

VERIFICATION STATEMENT

EN 60601-1:2006/ A1:2013+A12:2014

Part 1: General requirements for basic safety and essential performance

Report Reference No. : 161200820SHA-001 (based on CB certif. no. SE-87034)

Tested by (+ signature) : Francis Cai 

Approved by (+ signature) : Justin Yu 

Date of issue : 2017.06.06

Contents : 23 pages

Testing laboratory Name : Intertek Testing Services Shanghai

Address : Building 86, 1198 Qinzhou Road (North), 200233 Shanghai, China

Testing location : Same as above

Client Name : GlobTek, Inc.


Address : 186 Veterans Dr. Northvale, NJ 07647 USA

Standard : EN 60601-1:2006/ A1:2013+A12:2014

Test procedure : S mark

Non-standard test method : N.A.

Test item Description : Medical Power supply

Trademark : 

Model and/or type reference : GT*961200P**** and GT*96900P****and GT*41133-*****

Rating(s) : GT*961200P**** and GT*96900P****, Input:100-240V~,50-60Hz, 1.5A; Output: 12-54Vdc, max.120W or 90W
GT*41133-*****, Input: 100-240V~, 50-60Hz or 50-400Hz, 1.5A; Output: 12-48Vdc, max. 90W

Manufacture : GlobTek, Inc.

186 Veterans Dr. Northvale, NJ 07647 USA

Factory : GlobTek (Suzhou) Co., Ltd

Building 4, No. 76 JinLing East Road, Suzhou Industrial Park, Suzhou, JiangSu, 215021, China

Remarks for acceptance and review work conducted by above qualified testing laboratory

Sample Number reviewed : 1 pcs

Remark	: The product and the mentioned test reports comply with Swedish standard and national deviations, if any. The sample as shown in following page(s) is still corresponding with the one mentioned in CB test report. We concluded this statement verifies that above standards are fulfilled.
Test item description	: No tests are needed for this product.
Statement for deviations, if any.....	: National difference for Sweden has been evaluated in CB report.

Specification and key information involved in original CB certificate and test report	
Involved Ref. Certif. no.....	: SE-87034
Issued date.....	: 2017.05.18
Test item description.....	: Medical Power supply
Applicant's Name	: GlobTek, Inc.
Address	: 186 Veterans Dr. Northvale, NJ 07647 USA
Manufacturer	: GlobTek, Inc. 186 Veterans Dr. Northvale, NJ 07647 USA
Factory	: GlobTek (Suzhou) Co., Ltd Building 4, No. 76, Jin Ling East Rd., Suzhou Industrial Park, Suzhou, JiangSu 215121, China GlobTek, Inc. 186 Veterans Dr. Northvale, NJ 07647 USA
Technical data.....	: GT*961200P**** and GT*96900P****, Input:100-240V~,50-60Hz, 1.5A; Output: 12-54Vdc, max.120W or 90W GT*41133-****, Input: 100-240V~, 50-60Hz or 50-400Hz, 1.5A; Output: 12-48Vdc, max. 90W
Referred standard	: The product fulfils the requirements of IEC 60601-1: 2005 + CORR. 1 (2006) + CORR. 2 (2007) + A1:2012 (or IEC 60601-1: 2012 reprint)
Model and/or type reference	: GT*961200P**** and GT*96900P****and GT*41133-****
Involved test report	: 161200816SHA-001

GT*961200P** and GT*96900P****and GT*41133-******

The 1st “*” part can be ‘M’ or ‘-’ or ‘H’ for market identification and not related to safety.

When model = GT*41133-****

The 2nd “*” denotes the rated output wattage designation, which can be “01” to “90”, with interval of 1.

The 3rd “*” denotes the standard rated output voltage designation, which can be “16”, “24”, “35” and “48”.

The 4th “*” part is optional, which can be “-0.1” to “-12.9” with interval of 0.1 to denote voltage deviation or blank to indicate no voltage different.

The 3rd “*” and 4th “*” together denote the output voltage, with a range of 12 - 48 volts

The 5th “*”

=-T2 means desktop class II with C8 AC inlet

=-T3A means desktop class I with C6 AC inlet

=-F means Open Frame class I

=-FW means Open Frame class II

The last * denote any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes.

