GPKSW1201500WD00	Output voltage: 12 Vdc Output current: 1.50 A Output power: 18.00 W
GPKSW1202000WD00	Output voltage: 12 Vdc Output current: 2.00 A Output power: 24.00 W
GPKSW1300500WD00	Output voltage: 13 Vdc Output current: 0.50 A Output power: 6.50 W
GPKSW1300600WD00	Output voltage: 13 Vdc Output current: 0.60 A Output power: 7.80 W
GPKSW1300800WD00	Output voltage: 13 Vdc Output current: 0.80 A Output power: 10.40 W
GPKSW1301000WD00	Output voltage: 13 Vdc Output current: 1.00 A Output power: 13.00 W
GPKSW1301200WD00	Output voltage: 13 Vdc Output current: 1.20 A Output power: 15.60 W
GPKSW1301500WD00	Output voltage: 13 Vdc Output current: 1.50 A Output power: 19.50 W
GPKSW1302000WD00	Output voltage: 13 Vdc Output current: 2.00 A Output power: 26.00 W



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GPKSW1400500WD00	Output voltage: 14 Vdc Output current: 0.50 A Output power: 7.00 W
GPKSW1400600WD00	Output voltage: 14 Vdc Output current: 0.60 A Output power: 8.40 W
GPKSW1400800WD00	Output voltage: 14 Vdc Output current: 0.80 A Output power: 11.20 W
GPKSW1401000WD00	Output voltage: 14 Vdc Output current: 1.00 A Output power: 14.00 W
GPKSW1401200WD00	Output voltage: 14 Vdc Output current: 1.20 A Output power: 16.80 W
GPKSW1401500WD00	Output voltage: 14 Vdc Output current: 1.50 A Output power: 21.00 W
GPKSW1402000WD00	Output voltage: 14 Vdc Output current: 2.00 A Output power: 28.00 W
GPKSW1500500WD00	Output voltage: 15 Vdc Output current: 0.50 A Output power: 7.50 W
GPKSW1500550WD00	Output voltage: 15 Vdc Output current: 0.55 A Output power: 8.25 W
GPKSW1500600WD00	Output voltage: 15 Vdc Output current: 0.60 A Output power: 9.00 W
GPKSW1500750WD00	Output voltage: 15 Vdc Output current: 0.75 A Output power: 11.25 W
GPKSW1500800WD00	Output voltage: 15 Vdc Output current: 0.80 A Output power: 12.00 W
GPKSW1501000WD00	Output voltage: 15 Vdc Output current: 1.00 A Output power: 15.00 W



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GPKSW1501200WD00	Output voltage: 15 Vdc Output current: 1.20 A Output power: 18.00 W
GPKSW1501250WD00	Output voltage: 15 Vdc Output current: 1.25 A Output power: 18.75 W
GPKSW1501500WD00	Output voltage: 15 Vdc Output current: 1.50 A Output power: 22.50 W
GPKSW1502000WD00	Output voltage: 15 Vdc Output current: 2.00 A Output power: 30.00 W
GPKSW1600500WD00	Output voltage: 16 Vdc Output current: 0.50 A Output power: 8.00 W
GPKSW1600800WD00	Output voltage: 16 Vdc Output current: 0.80 A Output power: 12.80 W
GPKSW1601000WD00	Output voltage: 16 Vdc Output current: 1.00 A Output power: 16.00 W
GPKSW1601500WD00	Output voltage: 16 Vdc Output current: 1.50 A Output power: 24.00 W
GPKSW1700500WD00	Output voltage: 17 Vdc Output current: 0.50 A Output power: 8.50 W
GPKSW1701000WD00	Output voltage: 17 Vdc Output current: 1.00 A Output power: 17.00 W
GPKSW1701500WD00	Output voltage: 17 Vdc Output current: 1.50 A Output power: 25.50 W
GPKSW1800500WD00	Output voltage: 18 Vdc Output current: 0.50 A Output power: 9.00 W
GPKSW1800550WD00	Output voltage: 18 Vdc Output current: 0.55 A Output power: 9.90 W



