

UL TEST REPORT AND PROCEDURE

Standard:	UL 60950-1, 2nd Edition, 2014-10-14 (Information Technology Equipment - Safety - Part 1: General Requirements) CAN/CSA C22.2 No. 60950-1-07, 2nd Edition, 2014-10 (Information Technology Equipment - Safety - Part 1: General Requirements)
Certification Type:	Listing
CCN:	QQGQ, QQGQ7 (Power Supplies for Information Technology Equipment Including Electrical Business Equipment)
Product:	ITE Power Supply
Model:	GT-86240-WW12-W2, GT-86240-WW12, (WW is the standard output wattage, with a maximum value of "24" -W2 can be optional, when it is blank, denote to be with replaceable plug)
Rating:	I/P: 100-240 Vac, 50/60 Hz, 0.8 A O/P: see model list for detail
Applicant Name and Address:	GLOBTEK (HONG KONG) LTD UNIT 1402, BENSON TOWER 74 HUNG TO RD KWUN TONG KOWLOON HONG KONG

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

- A. Authorization - The Authorization page may include additional Factory Identification Code markings.
- B. Generic Inspection Instructions -
 - i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
 - ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
 - iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

A Power supply unit consists of one transformer and the other electronic components, mounted on the PWB rated V-1 and housed in plastic enclosure by ultrasonic welding.

Model Differences

All models are similar to each other except for output rating and model designation.

GT-86240-WW12-W2 are identical to GT-86240-WW12 except for plug holder, See Enclosure ID3-11 to 3-15 for details.

Technical Considerations

- Equipment mobility : direct plug-in
- Connection to the mains : pluggable A
- Operating condition : continuous
- Access location : operator accessible
- Over voltage category (OVC) : OVC II
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10% (manufacturer declared)
- Tested for IT power systems : No
- IT testing, phase-phase voltage (V) : N/A
- Class of equipment : Class II (double insulated)
- Considered current rating of protective device as part of the building installation (A) : 20A
- Pollution degree (PD) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : up to 3000 meters
- Altitude of test laboratory (m) : less than 2000 meters
- Mass of equipment (kg) : approximately 0.160Kg
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 50


- The means of connection to the mains supply is: Pluggable A, Direct plug in
- The product is intended for use on the following power systems: TN
- The equipment disconnect device is considered to be: Plug
- The product was investigated to the following additional standards: The unit were evaluated to the maximum acceptable moment, center of gravity, dimensions and weight of the unit in accordance with UL 1310 and CSA C22.2 No. 223. The blade dimension was evaluated to be complied with NEMA configurations in accordance with Wiring Devices-Dimensional Specifications, ANSI/NEMA WD6.
- The following accessible locations (with circuit/schematic designation) are within a limited current circuit: CY1 secondary pin
- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): Output V+ to V-
- LEDs provided in the product are considered low power devices: Yes

Additional Information

Revision: SR4106104.1015124

Model name changed to GT-86240-WW12-W2 in E341351-A93, Vol. X9.

Markings and instructions

Clause Title	Marking or Instruction Details
Power rating - Ratings	Ratings (voltage, frequency/dc, current)
Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number
Power rating - Model	Model Number
Power rating - Class II symbol	Symbol for Class II construction  (60417-2-IEC-5172)
Fuses - Rating	Rated current and voltage and type located on or adjacent to fuse or fuseholder.
Fuses - Non-operator access/soldered-in fuses	Unambiguous reference to service documentation for instructions for replacement of fuses replaceable only by service personnel

LPS	Optional provides with marked "LPS" or "Limited Power Source".
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Special Instructions to UL Representative

Inspect the transformer(s) listed in Production - Line Testing Requirement per AA1.1- (C).
When the tests are conducted at other location, inspect test record and specification sheet provided by the component manufacturer. Verify the specification sheet indicates 100% routine test specified in Production - Line Testing Requirements be conducted at the component manufacturer.

Production-Line Testing Requirements

Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.

Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
All Models	Transformer (T1)	N/A	Primary to Secondary	300 0	4242	1

Earthing Continuity Test Exemptions - This test is not required for the following models:

All models

Electric Strength Test Exemptions - This test is not required for the following models:

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Electric Strength Test Component Exemptions - The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test:

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Sample and Test Specifics for Follow-Up Tests at UL

Model	Component	Material	Test	Sample(s)	Test Specifics
N/A	--	--	--	--	--

1.5.1	TABLE: list of critical components					Pass
Object/part or Description	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID
01. Label	Interchangeable	Interchangeable	Minimum 80 degree C, suitable to surface.	PGDQ2 or PGJ12	UL	
01a. Permanency of Marking (Alternate)	--	--	Permanently ink-stamped, silk-screened, molded in, or on self-adhesive labels.	--	--	
02. Enclosure shape for GT-86240-WW12-W2	--	--	Plastic enclosure secured together by ultra-sonic welding. See supplement enclosure 4-01 for details.	--	--	
02a. Enclosure shape for GT-86240-WW12-W2	--	--	Plastic enclosure secured together by ultra-sonic welding. See supplement enclosure 4-15 for details.	--	--	
02b. Enclosure shape for GT-86240-WW12	--	--	Plastic enclosure secured together by ultra-sonic welding. See supplement enclosure 4-16 for details.	--	--	
02c. Enclosure shape for GT-86240-WW12	--	--	Plastic enclosure secured together by ultra-sonic welding. See supplement enclosure 4-17 for details.	--	--	
02-1. Plastic of Enclosure	Sabic Innovative Plastics Us L L C	SE1X	Rate V-1 minimum, 1.5mm thick minimum, 105 degree C minimum, HWI=0.	QMFZ2	UL E121562	
02-1a. Plastic of Enclosure (Alternative)	Asahi Kasei Chemicals Corp Xyron Polymer	540V	Rated minimum V-1, minimum 105 degree C. Minimum 1.5 mm thickness, HWI=1. Plastic enclosure secured together by ultra-sonic welding. See supplement enclosure 4-01 for details.	QMFZ2	UL E82268	
02-1b. Plastic of Enclosure (Alternative)	Bayer Materialscience Ag	6485	Rated minimum V-0, minimum 115 degree C. Minimum 1.5	QMFZ2	UL E41613	

			mm thickness, HWI=2. Plastic enclosure secured together by ultra-sonic welding. See supplement enclosure 4-01 for details.			
02-1c. Plastic of Enclosure (Alternative)	Sabic Innovative Plastics Japan L L C	925U	Rated minimum V-0, minimum 115 degree C. Minimum 1.5 mm thickness, HWI=3. Plastic enclosure secured together by ultra-sonic welding. See supplement enclosure 4-01 for details.	QMFZ2	UL E207780	
02-1d. Plastic of Enclosure (Alternative)	Idemitsu Kosan Co., Ltd.	AZ2201	Rated minimum V-0, minimum 125 degree C. Minimum 1.2 mm thickness, HWI=3. Plastic enclosure secured together by ultra-sonic welding. See supplement enclosure 4-01 for details.	QMFZ2	UL E48268	
02-1e. Plastic of Enclosure (Alternative)	Sabic Japan L L C	CH6410	Rated minimum V-0, minimum 100 degree C. Minimum 1.5 mm thickness, HWI=3. Plastic enclosure secured together by ultra-sonic welding. See supplement enclosure 4-01 for details.	QMFZ2	UL E207780	
02-1f. Plastic of Enclosure (Alternative)	Sabic Japan L L C	SE1X	Rated minimum V-1, minimum 105 degree C. Minimum 1.5 mm thickness, HWI=0. Plastic enclosure secured together by ultra-sonic welding. See supplement enclosure 4-01 for details.	QMFZ2	UL E207780	
03.PWB	Interchangeable	Interchangeable	V-1 or better, 130 degree C.	ZPMV2	UL	
04.Primary lead wire	Interchangeable	Interchangeable	Rated VW-1 minimum 24 AWG, minimum 300 V, minimum 80 degree C.	AVLV2	UL	