Tests were performed on 12Vdc/7.5A, 37.5Vdc/2.4A and 48Vdc/1.875A output power adapter model as representative, and also performed on other output models for reference. The clearance & creepage distance measurement, mechanical strength and temperature rising of open frame model shall be reevaluated in end product combined with this report.

Each standard rated output voltage designation corresponds to a transformer model. Each transformer model is identical in insulation construction including clearance and creepage except number of turns per coil.

When model = GT*961200P**** and GT*96900P****

The 2nd “*” denotes the rated output wattage designation, which can be “-01” to “-120”, with interval of 1 and “-” can be omitted.

The 3rd “*” denote the standard rated output voltage designation, which can be “12” to “54” or “12.0” to “54.0” in 0.1V increments

The 4th “*”

- =-T2 means desktop class II with C8 AC inlet
- =-T2A means desktop class II with C18 AC inlet
- =-T3 means desktop class I with C14 AC inlet
- =-T3TAB means desktop class I with C14 AC inlet and housing with a tab.
- =-T3A means desktop class I with C6 AC inlet

The last * denote any six character = 0-9 or A-Z or ()[] or – or blank for marketing purposes

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Enclosure (all parts)	SABIC INNOVATIVE PLASTICS B V	SE1X, SE1	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 105°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329
Alt. use	SABIC INNOVATIVE PLASTICS B V	SE100	PPE+PS, Min. V-1, Min. thickness: 2.0mm, 95°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329
Alt. use (For: GT*41133 series)	SABIC INNOVATIVE PLASTICS B V	C2950	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 85°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329
Alt. use (For: GT*96900P series, GT*41133 series)	SABIC INNOVATIVE PLASTICS B V	CX7211 EXCY0098	PC/ABS, Min. V-1, Min. thickness: 2.0mm, 90°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329
Alt. use	SABIC INNOVATIVE PLASTICS B V	945	PC, Min. V-1, Min. thickness: 2.0mm, 120°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329
Alt. use	SABIC INNOVATIVE PLASTICS B V	HF500R	PC, V-0, Min. thickness: 2.0mm, 125°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E45329
Alt. use	TEIJIN CHEMICALS LTD	LN-1250P LN-1250G	PC, Min. V-0, Min. thickness: 2.0mm, 115°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E50075
Alt. use (For: GT*41133 series)	CHI MEI CORPORATION	PA-765A	ABS, Min. V-0, Min. thickness: 2.0mm, 85°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E56070
Alt. use (For: GT*41133 series)	CHI MEI CORPORATION	PC-540	PC/ABS, Min. V-0, Min. thickness: 2.0mm, 70°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E56070

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Appliance inlet CN1 Class I units(C6 type)	Zhejiang LECI Electronics Co., Ltd.	DB-6	2.5A, 250Vac	IEC/EN 60320-1	VDE 40032465
Alt. use	Rich Bay Co., Ltd.	R-30790, R-307	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030381
Alt. use	Sun Fair Electric Wire & Cable (HK) Co. Ltd.	S-02	2.5A, 250Vac	IEC/EN 60320-1	VDE 40034448
Alt. use	TECX-UNIONS Technology Corporation	TU-333	2.5A, 250Vac	IEC/EN 60320-1	ENEC 00633
Alt. use	Rong Feng Industrial Co., Ltd.	RF-190	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030379
Alt. use	Inalways Corporation	0724	2.5A, 250Vac	IEC/EN 60320-1	ENEC 2010080
Alt. use	Zhe Jiang Bei Er jia	ST-A04-002	2.5A, 250Vac	IEC/EN 60320-1	VDE 40016045
Alt. use	Shenzhen Delikang Electronics Technology Co. Ltd.	CDJ-2	2.5A, 250Vac	IEC/EN 60320-1	VDE 40015580
Appliance inlet CN1 Class I units (C14 type)	Zhejiang LECI Electronics Co., Ltd.	DB-14	10A, 250Vac	IEC/EN 60320-1	VDE 40032137
Alt. use	Rich Bay Co., Ltd.	R-301SN	10A, 250Vac	IEC/EN 60320-1	VDE 40030228
Alt. use	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-03	10A, 250Vac	IEC/EN 60320-1	VDE 40034447
Alt. use	TECX-UNIONS Technology Corporation	TU-301-S, TU-301-SP	10A, 250Vac	IEC/EN 60320-1	ENEC 00647
Alt. use	Rong Feng Industrial Co., Ltd.	SS-120	10A, 250Vac	IEC/EN 60320-1	VDE 40028101
Alt. use	Inalways Corporation	0711	10A, 250Vac	IEC/EN 60320-1	ENEC 2010084
Alt. use	Zhe Jiang Bei Er jia	ST-A01-003J	10A, 250Vac	IEC/EN 60320-1	VDE 40013388