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GPKSW1800600WD00	Output voltage: 18 Vdc Output current: 0.60 A Output power: 10.80 W
GPKSW1800750WD00	Output voltage: 18 Vdc Output current: 0.75 A Output power: 13.50 W
GPKSW1800800WD00	Output voltage: 18 Vdc Output current: 0.80 A Output power: 14.40 W
GPKSW1801000WD00	Output voltage: 18 Vdc Output current: 1.00 A Output power: 18.00 W
GPKSW1801200WD00	Output voltage: 18 Vdc Output current: 1.20 A Output power: 21.60 W
GPKSW1801250WD00	Output voltage: 18 Vdc Output current: 1.25 A Output power: 22.50 W
GPKSW1801500WD00	Output voltage: 18 Vdc Output current: 1.50 A Output power: 27.00 W
GPKSW1202100WD00	Output voltage: 12 Vdc, Output current: 2.10 A, Output power : 25.20 W
GPKSW1202300WD00	Output voltage: 12 Vdc, Output current: 2.30 A, Output power : 27.60 W
GPKSW1202500WD00	Output voltage: 12 Vdc, Output current: 2.50 A, Output power : 30.00 W
GPKSW1202700WD00	Output voltage: 12 Vdc, Output current: 2.70 A, Output power : 32.40 W
GPKSW1202900WD00	Output voltage: 12 Vdc, Output current: 2.90 A, Output power : 34.80 W
GPKSW1203000WD00	Output voltage: 12 Vdc, Output current: 3.00 A, Output power : 36.00 W



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GPKSW1302200WD00	Output voltage: 13 Vdc, Output current: 2.20 A, Output power : 28.60 W
GPKSW1302500WD00	Output voltage: 13 Vdc, Output current: 2.50 A, Output power : 32.50 W
GPKSW1302700WD00	Output voltage: 13 Vdc, Output current: 2.70 A, Output power : 35.10 W
GPKSW1303000WD00	Output voltage: 13 Vdc, Output current: 3.00 A, Output power : 39.00 W
GPKSW1350500WD00	Output voltage: 13.5 Vdc, Output current: 0.5 A, Output power : 6.75 W
GPKSW1350700WD00	Output voltage: 13.5 Vdc, Output current: 0.7 A, Output power : 9.45 W
GPKSW1351000WD00	Output voltage: 13.5 Vdc, Output current: 1 A, Output power : 13.50 W
GPKSW1351200WD00	Output voltage: 13.5 Vdc, Output current: 1.2 A, Output power : 16.2 W
GPKSW1351500WD00	Output voltage: 13.5 Vdc, Output current: 1.5 A, Output power : 20.25 W
GPKSW1351750WD00	Output voltage: 13.5 Vdc, Output current: 1.75 A, Output power : 23.625 W
GPKSW1352000WD00	Output voltage: 13.5 Vdc, Output current: 2 A, Output power : 27.00 W
GPKSW1352300WD00	Output voltage: 13.5 Vdc, Output current: 2.3 A, Output power : 31.05 W
GPKSW1352500WD00	Output voltage: 13.5 Vdc, Output current: 2.5 A, Output power : 33.75 W

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GPKSW1353000WD00	Output voltage: 13.5 Vdc, Output current: 3 A, Output power : 40.50 W
GPKSW1402300WD00	Output voltage: 14 Vdc, Output current: 2.30 A, Output power : 32.20 W
GPKSW1402500WD00	Output voltage: 14 Vdc, Output current: 2.50 A, Output power : 35.00 W
GPKSW1402700WD00	Output voltage: 14 Vdc, Output current: 2.70 A, Output power : 37.80 W
GPKSW1403000WD00	Output voltage: 14 Vdc, Output current: 3.00 A, Output power : 42.00 W
GPKSW1502200WD00	Output voltage: 15 Vdc, Output current: 2.20 A, Output power : 33.00 W
GPKSW1502300WD00	Output voltage: 15 Vdc, Output current: 2.30 A, Output power : 34.50 W
GPKSW1502500WD00	Output voltage: 15 Vdc, Output current: 2.50 A, Output power : 37.50 W
GPKSW1502700WD00	Output voltage: 15 Vdc, Output current: 2.70 A, Output power : 40.50 W
GPKSW1502800WD00	Output voltage: 15 Vdc, Output current: 2.80 A, Output power : 42.00 W
GPKSW1502900WD00	Output voltage: 15 Vdc, Output current: 2.90 A, Output power : 43.50 W
GPKSW1602200WD00	Output voltage: 16 Vdc, Output current: 2.20 A, Output power : 35.2 W
GPKSW1602500WD00	Output voltage: 16 Vdc, Output current: 2.50 A, Output power : 40.0 W

