



Slovenski inštitut za  
kakovost in meroslovje  
Slovenian Institute of  
Quality and Metrology

## *Licence for the use of SIQ certification mark*

*Number*

SI-SIQ 063/045

*Product and type(s) / model(s)*

Desk-top, Direct plug-in, Open frame, Encapsulated Power Supply and Battery charger for Medical use  
Model: See Annex

*Trade mark*

GLOBTEK

*Applicant / Licensee*

Globtek, Inc. 186 Veterans Drive Northvale, NJ 07647, USA

*Manufacturer*

Globtek, Inc. 186 Veterans Drive Northvale, NJ 07647, USA

*Reference to the European standards*

EN 60601-1:2006 + A11:2011

*Test Report - No. and date of issue*

T223-0033/13, dated 2013-01-31

This licence is based on the licence agreement No. 063 signed on 2008-08-26. The SIQ certification mark of conformity may be applied to the product(s) as specified in this document for the duration of the SIQ licence agreement.

Only the integral publication of this licence (together with the Annex) is allowed.

*Certification mark of conformity*

SIQ hereby grants the right to use the SIQ certification mark of conformity on the products specified in the Annex to this document. The SIQ certification mark of conformity signifies the compliance of the products with requirements of cited standard(s).



Ljubljana, 2013-01-31

*Authorized signature*

Igor Likar

## ANNEX to the Licence for the use of SIQ certification mark No. SI-SIQ 063/045

### 1. Specification of the certified product

<i>product:</i>	Desk-top, Direct plug-in, Open frame, Encapsulated Power Supply and Battery charger for Medical use
<i>trade mark:</i>	GLOBTEK
<i>model:</i>	GT(M or -)91120-3007.5-2.5-AB GT(M or -)91120-3007.5-X.X-AB GT(M or -)91120-3010.5-X.X-AB GT(M or -)91120-3010.5-X.X-AB GT(M or -)91120-3014.5-X.X-AB GT(M or -)91120-3019.5-X.X-AB GT(M or -)91120-3024-X.X-AB GT(M or -)91120-3036-X.X-AB GT(M or -)91120-3048-X.X-AB GTM91128LI1CEL GTM91128LI2CEL GTM91128LI3CEL

### 2. Technical data

*Input Rating:* 100-240 V~; 50-60 Hz; 0,7-0,3 A

*Output Ratings:* See table below:

Model name	Output voltage [DC]	Output current	Output power
GT(M or -)91120-3007.5-2.5-AB	5 V	4,0 A	20 W
GT(M or -)91120-3007.5-X.X-AB	5,1-7,5 V	0-4,0 A	22,5 W
GT(M or -)91120-3010.5-X.X-AB	7,6-9 V	0-3,3 A	25 W
GT(M or -)91120-3010.5-X.X-AB	9,1-10,5 V	0-3,3 A	30 W
GT(M or -)91120-3014.5-X.X-AB	10,6-14,5 V	0-2,83 A	30 W
GT(M or -)91120-3019.5-X.X-AB	14,6-19,5 V	0-2,0 A	30 W
GT(M or -)91120-3024-X.X-AB	19,6-24 V	0-1,6 A	30 W
GT(M or -)91120-3036-X.X-AB	24,1-36 V	0-1,25 A	30 W
GT(M or -)91120-3048-X.X-AB	36,1-48 V	0-0,83 A	30 W
GTM91128LI1CEL	4,2 V	1,0 A	--
GTM91128LI2CEL	8,4 V	1,0 A	--
GTM91128LI3CEL	12,6 V	1,0 A	--

### 3. Information regarding test results and product documentation

*test reports:* T223-0033/13, dated 2013-01-31

*product documentation:* C20130252

### 4. Factory location

1) GlobTek, Inc.

186 Veterans Dr. Northvale, NJ 07647, USA

2) GlobTek (Suzhou) Co., Ltd

Building 4, No. 76, Jingling East Road, Suzhou Industrial Park, Jiangsu 215021, China

### 5. Limitation:

The risk management requirements of the standard were not addressed. Power supply unit or battery charger tested in this test report is only component level power supply unit or battery charger. Risk management shall be addressed to the end type medical equipment.