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Appliance inlet CN1 Class II units (C8 type)	Zhejiang LECI Electronics Co., Ltd.	DB-8	2.5A, 250Vac	IEC/EN 60320-1	VDE 40032028
Alt. use	Rich Bay Co., Ltd.	R-201 SN90	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030384
Alt. use	Sun Fair Electric Wire & Cable (HK)Co. Ltd.	S-01	2.5A, 250Vac	IEC/EN 60320-1	VDE 40034449
Alt. use	TECX-UNIONS Technology Corporation	SO-222	2.5A, 250Vac	IEC/EN 60320-1	VDE 40043268
Alt. use	Rong Feng Industrial Co., Ltd.	RF-180	2.5A, 250Vac	IEC/EN 60320-1	VDE 40030168
Alt. use	Inalways Corporation	0721	2.5A, 250Vac	IEC/EN 60320-1	ENEC 2010087
Alt. use	Zhe Jiang Bei Er jia	ST-A03-005	2.5A, 250Vac	IEC/EN 60320-1	VDE 40014833
Alt. use	Shenzhen Delikang Electronics Technology Co. Ltd.	CDJ-8	2.5A, 250Vac	IEC/EN 60320-1	VDE 40025531
Appliance inlet CN1 Class II units (C18 type) (For: GT*96900P series, GT*961200P series)	Rong Feng Industrial Co.,Ltd	SS-120	10A,250V	IEC/EN 60320-1	VDE 40028101
PCB	WALEX ELECTRONIC (WUXI) CO LTD	T2, T2A, T2B T4	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E154355
Alt. use	DONGGUAN HE TONG ELECTRONICS CO LTD	CEM1 2V0 FR4	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E243157
Alt. use	CHEERFUL ELECTRONIC (HK) LTD	02 03 03A	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E199724
Alt. use	DONGGUAN DAYSUN ELECTRONIC CO LTD	DS2	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E251754

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Alt. use	SUZHOU CITY YILIHUA ELECTRONICS CO LTD	YLH-1	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E251781
Alt. use	SHANGHAI AREX PRECISION ELECTRONIC CO LTD	02V0 04V0	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E186016
Alt. use	BRITE PLUS ELECTRONICS (SUZHOU) CO LTD	DKV0-3A DGV0-3A	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E177671
Alt. use	KUOTIANG ENT LTD	C-2 C-2A	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E227299
Alt. use	SHENZHEN TONGCHUANG XIN ELECTRONICS CO LTD	TCX	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E250336
Alt. use	PACIFIC WIN INDUSTRIAL LTD	PW-02 PW-03	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E228070
Alt. use	YUANMAN PRINTED CIRCUIT CO LTD	1V0	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E74757
Alt. use	SUZHOU XINKE ELECTRONICS CO LTD	XK-2, XK-3	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E231590
Alt. use	KUNSHAN CITY HUA SHENG CIRCUIT BOARD CO LTD	HS-S	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E229877
Alt. use	JIANGSU DIFEIDA ELECTRONICS CO LTD	DFD-1	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E213009
Alt. use	HUIZHOU SHUNJIA ELECTRONICS CO LTD	SJ-B	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E320884
Alt. use	SHANGHAI H- FAST ELECTRONIC CO LTD	211001,411001	Min. 1,6 mm thickness, min. V-0, 130°C	IEC/EN 60601-1 UL 796	Tested with appliance UL E337862