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GPKSW1702300WD00	Output voltage: 17 Vdc, Output current: 2.30 A, Output power : 39.10 W
GPKSW1702400WD00	Output voltage: 17 Vdc, Output current: 2.40 A, Output power : 40.80 W
GPKSW1702500WD00	Output voltage: 17 Vdc, Output current: 2.50 A, Output power : 42.50 W
GPKSW1801600WD00	Output voltage: 18 Vdc, Output current: 1.60 A, Output power : 28.80 W
GPKSW1801700WD00	Output voltage: 18 Vdc, Output current: 1.70 A, Output power : 30.60 W
GPKSW1801800WD00	Output voltage: 18 Vdc, Output current: 1.80 A, Output power : 32.40 W
GPKSW1801900WD00	Output voltage: 18 Vdc, Output current: 1.90 A, Output power : 34.20 W
GPKSW1802000WD00	Output voltage: 18 Vdc, Output current: 2.00 A, Output power : 36.00 W
GPKSW1802200WD00	Output voltage: 18 Vdc, Output current: 2.20 A, Output power : 39.60 W
GPKSW1802450WD00	Output voltage: 18 Vdc, Output current: 2.45 A, Output power : 44.10 W
GPKSW1900500WD00	Output voltage: 19 Vdc, Output current: 0.5 A, Output power : 9.50 W
GPKSW1900700WD00	Output voltage: 19 Vdc, Output current: 0.7 A, Output power : 13.30 W
GPKSW1901000WD00	Output voltage: 19 Vdc, Output current: 1 A, Output power : 19.00 W



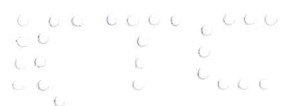
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	GPKSW1901250WD00	Output voltage: 19 Vdc, Output current: 1.25 A, Output power : 23.75 W
	GPKSW1901500WD00	Output voltage: 19 Vdc, Output current: 1.5 A, Output power : 28.50 W
	GPKSW1902000WD00	Output voltage: 19 Vdc, Output current: 2 A, Output power : 38.00 W
	GPKSW1902100WD00	Output voltage: 19 Vdc, Output current: 2.1 A, Output power : 39.90 W



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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/ Plug holder	SABIC INNOVATIVE PLASTICS US L L C	940(f1)	V-0, 120 °C Min. thickness : 2.0 mm min.	UL
Insulation sheet used between plug holder and PCB	SABIC INNOVATIVE PLASTICS US L L C	FR700(GG)	V-0, 130 °C Min. thickness : 0.4 mm min.	UL
Insulation sheet used between plug holder and PCB (Alt.)	NILIT (SUZHOU) ENGINEERING PLASTIC TECHNOLOGIES CO LTD	A 63 R V0 (a)(b)(f2)	V-0, 105 °C Min. thickness : 0.4 mm min.	UL
Input wire	TIANJIN LANGBO ELECTRONICS CO LTD	1007	Min. 22 AWG, Min. 80 °C, min. 300 VAC, VW-1	UL
Input wire (Alt.)	DONGGUAN WENCHANG ELECTRONIC CO LTD	1007	Min. 22 AWG, Min. 80 °C, min. 300 VAC, VW-1	UL
Input wire (Alt.)	SHENZHEN DONG JU WIRE & CABLE CO LTD	1007	Min. 22 AWG, Min. 80 °C, min. 300 VAC, VW-1	UL
Input wire (Alt.)	XINYA ELECTRONIC CO LTD	1007	Min. 22 AWG, Min. 80 °C, min. 300 VAC, VW-1	UL
Input wire (Alt.)	Interchangeable	Interchangeable	Min. 22 AWG, Min. 80 °C, min. 300 VAC, VW-1	UL
PCB	SHANDONG JINBAO TECH-INNOV CORPORATION	ZD-90F	V-0, 130 °C	UL
PCB (Alt.)	GUANGZHOU HUADU CREATION ELECTRONIC COMPONENTS CO LTD	CX-0802W	V-0, 130 °C	UL
PCB (Alt.)	Interchangeable	Interchangeable	V-0, 130 °C	UL
Current fuse (F1)	Dongguan Chevron Electronic Technology Co., Ltd.	3GT	T3.15A, 250 Vac, sub-miniature fuse-link	IEC