Power supply unit or battery charger has been designed for the supplying various medical devices with integrated 2 x MOOP isolation (2 x means of operator protection between mains and secondary accessible parts, between mains and functional earthing) and with integrated 1 x MOOP isolation (1 x means of operator protection between mains and protective earthing).

This Licence for the use of SIQ certification mark substitutes previously issued Licence for the use of SIQ certification mark No. SI-SIQ 063/041, dated 2012-12-21 due to typing error.

## 6. List of components

Component/ Part No.	Manufacturer/ Trademark	Type No./model No./	Technical data	Standard No./, Edition	Mark(s) & Certificates of conformity <sup>1</sup>
GTM91120-30VV-X.X-TB					
Enclosure (electrical, mechanical, fire)	+ SABIC Innovative Plastics	SE1X SE1 SE100 HF500R CX7211 EXCY0098 C2950	Rated min. 94V-1 at min. 2,0 mm thickness; RTI = 95°C  Overall dimensions: 102 by 47 by 37 mm  Top and bottom cover are ultrasonic welded.	IEC/EN 60601-1  (QMFZ2)	Accepted  UR E45329
Enclosure (electrical, mechanical, fire)  Alternative	+ Tejin Chemicals	LN-1250P LN-1250G	Rated min. 94V-1 at min. 2,0mm thickness; RTI = 125°C  Overall dimensions: 102 by 47 by 37 mm  Top and bottom cover are ultrasonic welded.	IEC/EN 60601-1  (QMFZ2)	Accepted  UR E50075
Insulation foil between PCB bottom side and enclosure	+ SKC CO LTD	SH71S	Rated VTM-2 at min 0,076 mm thickness; RTi = 105°C  OD: 91 by 40 mm; thickness 0,43 mm	IEC/EN 60601-1  (QMFZ2)	Accepted  UR E74359
PCB	+ Brite Plus Electronics (Suzhou)	DGV0-3A	OD: 90 by 39 mm; thickness 1,6 mm Rated 94V-0; 130°C	IEC/EN 60601-1  (ZPMV2)	Accepted  UR E177671
Appliance inlet CON1  Class I units	+ Zhejiang LECI Electronics	DB-6	250 Vac; 2,5A; 3 pins	IEC/EN 60320-1  (AXUT2) (AXUT8)	VDE 40032465  cURus E302229
Appliance inlet CON1  Class I units  Alternative	+ Tecx-Unions Technology Corp	TU-333	250 Vac; 2,5A; 3 pins	IEC/EN 60320-1  (AXUT2)	VDE 40005430  UR E220004
Appliance inlet CON1  Class I units  Alternative	+ Rich Bay Co Ltd	R-30790	250 Vac; 2,5A; 3 pins	IEC/EN 60320-1  (AXUT2)	VDE 40030381  UR E184638

Appliance inlet CON1 Class I units Alternative	+ Sun Fair Electric Wire & Cable (HK) Co Ltd	S-02	250 Vac; 2,5A; 3 pins	IEC/EN 60320-1 (AXUT2) (AXUT8)	VDE 40034448 cURus E226643
Appliance inlet CON1 Class I units Alternative	+ DLK Electronics Technology Co Ltd	CDJ-2	250 Vac; 2,5A; 3 pins	IEC/EN 60320-1 (AXUT2) (AXUT8)	VDE 40015580 cURus E217394
Appliance inlet CON1 Class II units	+ Zhejiang LECI Electronics	DB-8	250 Vac; 2,5A; 2 pins	IEC/EN 60320-1 (AXUT2)	VDE 40032028 UR E302229
Appliance inlet CON1 Class II units Alternative	+ Delikang Electronics Technology Co Ltd	CDJ-8	250 Vac; 2,5A; 2 pins	IEC/EN 60320-1 (AXUT2)	VDE 40025531 UR E217394
Appliance inlet CON1 Class II units Alternative	+ Rich Bay Co Ltd	R-201SN90	250 Vac; 2,5A; 2 pins	IEC/EN 60320-1 (AXUT2)	VDE 40030384 UR E184638
Appliance inlet CON1 Class II units Alternative	+ Sun Fair Electric Wire & Cable (HK) Co Ltd	S-01	250 Vac; 2,5A; 2 pins	IEC/EN 60320-1 (AXUT2)	VDE 40034449 UR E226643
Appliance inlet CON1 Class II units Alternative	+ Tecx-unions Technology Corp	SO-222 series	250 Vac; 2,5A; 2 pins	IEC/EN 60601-1 (AXUT2)	VDE 40020337 UR E220004
Thermal pad between sec. heatsink and transformer T1	+ Pioneer Material Precision Tech.	PMP-P-300	OD: 22 by 10 mm; thickness min. 0,4 mm Rated 94V-0; 150°C	IEC/EN 60601-1 (QMFZ2)	Accepted UR E153203
Functional ground wire Class I units	+ KUNSHAN NEW ZHICHENG ELECTRONICS TECHNOLOGIE S CO LTD	1015	Min.300V; 105°C; VW-1; 18AWG or better	IEC/EN 60601-1 (AVLV2)	Accepted UR E237831
Shrink tubing on functional ground wire Class I units	+ Shenzhen Woer Heat-Shrinkable Material	RSFR-H	Rated: Min. 300V; 125°C; VW-1	IEC/EN 60601-1 (YDPU2)	Accepted UR E203950
GTM91120-30VV-X.X-PB					