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Mylar Insulating sheet beside the heatsink (Optional)	TORAY INDUSTRIES INC	Lumirror H10	VTM-2, min. 0.4 mm thickness, 105°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested within appliance UL E86511
Alt.	SKC CO LTD	SH71S	VTM-2, min. 0.4 mm thickness, 105°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested within appliance UL E74359
Alt.	FORMEX,DIV OF IL TOOL WORKS INC, FRMRLY FASTEX, DIV OF IL TOOL WORKS INC	FORMEX GK series	V-0, min. 0.4 mm thickness, 115°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested within appliance UL E121855
Alt.	SABIC INNOVATIVE PLASTICS US L L C	FR60 series FR63 series FR65 series FR7 series FR700 series	V-0, min. 0.4 mm thickness, 130°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested within appliance UL E121562
Alt.	MIANYANG LONGHUA FILM CO LTD	PP-BK-20 PP-BK-17 PP-BK-18	VTM-0, min. 0.4 mm thickness, 80°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested within appliance UL E254551
Alt.	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX PP WT-10 series	VTM-0, min. 0.4 mm thickness, 110°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E315185
Alt.	CHENGDU KANGLONGXIN PLASTICS CO LTD	KLX FRPC-1860B	VTM-0, Min. 0.4mm thickness, 80°C	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E315185
Insulating tape wrapping around the heatsink (Use insulation tape will not use Insulating tube)	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1 1350T-1	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E17385
Alt.	BONDTEC PACIFIC CO LTD	370S	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E175868
Alt.	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ CT	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E165111

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Alt.	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E246950
Alt.	CHANG SHU LIANG YI TAPE INDUSTRY CO LTD	LY-XX	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E246820
Insulating tube used on Class I AC inlet pin, cartridge fuse and heatsink (Use insulation tube will not use Insulating tape)	SHENZHEN WOER HEAT- SHRINKABLE MATERIAL CO LTD	RSFR RSFR-H RSFR-HPF	600V, 125°C	IEC/EN 60601-1 UL 224	Tested within appliance UL E203950
Alt.	QIFURUI ELECTRONICS CO	QFR-h	600V, 125°C	IEC/EN 60601-1 UL 224	Tested within appliance UL E225897
Alt.	DONGGUAN SALIPT CO LTD	SALIPT S-901-300 SALIPT S-901-600	Min. 300V, 125°C	IEC/EN 60601-1 UL 224	Tested within appliance UL E209436
Alt.	GUANGZHOU KAIHENG ENTERPRISE GROUP	K-2 (+) K-2 (CB)	Min. 300V, 125°C	IEC/EN 60601-1 UL 224	Tested within appliance UL E214175
Alt.	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-HFT	Min. 300V, 125°C	IEC/EN 60601-1 UL 224	Tested within appliance UL E180908
Fuse (FS1,FS2 or F1, F2) (FS2 or F2 is optional) (FS1, FS2 for GT*41133 series, F1, F2 for GT*96900P series, GT*961200P series)	Conquer Electronics Co., Ltd.	MST	T3.15A, 250Vac, interrupting rating 35A	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40017118 UL E82636
Alt. use	Ever Island Electric Co., Ltd. And Walter Electric	2010	T3.15A, 250Vac, interrupting rating 130A	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40018781 UL E220181

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Alt. use	Bel Fuse Ltd.	RST	T3.15A, 250Vac, interrupting rating 100A	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40011144 UL E20624
Alt. use	Cooper Bussmann LLC	SS-5	T3.15A, 250Vac, interrupting rating 35A	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40015513 UL E19180
Alt. use	Shenzhen Lanson Electronics Co. Ltd.	SMT	T3.15A, 250Vac, interrupting rating 35A	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40012592 UL E221465
Alt. use	Dongguan Better Electronics Technology Co., Ltd.	932	T3.15A, 250Vac, interrupting rating 100A	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40033369 UL E300003
Alt. use	Hollyland Company Limited	5ET	T3.15A, 250Vac, interrupting rating 63A	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40015669 UL E156471
Alt. use	Sunny East Enterprise Co. Ltd.	CFD	T3.15A, 250Vac, interrupting rating 50A	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40030246 UL E133774
Alt. use	Conquer Electronics Co., Ltd.	MET	T3.15A, 250Vac, interrupting rating 35A	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40017157 UL E82636
Alt. use	Zhongshan Lanbao Electrical Appliances Co., Ltd.	RTI-10	T3.15A, 250Vac, interrupting rating 50A	IEC 60127-1 IEC 60127-3 UL 248-1 UL 248-14	VDE 40017009 UL E213695
Y capacitor (CY1, CY2) (Optional)	TDK CORPORATION	CD	Y1, min. 250VAC, 125°C (For GT*96900P series, GT*961200P series , max. 2200pF,) (For GT*41133 series, max. 1000pF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40029780 UL E37861