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부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Current fuse (F1) (Alt.)	XC Electronics (Shen Zhen) Corp. Ltd	3T	T3.15A, 250 Vac, sub-miniature fuse-link	IEC
Current fuse (F1) (Alt.)	Dongguan Better Electronics Technology Co., Ltd.	334-series	T3.15A, 250 Vac, sub-miniature fuse-link	IEC
Current fuse (F1) (Alt.)	Shenzhen Lanson Electronics Co. Ltd.	3KT3.15A250V	T3.15A, 250 Vac, sub-miniature fuse-link	IEC
Current fuse (F1) (Alt.)	Walter Electronic Co., Ltd.	ICP series	T3.15A, 250 Vac, sub-miniature fuse-link	IEC
Heat shrinkable tube (for current fuse)	SHENZHEN WOER HEAT-SHRINKAKAI MATERIAL CO LTD	RSFR or RSFR-H	600 V, 125 °C, VW-1	UL
Heat shrinkable tube (for current fuse) (Alt.)	DONGGIAN QUANTAI INDUSTRIAL CO LTD	T-2	600 V, 125 °C, VW-1	UL
Heat shrinkable tube (for current fuse) (Alt.)	Interchangeable	Interchangeable	600 V, 125 °C, VW-1	UL
Varistor (MOV1) (Opt.)	Cerglass MFG Inc.	10D471K	Min. AC 300 V, Min. 85 °C, V-0 coating	IEC
Varistor (MOV1) (Opt.) (Alt.)	Huizhou Lien Shun Electronic Co., Ltd.	10D471K	Min. AC 300 V, Min. 85 °C, V-0 coating	IEC
Varistor (MOV1) (Opt.) (Alt.)	Thinking Electronic Industrial Co., Ltd.	TVR10471	Min. AC 300 V, Min. 85 °C, V-0 coating	IEC
Varistor (MOV1) (Opt.) (Alt.)	Joyin Co., Ltd.	10S471K	Min. AC 300 V, Min. 85 °C, V-0 coating	IEC
Bridge Diodes (BD1)	Interchangeable	Interchangeable	Min. 3 A, Min, 600 V	-
Inductor (LF1)	GUANGZHOU HUA DU GUANG ER ZHONG ELECTRONIC FACTORY	Φ9*5*3L-0051	N1=N2=Φ0.7 mm x 7 Ts, min. 200 uH, 130 °C	-
X-Capacitor (CX1)	Shenzhen Weidy Industrial Development Co., Ltd.	MKP	Max. 0.22 uF, Min. 250 Vac, X2 type. 40/110/21/C	IEC
X-Capacitor (CX1) (Alt.)	Tenta Electric Industrial Co., Ltd.	MEX	Max. 0.22 uF, Min. 275 Vac, X2 type. 40/100/21/B	IEC

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(Certificate No)

접수번호: 20180917 - 0020
(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) (Alt.)	STRONG Components Co., LTD	MPX	Max. 0.22 uF, Min. 275 Vac, X2 type. 40/110/56/B	IEC
X-Capacitor (CX1) (Alt.)	Shenzhen Weidy Industrial Development Co., Ltd.	MKP	Max. 0.22 uF, Min. 250 Vac, X2 type. 40/100/21/C	IEC
X-Capacitor (CX1) (Alt.)	Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd.	MPX	Max. 0.22 uF, Min. 250 Vac, X2 type. 40/110/56/B	IEC
X-Capacitor (CX1) (Alt.)	Guangdong JURCC Electronics Co., Ltd.	MPX/MKP	Max. 0.22 uF, Min. 250 Vac, X2 type. 40/110/56/B	IEC
Line filter (LF2)	GUANGZHOU HUA DU GUANG ER ZHONG ELECTRONIC FACTORY	GEZ-UU10.5 -03	N1=N2=Φ0.32 mm x 105 Ts, min. 40 mH, 130 °C	-
Storage capacitor (EC1)	Interchangeable	Interchangeable	47-100 μF , min. 400 V, min 105 °C	-
Bleeder Resistor (R1, R2, R3, R4)	Interchangeable	Interchangeable	Max. 3 MΩ, min. 1/4 W	-
Current Sense Resistor (R13, R14, R15, R16, R17)	Interchangeable	Interchangeable	Min. 0.5 Ω, min. 1/4 W	-
Mosfet (Q1)	Interchangeable	Interchangeable	Min. 600 V, Min. 4 A	-
Optocoupler (U2)	COSMO Electronics Corporation	KP1010	AC 250 V, dti ≥ 0.4 mm, Ext. dcr ≥ 8.0 mm, Ext. dcl ≥ 8.0 mm, 115 °C. Max. transient isolation voltage: 6800 V	IEC
Optocoupler (U2) (Alt.)	Lite-On Technology Corporation	LTV-817	AC 250 V, dti ≥ 0.4 mm, Ext. dcr ≥ 8.0 mm, Ext. dcl ≥ 8.0 mm, 115 °C. Max. transient isolation voltage: 6800 V	IEC
Optocoupler (U2) (Alt.)	Everlight Electronics Co., Ltd.	EL817	AC 250 V, dti ≥ 0.4 mm, Ext. dcr ≥ 8.0 mm, Ext. dcl ≥ 8.0 mm, 110 °C. Max. transient isolation voltage: 6000 V	IEC
Optocoupler (U2) (Alt.)	Bright Led Electronics Corp.	BPC-817	AC 250 V, dti ≥ 0.4 mm, Ext. dcr ≥ 8.0 mm, Ext. dcl ≥ 7.6 mm, 110 °C. Max. transient isolation voltage: 5000 V	IEC