05. Fuse (F1) (Alternative between T6.3AL and T2AL)	Interchangeable	Interchangeable	T2.0A,T6.3A, 250Vac	JDYX	UL	
05a. Fuse (F1) (Alternative between T6.3AL and T2AL)	Littelfuse Wickmann Werke	392	T2.0A,T6.3A, 250Vac	JDYX2	UL E67006	
05b. Fuse (F1) (Alternative between T6.3AL and T2AL)	Conquer Electronics Co Ltd	MST	T2.0A,T6.3A, 250Vac	JDYX2	UL E82636	
05c. Fuse (F1) (Alternative between T6.3AL and T2AL)	Cooper Bussmann LLC	SS-5	T2.0A,T6.3A, 250Vac	JDYX2	UL E19180	
05d. Fuse (F1) (Alternative between T6.3AL and T2AL)	Bel Fuse Inc	RST	T2.0A,T6.3A, 250Vac	JDYX2	UL E20624	
05e. Fuse (F1) (Alternative between T6.3AL and T2AL)	Chi Lick Schurter Limited	SPT	T2.0A,T6.3A, 250Vac	JDYX2	UL E184831	
05f. Fuse (F1) (Alternative between T6.3AL and T2AL)	Conquer Electronics Co Ltd	PTU	T2.0A,T6.3A, 250Vac	JDYX2	UL E82636	
05g. Fuse (F1) (Alternative between T6.3AL and T2AL)	Littelfuse Inc	877	T2.0A,T6.3A, 250Vac	JDYX2	UL E10480	
05h. Fuse (F1) (Alternative between T6.3AL and T2AL)	Walter Electronic Co Ltd	2010	T2.0A,T6.3A, 250Vac	JDYX2	UL E56092	
05i. Fuse (F1) (Alternative between T6.3AL and T2AL)	Nippon Seisen Cable Ltd	SLT series	T2.0A,T6.3A, 250Vac	JDYX2	UL E120786	
05j. Fuse (F1) (Alternative between T6.3AL and T2AL)	Walter Electronic Co Ltd	ICP	T2.0A,T6.3A, 250Vac	JDYX2	UL E56092	
06.Fuse (F2) (Alternative) (Optional)	Littelfuse Wickmann Werke	392	T2.0A, 250Vac	JDYX2	UL E67006	
06a.Fuse (F2)	Conquer Electronics	MST	T2.0A, 250Vac	JDYX2	UL E82636	

(Alternative) (Optional)	Co Ltd					
06b.Fuse (F2) (Alternative) (Optional)	Cooper Bussmann LLC	SS-5	T2.0A, 250Vac	JDYX2	UL E19180	
06c.Fuse (F2) (Alternative) (Optional)	Bel Fuse Inc	RST	T2.0A, 250Vac	JDYX2	UL E20624	
06d.Fuse (F2) (Alternative) (Optional)	Chi Lick Schurter Limited	SPT	T2.0A, 250Vac	JDYX2	UL E184831	
06e.Fuse (F2) (Alternative) (Optional)	Conquer Electronics Co Ltd	PTU	T2.0A, 250Vac	JDYX2	UL E82636	
06f.Fuse (F2) (Alternative) (Optional)	Littelfuse Inc	877	T2.0A, 250Vac	JDYX2	UL E10480	
06g.Fuse (F2) (Alternative) (Optional)	Walter Electronic Co. Ltd	2010	T2.0A, 250Vac	JDYX2	UL E220181	
06h.Fuse (F2) (Alternative) (Optional)	Nippon Seisen Cable Ltd	SLT series	T2.0A, 250Vac	JDYX2	UL E120786	
06i.Fuse (F2) (Alternative) (Optional)	Walter Electronic Co Ltd	ICP	T2.0A, 250Vac	JDYX2	UL E56092	
07.Varistor (MOV1) (Optional)	Centra Science Corp	CNR10D431K CNR10D471K CNR14D431K CNR14D471K	Minimum 300Vac; minimum 385Vdc	VZCA2	UL E316325	
07a.Varistor (MOV1) (Optional) (Alternate)	Uppermost Electronic Industries Co Ltd	V10K300, V10K320, V10K350, V10K385, V14K300, V14K320, V14K350,	Minimum 300Vac; minimum 385Vdc	VZCA2	UL E330441	