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Alt. use	Success Electronics Co., Ltd.	SE	Y1, min. 250VAC, 125°C (For GT*96900P series, GT*961200P series , max. 2200pF,) (For GT*41133 series, max. 1000pF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40037211 VDE 40020002 UL E114280
Alt. use	Success Electronics Co., Ltd.	SB	Y1, min. 250VAC, 125°C (For GT*96900P series, GT*961200P series , max. 2200pF,) (For GT*41133 series, max. 1000pF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40037221 VDE 40020001 UL E114280
Alt. use	Murata Mfg. Co., Ltd.	KX	Y1, min. 250VAC, 125°C (For GT*96900P series, GT*961200P series , max. 2200pF,) (For GT*41133 series, max. 1000pF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40002831 UL E37921
Alt. use	Walsin Technology Corp.	AH	Y1, min. 250VAC, 125°C (For GT*96900P series, GT*961200P series , max. 2200pF,) (For GT*41133 series, max. 1000pF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40001804 UL E146544

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Alt. use	JYA-NAY Co., Ltd.	JN	Y1, min. 250VAC, 125°C (For GT*96900P series, GT*961200P series , max. 2200pF,) (For GT*41133 series, max. 1000pF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	TUV 69242987 UL E201384
Alt. use	Haohua Electronic Co.	CT 7	Y1, min. 250VAC, 125°C (For GT*96900P series, GT*961200P series , max. 2200pF,) (For GT*41133 series, max. 1000pF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40003902 UL E233106
Alt. use	Jyh Chung Electronic Co., Ltd.	JD	Y1, min. 250VAC, 125°C (For GT*96900P series, GT*961200P series , max. 2200pF,) (For GT*41133 series, max. 1000pF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 137027 UL E187963
Alt. use	Jerro Electronics Corp.	JX-series	Y1, min. 250VAC, 125°C (For GT*96900P series, GT*961200P series , max. 2200pF,) (For GT*41133 series, max. 1000pF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40032158 UL E333001

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Alt. use	WELSON INDUSTRIAL CO LT D	WD	Y1, min. 250VAC, 125°C (For GT*96900P series, GT*961200P series , max. 2200pF,) (For GT*41133 series, max. 1000pF)	IEC/EN 60384- 14	VDE 40016157
X capacitor (CX1) (Optional)	Cheng Tung Industrial Co., Ltd.	CTX	310VAC, 110°C, X1 or X2 (For GT*96900P series, GT*961200P series : Max. 0.22µF) (For GT*41133 series: Max. 0.47µF)	IEC 60601-1 UL 60384-14 UL 1414	Tested with appliance UL E193049
Alt. use	Tenta Electric Industrial Co. Ltd.	MEX	275VAC, 40/100/21/C, X1 (For GT*96900P series, GT*961200P series : Max. 0.22µF) (For GT*41133 series: Max. 0.47µF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 119119 UL E222911
Alt. use	Joey Electronics (Dong Guan) Co., Ltd.	MPX	275VAC, 40/105/21/B, X2 (For GT*96900P series, GT*961200P series : Max. 0.22µF) (For GT*41133 series: Max. 0.47µF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40032481 UL E216807

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Alt. use	Ultra Tech Xiphi Enterprise Co. Ltd.	HQX	275VAC, 40/100/21/C, X2 (For GT*96900P series, GT*961200P series : Max. 0.22μF) (For GT*41133 series: Max. 0.47μF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40015608 UL E183780
Alt. use	Yuon Yu Electronics Co. Ltd.	MPX	275VAC or 300VAC, 40/100/21/C, X2 (For GT*96900P series, GT*961200P series : Max. 0.22μF) (For GT*41133 series: Max. 0.47μF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40032392 UL E200119
Alt. use	Sinhua Electronics (Huzhou) Co., Ltd.	MPX	300VAC, 40/100/21/C, X1 (For GT*96900P series, GT*961200P series : Max. 0.22μF) (For GT*41133 series: Max. 0.47μF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40014686 UL E237560
Alt. use	Jiangsu Xinghua Huayu Electronics Co., Ltd.	MPX	275VAC, 40/100/21/C, X2 (For GT*96900P series, GT*961200P series : Max. 0.22μF) (For GT*41133 series: Max. 0.47μF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40022417 UL E311166