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Y-Capacitor (CY1) (Opt.)	Shantou High-New Technology Dev. Zone Songtian Enerprise Co., Ltd.	CD-Series	AC 400 V, Y1, Max. 3300 pF, 25/125/21/C	IEC
Y-Capacitor (CY1) (Opt.) (Alt.)	Guangdong South Hongming Electronic Science and Technology Co., Ltd.	F	AC 250 V, Y1, Max. 3300 pF, 25/125/21/C	IEC
Y-Capacitor (CY1) (Opt.) (Alt.)	Dongguan Easy-gather Electronic Co., Ltd.	DCF	AC 400 V, Y1, Max. 3300 pF, 25/125/21/C	IEC
Y-Capacitor (CY1) (Opt.) (Alt.)	Success Electronics Co., Ltd.	SE	AC 250 V, Y1, Max. 3300 pF, 30/125/56/C	IEC
Y-Capacitor (CY1) (Opt.) (Alt.)	Hsuan Tai Electronic Co., ltd.	CY	AC 250 V, Y1, Max. 3300 pF, 40/125/21/C	IEC
Y-Capacitor (CY1) (Opt.) (Alt.)	Dongguan City Jiankun Electronics Technology Co. Ltd	JT Series	AC 250 V, Y1, Max. 3300 pF, 40/125/21/B	IEC
Y-Capacitor (CY1) (Opt.) (Alt.)	Dongguan City Dafu Electronics Co. Ltd.	CT7 Y1 Series	AC 250 V, Y1, Max. 3300 pF, 40/125/21/C	IEC
Insulation tape (For hear sinks)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT*(c)(g)	130 ℃	UL
Insulation tape (For hear sinks) (Alt.)	SYMBIO INC	MY9XHF (f)	130 ℃	UL
Output cord	TIANJIN LANGBO ELECTRONICS CO LTD	2468	AWG 22-18, Min. 80 ℃, min. 40 VAC, VW-1	UL
Output cord (Alt.)	DONGGUAN WENCHANG ELECTRONIC CO LTD	2464/2468	AWG 22-18, Min. 80 ℃, min. 40 VAC, VW-1	UL
Output cord (Alt.)	Interchangeable	Interchangeable	AWG 22-18, Min. 80 ℃, min. 40 VAC, VW-1	UL
Transformer (DS2)	GUANG ZHOU HUA DU GUANG ER ZHONG ELECTRONIC FACTORY	GEZ-45W-19V	Class B	-

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-Bobbin (For DS2, LF2)	SUMITOMO BAKELITE CO LTD	PM-9820	Phenolic, V-0, 150 °C, min. 0.4 mm thickness	UL
-Magnet wire (For DS2, LF2)	ZHUHAI RONSEN SUPER MICRO-WIRE CO LTD	UEW/130	130 °C	UL
-Magnet wire (For DS2, LF2) (Alt.)	TAI-I ELECTRIC WIRE & CABLE CO LTD	UEW	130 °C	UL
-Magnet wire (For DS2, LF2) (Alt.)	JUNG SHING WIRE CO LTD	UEW-2	130 °C	UL
-Magnet wire (For DS2, LF2) (Alt.)	SHENZHEN CHENGWEI INDUSTRY CO LTD	(x)UEW-B- (&)-(*)	130 °C	UL
-Magnet wire (For DS2, LF2) (Alt.)	Interchangeable	Interchangeable	130 °C	UL
-Insulation tape (For DS2)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT*(c)(g)	130 °C	UL
-Insulation tape (For DS2)	SYMBIO INC	MY9XHF (f)	130 °C	UL
-Triple insulation wire (For LF1, DS2)	Rubadue Wire Co., Inc.	TCA X Series(s)	Reinforced insulation wire, rated 155 °C	UL
-Tube (For DS2)	GREAT HOLDING INDUSTRIAL CO LTD	TFT	300 V, 200 °C	UL
-Tube (For DS2) (Alt.)	FUREDA PLASTIC CO LTD	FRD-TT-T	300 V, 200 °C	UL
-Varnish (For DS2, LF2)	HANG CHEUNG COATINGS (HUIYANG) LTD	8562*	155 °C	UL

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3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

일자(Date)	발급현황(Status of issues)
	변경내용(Modification of Contents)
2018/11/20	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):