Enclosure cover	+ SABIC Innovative Plastics	SE1X SE1 SE100 HF500R CX7211 EXCY0098 C2950	Rated min. 94V-1 at min. 2,0 mm thickness; RTI = 95°C  Overall dimensions: 97 by 45 by 32 mm	IEC/EN 60601-1 (QMFZ2)	Accepted  UR E45329
Potting material	+Dong Guan Shi Pai  Hua Chuang Material  FTY	808A/B	Rated 94V-0; 90°C	IEC/EN 60601-1 (QMFZ2) (QMFZ8)	Accepted  cURus E304477
Potting material Alternative	+ SUZHOU POCHELY ELECTRONIC MATERIAL CO LTD	HB-5225A/B	Rated 94V-0; 90°C	IEC/EN 60601-1 (QMFZ2)	Accepted  UR E304947
PCB	+ Brite Plus Electronics (Suzhou)	DGV0-3A	OD: 90 by 39 mm; thickness 1,6 mm Rated 94V-0; 130°C	IEC/EN 60601-1 (ZPMV2)	Accepted  UR E177671
Input connection wiring	+ Kunshan Zhicheng Electronic Technology	1015 or 2468	Min300V; 105°C; VW-1; 18AWG or better	IEC/EN 60601-1 (AVLV2 or ZJCZ)	Accepted  UR E237831
GTM91120-30VV-X.X-FB					
PCB	+ Brite Plus Electronics (Suzhou)	DGV0-3A	OD: 102 by 51 mm; thickness 1,6 mm Rated 94V-0; 130°C	IEC/EN 60601-1 (ZPMV2)	Accepted  UR E177671
Input connector CON1	+ Neltron Industrial Co., Ltd.	2114S	Min 240V; Min1.5A; Flame class min. V-2;	IEC/EN 60601-1 (ECBT2)	Accepted  UR E144392
GTM91128LI1CEL; GTM91128LI2CEL; GTM91128LI3CEL					
Enclosure (electrical, mechanical, fire)	+ SABIC Innovative Plastics	SE1X SE1 SE100 HF500R CX7211 EXCY0098 C2950	Rated min. 94V-1 at min. 2,0 mm thickness; RTI = 95°C  Overall dimensions: 118 by 53 by 37 mm  Top and bottom cover are ultrasonic welded.	IEC/EN 60601-1 (QMFZ2)	Accepted  UR E45329