		V14K385				
07b.Varistor (MOV1) (Optional) (Alternate)	Jya-Nay Co Ltd	10D431K, 10D471K, 14D431K, 14D471K	Minimum 300Vac; minimum 385Vdc	VZCA2	UL E333951	
07c.Varistor (MOV1) (Optional) (Alternate)	Joyin Co Ltd	JVR10N431- 471K, JVR14N431-471K	Minimum 300Vac; minimum 385Vdc	VZCA2	UL E325508	
07e.Varistor (MOV1) (Optional) (Alternate)	Panasonic Corporation, Panasonic Corporation Of North America	10K431U, 10K471U, 14K471U	Minimum 300Vac; minimum 385Vdc	VZCA2	UL E321499	
07f.Varistor (MOV1) (Optional) (Alternate)	Thinking Electronic Industrial Co Ltd	TVR10431, TVR10471, TVR14431, TVR14471	Minimum 300Vac; minimum 385Vdc	VZCA2	UL E314979	
07g.Varistor (MOV1) (Optional) (Alternate)	Feng Hua Advance Technology (Holding) Co Ltd	FNR-10K431, FNR-10K471, FNR-14K431, FNR-14k471	Minimum 300Vac; minimum 385Vdc	VZCA2	UL E325462	
07h.Varistor (MOV1) (Optional) (Alternate)	Brightking (Shenzhen) Co Ltd	10D431K, 10D471K, 14D431K, 14D471K	Minimum 300Vac; minimum 385Vdc	VZCA2	UL E327997	
07i.Varistor (MOV1) (Optional) (Alternate)	Littelfuse Inc	V300LA10P, V300LA20AP, V385LA10P, V385LA20AP, V10E300P, V10E385P, V14E300P, V14E385P	Minimum 300Vac; minimum 385Vdc	VZCA2	UL E322097	
07j.Varistor (MOV1) (Optional) (Alternate)	Guangxi New Future Information Industry Co Ltd	10D471K, 14D471K	Minimum 300Vac; minimum 385Vdc	VZCA2	UL E323753	
07.Choke(LF1)	--	--	Minimum 130 degree C.	--	--	

			Min.25mH, 275Vac See 4-04 for details.			
08. Bridge Rectifier (D1, D2, D3, D4)	--	--	Minimum 1.0A, Minimum 400V	--	--	
09.Electrolytic capacitors (C2)	--	--	Minimum 400Vac, 10-68uF,105 degree C. Type is guard against exploding.	--	--	
10. Transistor (Q1)	--	--	Minimum 1A, Minimum 400V	--	--	
11. X-Capacitor (C1) (Optional)	Carli Electronics Co Ltd	MPX	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E120045	
11a. X-Capacitor (C1) (Optional) (Alternative)	Okaya Electric Industries Co Ltd	PA	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E47474	
11b. X-Capacitor (C1) (Optional) (Alternative)	Yuon Yu Electronics Co Ltd	MPX	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E200119	
11c. X-Capacitor (C1) (Optional) (Alternative)	Dongguan Okaya Electric Co Ltd	RE	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E236227	
11e. X-Capacitor (C1) (Optional) (Alternative)	Strong Components Co Ltd	MPX	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E209251	
11f. X-Capacitor (C1) (Optional) (Alternative)	Chiefcon Electronics Co Ltd	CKX	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E209251	
11g. X-Capacitor (C1) (Optional) (Alternative)	Iskra Sistemi, D D	KNB 1530, KNB 1532, KNB 1533, KNB 1537, KNB1560	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E145156	
11h. X-Capacitor (C1) (Optional) (Alternative)	Ultra Tech Xiphi Enterprise Co Ltd	HQX	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E183780	
11i. X-Capacitor (C1) (Optional) (Alternative)	Pilkor Electronics Co Ltd	PCX2 335M, PCX2 337	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E165646	