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Alt. use	Dain Electronics Co., Ltd.	MEX, MPX, NPX	275VAC, 40/100/21/C, X2 (For GT*96900P series, GT*961200P series : Max. 0.22μF) (For GT*41133 series: Max. 0.47μF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40018798 UL E147776
Alt. use	Shenzhen Jinghao Capacitor Co., Ltd.	CBB62B	250VAC or 280VAC or 305VAC, 40/110/56/B, X2 (For GT*96900P series, GT*961200P series : Max. 0.22μF) (For GT*41133 series: Max. 0.47μF)	IEC/EN 60384- 14 UL 60384-14 UL 1414	VDE 40018690 UL E252286
Alt. use	Foshan Shunde Chuang Ge Electronic Industrial Co., Ltd.	MKP-X2	275VAC, 40/105/21/B, X2 (For GT*96900P series, GT*961200P series : Max. 0.22μF) (For GT*41133 series: Max. 0.47μF)	IEC/EN 60384- 14	VDE 40008922
Alt. use	Okaya Electric Industries Co. LTD	RE-Series	275VAC, 100°C, X2 (For GT*96900P series, GT*961200P series : Max. 0.22μF) (For GT*41133 series: Max. 0.47μF)	IEC/EN 60384- 14 UL1414	VDE 40028657 UL E47474

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Alt. use	Hongzhi Enterprises Ltd.	MPX	275VAC, 100°C, X2 (For GT*96900 series, GT*961200 series: Max. 0.22µF) (For GT*41133 series: Max. 0.47µF),	IEC/EN 60384- 14 UL1414	VDE 40023936 UL E192572
Alt. use	Foshan Shunde Beijiao Hua Da Electric Industrial Co., Ltd.	HD-MKP	275VAC, 105°C, X2 or (For GT*96900 series, GT*961200 series: Max. 0.22µF) (For GT*41133 series: Max. 0.47µF)	IEC/EN 60384- 14 UL1414	VDE 40027182 UL E227157
Alt. use	VISHAY Capacitors Belgium NV	F 1772	440VAC, 40/100/56/C, X2 (For GT*96900P series, GT*961200P series : Max. 0.22µF) (For GT*41133 series: Max. 0.47µF)	IEC/EN 60384- 14	VDE 40005095
Alt. use	Winday Electronic Industrial Co., Ltd.	MPX series	275VAC, 40/100/21/C, X2 (For GT*96900P series, GT*961200P series : Max. 0.22µF) (For GT*41133 series: Max. 0.47µF)	IEC/EN 60384- 14	VDE 40018071
Line filter (LF1) (Optional)	GlobTek/ZhongT ong/HEJIA/BOA M/	LF001	130°C	IEC/EN 60601-1	Tested with appliance

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Line filter (LF2) (Optional)	GlobTek/ZhongT ong/HEJIA/BOA M/	LF002 (For model:GT*41133 series) LF026 (model:GT*96900 P series, GT*961200P series)	130°C	IEC/EN 60601-1	Tested with appliance
Line filter (L1) (Optional)	GlobTek/ZhongT ong/HEJIA/BOA M/	LF003	130°C	IEC/EN 60601-1	Tested with appliance
PFC Chock (L2) (Optional)	GlobTek/ZhongT ong/HEJIA/BOA M/	LF004(For model:GT*41133 series) , LF028 (model:GT*96900 P series, GT*961200P series)	130°C	IEC/EN 60601-1	Tested with appliance
Optocoupler (U2)	Everlight Electronics Co., Ltd.	EL817	Isolation voltage 5000Vrms	IEC 60747-5-5 UL 1577	VDE 132249 UL E214129
Alt. use	Lite-On Technology Corporation	LTV-817	Isolation voltage 5300Vrms	IEC 60747-5-5 UL 1577	VDE 40015248 UL E113898
Varistor MOV1 (Optional)	Thinking Electronic Industrial Co., Ltd.	TVR10471K, TVR14471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 005944
Alt. use	Centra Science Corp.	10D471K, 14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 4008220
Alt. use	Success Electronics Co., Ltd.	SVR10D471K SVR14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40030401
Alt. use	Walsin Technology Co., Ltd.	14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40010090