Enclosure (electrical, mechanical, fire) Alternative	+ Tejin Chemicals	LN-1250P LN-1250G	Rated min. 94V-1 at min. 2,0 mm thickness; RTI = 125°C  Overall dimensions: 118 by 53 by 37 mm  Top and bottom cover are ultrasonic welded.	IEC/EN 60601-1  (QMFZ2)	Accepted  UR E50075
Insulation foil between PCB bottom side and enclosure	+ SKC CO LTD	SH71S	Rated VTM-2 at min 0,076 mm thickness; RTi = 105°C  OD: 106 by 48 mm; thickness 0,43 mm	IEC/EN 60601-1  (QMFZ2)	Accepted  UR E74359
PCB	+ Brite Plus Electronics (Suzhou)	DGV0-3A	OD: 105 by 47 mm; thickness 1,6 mm Rated 94V-0; 130°C	IEC/EN 60601-1  (ZPMV2)	Accepted  UR E177671
PCB Control board	+ Suzhou Yilihua Electronics	YLH-2	OD: 27 by 21 mm; thickness 1,6 mm Rated 94V-0; 130°C	IEC/EN 60601-1  (ZPMV2)	Accepted  UR E251781
Appliance inlet CON1 Class II units	+ Zhejiang LECI Electronics	DB-8	250 Vac; 2,5A; 2 pins	IEC/EN 60320-1  (AXUT2)	VDE 40032028  UR E302229
Appliance inlet CON1 Class II units Alternative	+ Delikang Electronics Technology Co Ltd	CDJ-8	250 Vac; 2,5A; 2 pins	IEC/EN 60320-1  (AXUT2)	VDE 40025531  UR E217394
Appliance inlet CON1 Class II units Alternative	+ Rich Bay Co Ltd	R-201SN90	250 Vac; 2,5A; 2 pins	IEC/EN 60320-1  (AXUT2)	VDE 40030384  UR E184638
Appliance inlet CON1 Class II units Alternative	+ Sun Fair Electric Wire & Cable (HK) Co Ltd	S-01	250 Vac; 2,5A; 2 pins	IEC/EN 60320-1  (AXUT2)	VDE 40034449  UR E226643
Appliance inlet CON1 Class II units Alternative	+ Tecx-unions Technology Corp	SO-222 series	250 Vac; 2,5A; 2 pins	IEC/EN 60601-1  (AXUT2)	VDE 40020337  UR E220004
For all models					
Fuse F1, F2	Walter Electronic	ICP 2010	T3,15A; 250Vac 3,6×10 mm; pigtail leads	IEC/EN 60127  (JDYX2) (JDYX8)	VDE 40012824  cURus E56092

Fuse F1, F2 Alternative	+ Zhongshan Lanbao Electrical Appliances	RTI-10	T3,15A; 250Vac 3,6×10 mm; pigtail leads	IEC/EN 60127 (JDYX) (JDYX7)	VDE cULus E213695
Fuse F1, F2 Alternative	Conquer	MST	T3,15A; 250Vac 8,35 x 4,3 x 7,7 mm	IEC/EN 60127 (JDYX2) (JDYX8)	VDE cURus E82636
Fuse F1, F2 shrink tubing	+ Shenzhen Woer Heat-Shrinkable Material	RSFR-H	Rated: 600V; 125°C; VW- 1	IEC/EN 60601-1 (YDPU2)	Accepted UR E203950
Varistor MOV (Optional)	+ Thinking	TVR07471	300 Vrms; 385 Vdc diameter: 7 mm	IEC/EN 61051- 2 (VZCA2)	VDE 5944 UR E314979
Varistor MOV (Optional) Alternative	+ Thinking	TVR10471	300 Vrms; 385 Vdc diameter: 10 mm	IEC/EN 61051- 2 (VZCA2)	VDE 5944 UR E314979
Varistor MOV (Optional) Alternative	+ Thinking	TVR14471	300 Vrms; 385 Vdc diameter: 14 mm	IEC/EN 61051- 2 (VZCA2)	VDE 5944 UR E314979
Varistor MOV (Optional) Alternative	+ Joyin Co., Ltd.	JVR07N471K	300 Vrms; 385 Vdc diameter: 7 mm	IEC/EN 61051- 2 (VZCA2)	VDE 5937 UR E325508
Varistor MOV (Optional) Alternative	+ Joyin Co., Ltd.	JVR10N471K	300 Vrms; 385 Vdc diameter: 10 mm	IEC/EN 61051- 2 (VZCA2)	VDE 5937 UR E325508
Varistor MOV (Optional) Alternative	+ Joyin Co., Ltd.	JVR14N471K	300 Vrms; 385 Vdc diameter: 14 mm	IEC/EN 61051- 2 (VZCA2)	VDE 5937 UR E325508
Varistor MOV (Optional) Alternative	+ Centra	CNR-07D471K	300 Vrms; 385 Vdc diameter: 7 mm	IEC/EN 61051- 2 (VZCA2)	VDE 40008220 UR E316325
Varistor MOV (Optional) Alternative	+ Centra	CNR-10D471K	300 Vrms; 385 Vdc diameter: 10 mm	IEC/EN 61051- 2 (VZCA2)	VDE 40008220 UR E316325
Varistor MOV (Optional) Alternative	+ Centra	CNR-14D471K	300 Vrms; 385 Vdc diameter: 14 mm	IEC/EN 61051- 2 (VZCA2)	VDE 40008220 UR E316325