11j. X-Capacitor (C1) (Optional) (Alternative)	Joey Electronics (Dong Guan) Co Ltd	MPX	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E216807	
11k. X-Capacitor (C1) (Optional) (Alternative)	Shenzhen Jinghao Capacitor Co., Ltd.	CBB62B	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E252286	
11l. X-Capacitor (C1) (Optional) (Alternative)	Sinhua Electronics (Huzhou) Co Ltd	MPX	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E237560	
11m. X-Capacitor (C1) (Optional) (Alternative)	Yimanfeng Science And Technology Ltd	MPX/MKP	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E315567	
11n. X-Capacitor (C1) (Optional) (Alternative)	Shenzhen Surong Capacitors Co Ltd	MPX/MKP	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E246678	
11o. X-Capacitor (C1) (Optional) (Alternative)	Hongzhi Enterprises Ltd	MPX	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E192572	
11p. X-Capacitor (C1) (Optional) (Alternative)	Wujiang Taixing Electronic Co Ltd	TNS-2TH	Maximum 0.22uF, minimum 250 V, minimum 100 degree C. Marked with X2 type.	FOWX2	UL E218032	
12. Bleeder Resistor (R1L1, R1L2)	Interchangeable	Interchangeable	3.0 M ohm, max minimum.1/4W	--	--	
13. Y - Capacitor (CY1) (optional)	Tdk-Epc Corp	CD	Rated maximum 2200 pF, minimum 250 V, 125 degree C. Marked with Y1.	FOWX2	UL E37861	
13a. Y - Capacitor (CY1) (optional) (Alternate)	Success Electronics Co., Ltd.	SE,SB	Rated maximum 2200 pF, minimum 250 V, 125 degree C. Marked with Y1.	FOWX2	UL E114280	
13b. Y - Capacitor (CY1) (optional) (Alternate)	Murata Mfg Co Ltd	KX	Rated maximum 2200 pF, minimum 250 V, 125 degree C. Marked with Y1.	FOWX2	UL E37921	
13d. Y - Capacitor (CY1) (optional) (Alternate)	Jya-Nay Co Ltd	JN	Rated maximum 2200 pF, minimum 250 V, 125 degree C. Marked with Y1.	FOWX2	UL E201384	
13e. Y - Capacitor (CY1) (optional) (Alternate)	Welson Industrial Co Ltd	WD	Rated maximum 2200 pF, minimum 250 V, 125 degree C.	FOWX2	UL E104572	

			Marked with Y1.			
13f. Y - Capacitor (CY1) (optional) (Alternate)	Samwha Capacitor Samwha Capacitor	SD	Rated maximum 2200 pF, minimum 250 V, 125 degree C. Marked with Y1.	FOWX2	UL E97754	
13g. Y - Capacitor (CY1) (optional) (Alternate)	Nanjing Yuyue Electronics Co., Ltd.	CT7	Rated maximum 2200 pF, minimum 250 V, 125 degree C. Marked with Y1.	FOWX2	UL E237728	
13h. Y - Capacitor (CY1) (optional) (Alternate)	Jyh Hsu (Jec) Electronics Ltd	JD, JY	Rated maximum 2200 pF, minimum 250 V, 125 degree C. Marked with Y1.	FOWX2	UL E356696	
13i. Y - Capacitor (CY1) (optional) (Alternate)	Yinan Don's Electronic Component Co	CT81	Rated maximum 2200 pF, minimum 250 V, 125 degree C. Marked with Y1.	FOWX2	UL E145038	
14. Optocoupler (U2)	Sharp Corp Electronic Components And Devices Div	PC817, PC123	Providing 5000 Vac isolation, minimum 100 degree C.	FPQU2	UL E64380	
14a. Optocoupler (Alternate) (U2)	Lite-On Technology Corp	LTV-817	Providing 5300 Vac isolation, minimum 115 degree C.	FPQU2/8	UL E113898	
14b. Optocoupler (Alternate) (U2)	Everlight Electronics Co Ltd	EL 817	Providing 5000 Vac isolation, minimum 110 degree C.	FPQU2/8	UL E214129	
14c. Optocoupler (Alternate) (U2)	Cosmo Electronics Corp	K1010, KP1010	Providing 5000 Vac isolation, minimum 115 degree C.	FPQU2/8	UL E169586	
14d. Optocoupler (Alternate) (U2)	Fairchild Semiconductor Corp	H11A817B	Providing 5000 Vac isolation, minimum 110 degree C.	FPQU2/8	UL E90700	
14e. Optocoupler (Alternate) (U2)	Bright Led Electronics Corp	BPC817B, BPC817C	Providing 5000 Vac isolation, minimum 100 degree C.	FPQU2/8	UL E236324	
14f. Optocoupler (Alternate) (U2)	Renesas Electronics Corporation	PS2561	Providing 5000 Vac isolation, minimum 100 degree C.	FPQU2	UL E72422	
15. Transformer (T1)			Class B See 4-05 for construction details.	--	--	4-05