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Alt. use	Lien Shun Electronics Co., Ltd.	14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40005858
Alt. use	Ceramate Techn. Co., Ltd.	GNR10D471K GNR14D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40031745
Alt. use	Brightking (Shenzhen) Co., Ltd.	14D471K 10D471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 40027827
Alt. use	Joyin Co., Ltd.	10N471K 14N471K	Max. Continuous voltage: min 300Vac(rms), 85°C, The coating is V-0	IEC 61051-1 IEC 61051-2 IEC 61051-2-2	VDE 005937
Earthing wire for Class I model	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIE S CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	IEC/EN 60601-1	Tested with appliance UL E237831
Alt. use	ZHUANG SHAN CHUAN ELECTRICAL PRODUCTS (KUNSHAN) CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	IEC/EN 60601-1	Tested with appliance UL E333601
Alt. use	DONGGUAN CHUANTAI WIRE PRODUCTS CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	IEC/EN 60601-1	Tested with appliance UL E315628
Alt. use	YONG HAO ELECTRICAL INDUSTRY CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	IEC/EN 60601-1	Tested with appliance UL E240426
Alt. use	DONGGUAN GUNEETAL WIRE & CABLE CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	IEC/EN 60601-1	Tested with appliance UL E204204
Alt. use	SHENG YU ENTERPRISE CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	IEC/EN 60601-1	Tested with appliance UL E219726

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity ¹⁾
Alt. use	KUNSHAN XINGHONGMEN G ELECTRONIC CO LTD	1015, 1007, 1185	Min. 18AWG, Min. 300V, Min. 80°C	IEC/EN 60601-1	Tested with appliance UL E315421
Alt. use	SUZHOU YEMAO ELECTRONIC CO LTD	1015, 1007, 1185	Min.18AWG, Min. 300V, Min. 80°C	IEC/EN 60601-1	Tested with appliance UL E353532
Output cord	KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIE S CO LTD	1185 2464 2468 1015	Min. 20AWG, min. 300Vac, min. 80°C	IEC/EN 60601-1 UL 758	Tested with appliance UL E237831
Alt. use	interchangeable	---	Min. 24AWG, min. 300Vac, min. 80°C	IEC/EN 60601-1 UL 758	---
Transformer (T1)	/ GlobTek / BOAM / HAOPUWEI	See supplement for details ²⁾	Class B, with critical component listed below	IEC/EN 60601-1	Tested with appliance
- Magnet wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWN/U	MW28-C, 130°C	IEC/EN 60601-1 UL 1446	Tested with appliance UL E201757
Alt. use	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEWS/U	MW75-C, 130°C	IEC/EN 60601-1 UL 1446	Tested with appliance UL E201757
Alt. use	JUNG SHING WIRE CO LTD	UEW-4	MW75C, 130°C	IEC/EN 60601-1 UL 1446	Tested with appliance UL E174837
Alt. use	JUNG SHING WIRE CO LTD	UEY-2	MW28-C, 130°C	IEC/EN 60601-1 UL 1446	Tested with appliance UL E174837
Alt. use	JIANGSU HONGLIU MAGNET WIRE TECHNOLOGY CO LTD	2UEW/130	MW75-C, 130°C	IEC/EN 60601-1 UL 1446	Tested with appliance UL E335065
Alt. use	CHANGZHOU DAYANG WIRE & CABLE CO LTD	2UEW/130	MW75-C, 130°C	IEC/EN 60601-1 UL 1446	Tested with appliance UL E158909
Alt. use	WUXI JUFENG COMPOUND LINE CO LTD	2UEWB	MW75#, 130°C	IEC/EN 60601-1 UL 1446	Tested with appliance UL E206882