Varistor MOV (Optional) Alternative	+ Success Electronics	SVR07D471K	300 Vrms; 385 Vdc diameter: 7 mm	IEC/EN 61051- 2 (VZCA2)	VDE 123677 UR E330256
Varistor MOV (Optional) Alternative	+ Success Electronics	SVR10D471K	300 Vrms; 385 Vdc diameter: 10 mm	IEC/EN 61051- 2 (VZCA2)	VDE 40030401 UR E330256
Varistor MOV (Optional) Alternative	+ Success Electronics	SVR14D471K	300 Vrms; 385 Vdc diameter: 10 mm	IEC/EN 61051- 2 (VZCA2)	VDE 40030401 UR E330256
Varistor MOV (Optional) Alternative	+ Ceramate Techn. Co., Ltd.	GNR07D471K	300 Vrms; 385 Vdc diameter: 7 mm	IEC/EN 61051- 2 (VZCA2)	VDE 40031745 UR E315429
Varistor MOV (Optional) Alternative	+ Ceramate Techn. Co., Ltd.	GNR10D471K	300 Vrms; 385 Vdc diameter: 10 mm	IEC/EN 61051- 2 (VZCA2)	VDE 40031745 UR E315429
Varistor MOV (Optional) Alternative	+ Ceramate Techn. Co., Ltd.	GNR14D471K	300 Vrms; 385 Vdc diameter: 14 mm	IEC/EN 61051- 2 (VZCA2)	VDE 40031745 UR E315429
Varistor MOV (Optional) Alternative	+ Brightking (Shenzhen) Co., Ltd.	07D471K	300 Vrms; 385 Vdc diameter: 7 mm	IEC/EN 61051- 2 (VZCA2)	VDE 40027827 UR E327997
Varistor MOV (Optional) Alternative	+ Brightking (Shenzhen) Co., Ltd.	10D471K	300 Vrms; 385 Vdc diameter: 10 mm	IEC/EN 61051- 2 (VZCA2)	VDE 40027827 UR E327997
Varistor MOV (Optional) Alternative	+ Brightking (Shenzhen) Co., Ltd.	14D471K	300 Vrms; 385 Vdc diameter: 14 mm	IEC/EN 61051- 2 (VZCA2)	VDE 40027827 UR E327997
X-Capacitor CX1	+ Cheng Tung Industrial	CTX	Min. 250Vac; max. 0,47 $\mu$ F; min. X2	IEC/EN 60384-14 (FOWX2)	VDE 40022642 UR E193049
X-Capacitor CX1 Alternative	+ Dain Electronics Co Ltd	MPX	Min. 250Vac; max. 0,47 $\mu$ F; min. X2	IEC/EN 60384-14 (FOWX2) (FOWX8)	VDE 40018798 cURus E147776
X-Capacitor CX1 Alternative	+ Ultra Tech Xiphi	UTX	Min. 250Vac; max. 0,47 $\mu$ F; min. X2	IEC/EN 60384-14 (FOWX2)	VDE 40023119 UR E183780