15-1. Transformer (T1) insulation system			Class 130(B)	OBJY2	UL E159480	
15-2. Transformer - Bobbin	Sumitomo Bakelite Co Ltd	PM-9820, PM-9630	Phenolic, V-0, 150 degree C , Min. thickness 0.71mm	QMFZ2	UL E41429	
15-2b. Transformer – Bobbin (Alternate)	Hitachi Chemical Co Ltd	CP-J-8800	Phenolic, V-0, 150 degree C , Min. thickness 0.71mm	QMFZ2	UL E42956	
15-3. Transformer - Insulation Tape	3m company electrical markets div (EMD)	1350F-1, 1350F-2	Rated 130 degree C.	OANZ2	UL E17385	
15-3a. Transformer - Insulation Tape (Alternate)	Symbio Inc	35660, 35661, 35660Y	Rated 130 degree C.	OANZ2	UL E50292	
15-4 Transformer - Core	--	--	Ferrite, dimensions see 4-05 for details. With min. 2 layers of insulation tape wrapped around core body.	--	--	
15-5 Transformer Winding	Interchangeable	Interchangeable	MW75 or MW28 rated 130 degree C.	OBMW2	UL	
15-6b. Triple insulation wire	Young Chang Silicone Co Ltd	STW-B	Rated 130 degree C	OBJT2	UL E242198	
15-7 Transformer - Varnish	Hitachi Chemical Co Ltd	WP-2952F-2G	Rated 130 degree C.	OBOR2	UL E72979	
15-7a. Transformer – Varnish (Alternate)	Elantas Electrical Insulation Elantas Pdg Inc	468-2(x)	Rated 130 degree C.	OBOR2	UL E75225	
16.Glue	Interchangeable	Interchangeable	V-2 minimum or HF-2 minimum	QMFZ2	UL	
17.Input blade	---	--	Copper or Copper Alloy, non-polarized (NEMA 1-15P configuration). Integrally melded onto Plug Holder, perimeter of face section from which Blade projection minimum 5.5 mm from any point on either blade. See Enclosure Id. 4-03 for details.	--	--	4-03
18.Heat sink for Q1	---	--	Aluminum, secured and	--	--	4-06

(HS1)			soldered to PWB. See enclosure ID 4-06 for details.			
19.Heat sink for D10 (HS2)	---	--	secured and soldered to PWB. See enclosure ID 4-07 for details.	--	--	4-07
20. Current sense resistor (R14, R18, R19, R21)	--	--	Min. 5ohm; Min. 1/4W	--	--	
21.Output wire	Interchangeable	Interchangeable	Rated VW-1 minimum 24 AWG, minimum 300 V, minimum 80 degree C.	AVLV2	UL	
22.Glue	Interchangeable	Interchangeable	V-2 minimum or HF-2 minimum	QMFZ2	UL	
23. Insulation Sheet (between PCB and blade pin)	Interchangeable	Interchangeable	Minimum HB, 80degree C.	QMFZ2	--	4-08
07. Strain relief of output cord	Interchangeable	Interchangeable	V-1 or better, Integrally molded on Output Cable, fixed in enclosure hole. See Enclosure 4-02 for details.	QMFZ2	UL	4-02

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