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
Alt. use	JIANGSU DARTONG M & E CO LTD	UEW	MW 75-C, 130°C	IEC/EN 60601-1 UL 1446	Tested with appliance UL E237377
Alt. use	SHANDONG SAINT ELECTRIC CO LTD	UEW/130	MW75#, 130°C	IEC/EN 60601-1 UL 1446	Tested with appliance UL E194410
Alt. use	ZHEJIANG LANGLI ELECTRIC EQUIPMENTS CO LTD	UEW	MW 79#, 130°C	IEC/EN 60601-1 UL 1446	Tested with appliance UL E222214
-Triple- insulated wire (Secondary)	Great Leoflon Industrial Co., Ltd.	TRW (B)	Class B, reinforced insulation	IEC/EN 60601-1 UL 2353 UL 60601-1	VDE 136581 UL E211989
- Alt. use	COSMOLINK CO. Ltd.	TIW-M	Class B, reinforced insulation	IEC/EN 60601-1 UL 2353 UL 60601-1	VDE 138053 UL E213764
- Alt. use	Furukawa Electric Co., Ltd. Electronics & Automotive Systems Company Global Business Development Division	TEX-E	Class B, reinforced insulation	IEC/EN 60601-1 UL 2353 UL 60601-1	VDE 006735 UL E206440
- Alt. use	TOTOKU ELECTRIC CO LTD	TIW-2	Reinforced insulation, Class B	IEC/EN 60601-1 UL 2353 UL 60601-1	VDE 40005152 UL E166483
- Alt. use	E&B TECHNOLOGY CO LTD	E&B-XXXB E&B-XXXB-1	Reinforced insulation, Class B	IEC/EN 60601-1 UL 2353 UL 60601-1	VDE 40023473 UL E315265
- Alt. use	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CB-TIW	Reinforced insulation, Class B	IEC/EN 60601-1 UL 2353 UL 60601-1	Tested with appliance UL E249037
- Alt. use	SHENZHEN JIUDING NEW MATERIAL CO LTD	DTIW-B	Reinforced insulation, Class B	IEC/EN 60601-1 UL 2353 UL 60601-1	VDE 40037495 UL E357999
-Bobbin	CHANG CHUN PLASTICS CO LTD	T375J T375HF	V-0, 150°C, thickness 0,45 mm min.	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E59481

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
- Alt. use	CHANG CHUN PLASTICS CO LTD	4130	V-0, 140°C, thickness 0,74 mm min.	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E59481
- Alt. use	SUMITOMO BAKELITE CO LTD	PM-9820	V-0, 150°C, thickness 0,45 mm min.	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E41429
- Alt. use	HITACHI CHEMICAL CO LTD	CP-J-8800	V-0, 150°C, thickness 0,45 mm min.	IEC/EN 60601-1 UL 94 UL 746 A/B/C/D	Tested with appliance UL E42956
-Insulating tape	3M COMPANY ELECTRICAL MARKETS DIV (EMD)	1350F-1 1350T-1 44	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E17385
- Alt. use	BONDTEC PACIFIC CO LTD	370S	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E175868
- Alt. use	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ CT WF	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E165111
- Alt. use	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E246950
- Alt. use	Chang Shu Liang Yi Tape Industry Co Ltd	LY-XX	Min.130°C	IEC/EN 60601-1 UL 510	Tested with appliance UL E246820
-PTFE tubing	Great Holding Industrial Co Ltd	TFT / TFS	Min. 300V, 200°C	IEC/EN 60601-1 UL 224	Tested with appliance UL E156256
-Alt. use	Shenzhen Woer Heat-Shrinkable Material Co Ltd	WF	600V, 200°C	IEC/EN 60601-1 UL 224	Tested with appliance UL E203950
-Alt. use	Changyuan Electronics (Shenzhen) Co Ltd	CB-TT-T, CB-TT- S	Min. 300V, 200°C	IEC/EN 60601-1 UL 224	Tested with appliance UL E180908

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity1)
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Supplementary information:

1) Indicates a mark which assures the agreed level of surveillance. See Licenses and Certificates of Conformity for verification.

2) The correspondence between product and transformer thereof:

Product Model	Voltage range	Transformer model
GT*41133 series	12-16V	TF013
	16.1-24V	TF014
	24.1-35V	TF015
	35.1-48V	TF012
GT*96900P series and GT*961200P series	12-13.4V	TF047
	13.5-14.9V	TF075
	15-16.9V	TF048
	17-18.9V	TF076
	19-21.3V	TF072
	21.4-23.9V	TF077
	24-27.4V	TF049
	27.5-31.4V	TF078
	31.5-36V	TF073
	36.1-41.9V	TF079
	42-48V	TF050
	48.1-54V	TF074