Y-Capacitor CY1	+ Murata Mfg Co Ltd	KX Series	Min. 250Vac; max. 620pF; min. Y1	IEC/EN 60384-14 (FOWX2)	VDE 40002796  UR E37921
Y-Capacitor CY1  Alternative	+ SUCCESS	SE, SB	Min. 250Vac; max. 620pF; min. Y1	IEC/EN 60384-14 (FOWX2) (FOWX8)	VDE 121379 VDE 118218  cURus E114280
Y-Capacitor CY1  Alternative	+ TDK	CD	Min. 250Vac; max. 620pF; min. Y1	IEC/EN 60384-14 (FOWX2)	VDE124321  UR E37861
Y-Capacitor CY1  Alternative	+ WALSIN TECHNOLOGY CORP	AH	Min. 250Vac; max. 620pF; min. Y1	IEC/EN 60384-14 (FOWX2) (FOWX8)	VDE 40001804  cURus E146544
Y-Capacitor CY1  Alternative	+ JYA-NAY CO LTD	JN	Min. 250Vac; max. 620pF; min. Y1	IEC/EN 60384-14 (FOWX2) (FOWX8)	VDE 40001831  cURus E201384
Inductor LF1	Suzhou Hejia Electronics / GlobTek	GTM91120-LF1	Open type construction OD: 15,5 by 16,0 by 12,0 mm  Rated: Min.17mH  Core: Ferrite  Coil: copper magnet wire wound on bobbin  Bobbin: Rated V-0  Temperature Class: B	IEC/EN 60601-1	Accepted
Diode D1, D2, D3, D4	+ Micro Commercial Components	FR207	Rated: min 2A; min 1000V	IEC/EN 60601-1	Accepted
Insulation tape on sec. heatsink HS2	+ Jingjiang Yahua Pressure- sensitive Adhesive	PZ, CT	Polyester tape 130°C 0,05 mm thickness; 3 layers used	IEC/EN 60601-1 (OANZ2)	Accepted  UR E165111
Transistor Q1	+ Unisonic Technologies	7N60	Rated: min 7A; min 600V  Mounted on the prim. heatsink HS1 by screw.	IEC/EN 60601-1	Accepted
Electrolytic capacitor C2	+ Nippon Chemi- Con	KMM	Rated: min.68µF; min.400V; 105°C	IEC/EN 60601-1	Accepted

Transformer T1 (5V-7,5V)	GlobTek	GT-3005001	Open type construction OD: 25 by 22 by 14 mm  Rating: Input: 100-240V Output: 5-7,5V  Core: Ferrite, EE2218W  Insulation is achieved by triple insulation wire on secondary winding  Temperature Class: B	IEC/EN 60601-1	Accepted
Transformer T1 (7,6V-10,5V)	GlobTek	GT-3009001	Open type construction OD: 25 by 22 by 14 mm  Rating: Input: 100-240V Output: 7,6-10,5V  Core: Ferrite, EE2218W  Insulation is achieved by triple insulation wire on secondary winding  Temperature Class: B	IEC/EN 60601-1	Accepted
Transformer T1 (10,6V- 14,5V)	GlobTek	GT-3012001	Open type construction OD: 25 by 22 by 14 mm  Rating: Input: 100-240V Output: 10,6-14,5V  Core: Ferrite, EE2218W  Insulation is achieved by triple insulation wire on secondary winding  Temperature Class: B	IEC/EN 60601-1	Accepted
Transformer T1 (14,6V- 19,5V)	GlobTek	GT-3015001	Open type construction OD: 25 by 22 by 14 mm  Rating: Input: 100-240V Output: 14,6-19,5V  Core: Ferrite, EE2218W  Insulation is achieved by triple insulation wire on secondary winding  Temperature Class: B	IEC/EN 60601-1	Accepted

Transformer T1 (19,6V-24V)	GlobTek	GT-3024001	Open type construction OD: 25 by 22 by 14 mm  Rating: Input: 100-240V Output: 19,6-24V  Core: Ferrite, EE2218W  Insulation is achieved by triple insulation wire on secondary winding  Temperature Class: B	IEC/EN 60601-1	Accepted
Transformer T1 (24,1V-48V)	GlobTek	GT-3048001	Open type construction OD: 25 by 22 by 14 mm  Rating: Input: 100-240V Output: 24,1-48V  Core: Ferrite, EE2218W  Insulation is achieved by triple insulation wire on secondary winding  Temperature Class: B	IEC/EN 60601-1	Accepted
Transformer T1  Bobbin Alternative	Chang Chun Plastics	T375J	Rated: UL94V-0 at min. 0,74 mm thickness; min. 150°C	IEC/EN 60601-1  (QMFZ2) (QMFZ8)	Accepted  cURus E59481
Transformer T1  Bobbin Alternative	Sumitomo	PM-9820	Rated: UL94V-0 at min. 0,74 mm thickness; min. 150°C	IEC/EN 60601-1  (QMFZ2) (QMFZ8)	Accepted  cURus E41429
Transformer T1  Bobbin Alternative	Hitachi Chemical	CP-J-8800	Rated: UL94V-0 at min. 0,74 mm thickness; min. 150°C	IEC/EN 60601-1  (QMFZ2) (QMFZ8)	Accepted  cURus E42956
Transformer T1  Primary wire	JIANGSU DARTONG M & E CO LTD	UEW	Enamelled Cu-wire;  Diameter 0,35 and 0,19 mm Min: 130°C	IEC/EN 60601-1  (OBMW2)	Accepted  UR E237377
Transformer T1  Secondary wire	Great leoflon industrial co ltd	TRWB	Triple insulated wire  Diameter: 0,45 mm  130°C	IEC/EN 60601- 1 Annex L  IEC/EN 60950- 1 Annex U  (OBJT2)	Accepted  VDE 136581  UR E211989

Transformer T1 Secondary wire Alternative	Cosmolink	TIW-M	Triple insulated wire Diameter: 0,45 mm 130°C	IEC/EN 60601-1 Annex L IEC/EN 60950-1 Annex U (OBT2)	Accepted VDE 138053 UR E213764
Transformer T1 Insulation tape	Jingjiang Yahua Pressure-sensitive Adhesive	PZ, CT	Polyester tape 130°C 0,025 mm and 0,05 mm thickness	IEC/EN 60601-1 (OANZ2)	Accepted UR E165111
Transformer T1 Insulation tape Alternative	Jingjiang jingyi	JY25-A	Polyester tape 130°C 0,025 mm and 0,05 mm thickness	IEC/EN 60601-1 (OANZ2)	Accepted UR E246950
Transformer T1 Tubing	Great Holding industrial	TFL	Rated: 150V; 200°C; VW-1	IEC/EN 60601-1 (YDPU2)	Accepted UR E156256
Optocoupler U2	+ Everlight Electronics Co Ltd	EL817 series	Dti >0,5mm, int. cr > 6,0mm, ext. cr > 7,7mm, Isolation 3000Vac min., 100°C min., Thermal cycling test	IEC/EN 60950-1: 2005, VDE 0884 GB4943.1-2011 (FPQU2) (FPQU8)	FIMKO, VDE, CQC cURus E214129
Optocoupler U2 Alternative	+ LITE-ON	LTV-817	Dti >0,6mm, int. cr > 5,2mm, ext. cr > 7,8mm, Isolation 3000Vac min., 100°C min., Thermal cycling test	IEC/EN 60950-1: 2005, VDE 0884 GB4943.1-2011 (FPQU2) (FPQU8)	VDE 94722 cURus E113898
Optocoupler U2 Alternative	+ TOSHIBA	TLP781F	Dti > 0,4mm, Ext cr > 8,0mm, Isolation 3000Vac min., 110°C min., Thermal cycling test	IEC/EN 60950-1 VDE0884 (FPQU2) (FPQU8)	SEMKO VDE cURus E67349
Optocoupler U2 Alternative	+ COSMO	K1010	Dti > 0,4mm, Int cr > 5,3mm, Ext cr > 8,0mm, Isolation 3000Vac min., 100°C min., Thermal cycling test	IEC/EN 60950-1: 2005, VDE 0884 GB4943.1-2011 (FPQU2) (FPQU8)	FIMKO, VDE, CQC cURus E169586
Diode D7	+Liteon	SBL3045CT	Min. 10A; min.45V Mounted on heatsink HS2	IEC/EN 60601-1	Accepted

Electrolytic capacitor C11, C12	+SAMXON	KM	Min. 2200 $\mu$ F; 10V; 16V; 35V; 63V; The cap. voltage depends on rated output voltage.	IEC/EN 60601-1	Accepted
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**Supplementary information:**

- 1) An asterisk indicates a mark which assures the agreed level of surveillance. See Licenses and Certificates of Conformity for verification.
- 2) + means, that components from other vendor and other model number, but with the same or better/higher rating and equivalent approvals are accepted.

**7. Conclusion**

The examination proved that all test requirements were met.

*Tested by:*

J. Vidmar



*Checked by:*

B. Glavič

