File E341351 Project 4789507340

August 3, 2018

REPORT

on

Power Supplies for use with Audio/Video, Information and Communication Technology Equipment

GLOBTEK (HONG KONG) LTD

KOWLOON HONG KONG

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UL TEST REPORT AND PROCEDURE Standard: UL 62368-1, 2nd Edition, 2014-12-01 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements) CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements) Certification Type: Listing CCN: QQJQ, QQJQ7 Power Supplies for use in Audio/Video, Information and Communication Technology Equipment) Complementary Certification N/A Product: ICT/ITE POWER SUPPLY Model: GT-46400-WWVV-X.X-TZ*WW is the standard output wattage, with a maximum value of "40", VV is the standard rated output voltage designation, with a value of "12" "15" "19"and "24"; -X.X denote the output voltage differentiator, subtracting X.X volts from standard output voltage VV in 0.1V increments, the actual output voltage range is 12-24V, blank is to indicate the no voltage different. Z can be 3 or 3A, 3 means C14 inlet type, 3A means C6 inlet type The last "*" denote any six character means "0-9","A-Z","()","[]","-" or blank for marketing purposes. T/P: Rating: 100-240 Vac, 50-60 Hz or 50/60 Hz, 1.0 ASee Illustration - 12 for details. 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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UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of this page through to the end of the Engineering Conditions of Acceptability.

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Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL $\,$

Prepared by:

Amy Wong/Suki Kwong by: Brian Wong

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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
- C. Listing Mark/Recognized Component Mark Data Page 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

The equipment for Class I, The equipment intended for use with Audio/video, information and communication technology Equipment, there electronic components mounted on PWB, and housed in a thermoplastic enclosure by ultrasonic welding.

Model Differences

All models are similar to each other except ratings, Transformer T1, secondary component, and model designation, see Illustration-12 for details.

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Test Item Particulars (NOT FOR FIELD REPRESE	NTATIVE'S USE)
Classification of installation and use by .:	☐ Ordinary person ☐ Instructed person ☐ Skilled person
Supply Connection::	<pre> pluggable equipment</pre>
Equipment mobility:	stationary for building-in direct plug-in
	☐ rack-mounting ☐ wall-mounted
Over voltage category (OVC):	☐ OVC I ☐ OVC III ☐ OVC IV ☐ other:
Fundamental Frequency:	<pre></pre>
Class of equipment:	<pre> Class I □ Class II□ Class III Not classified Class II with functional earthing </pre>
Access location:	☐ restricted access location ☐ N/A
Pollution degree (PD):	☐ PD 1
IP protection class:	
Tested for IT power systems:	Yes No
IT testing, phase-phase voltage (V):	
Altitude during operation (m):	☑ Up to 2,000 ☐ Up to 3,000
Altitude of test laboratory (m): Mass of equipment (kg):	—

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Technical Consideration (NOT FOR FIELD REPRESENTATIVE'S USE)

- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40 degree C
- The means of connection to the mains supply is: Detachable power cord, Pluggable A
- The product is intended for use on the following power systems: TN
- Considered current rating of protective device as part of the building installation (A) : 20
- Mains supply tolerance (%) or absolute mains supply values : +10%, -10%
- The equipment disconnect device is considered to be: Appliance inlet
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual
- LEDs provided in the product are considered low power devices: Yes

Engineering Conditions of Acceptability (NOT FOR FIELD REPRESENTATIVE'S USE)

N/A

Additional Information

N/A

Additional Standard

The product fulfils the requirements of: N/A

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Markings, instruction	Markings, instructions and instructional safeguards							
Clause Title	Marking or Instruction Details							
Equipment identification marking - Manufacturer identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number.							
Equipment identification marking - model identification	Model Number							
Equipment rating marking -ratings	Input Ratings (voltage, frequency, current) Output Ratings (voltage, dc, current)							
Fuses - replaceable by skilled person (component ID:F1)	F1, T2A, 250V located on or adjacent to fuse or fuseholder.							

Special Instructions to UL Representative

For transformer test - 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.

		Removable			1	Test
Model	Component	Parts	Test probe location	V rms	V dc	Time, s
All models	T1	N/A	Primary to Secondary	3000	4242	1
All models	EUT	N/A	Primary to Secondary	3000	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:

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:

Sample and Test Specifics for Follow-Up Tests at UL

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

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4.1.2	TABLE: list of c	ritical compor	nents			Pass
Object/part or Description	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformit Y	Supplement ID
01. Enclosure	SABIC INNOVATIVE PLASTICS US L L C	915R(GG)	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 120 degree C min. Minimum 2.0 mm thickness. See Illustration-1 for dimensions	QMFZ2	UL	
01a. Enclosure	SABIC JAPAN L L	945 (GG)	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 120 degree C min. Minimum 2.0 mm thickness. See Illustration-1 for dimensions	QMFZ2	UL	
01b. Enclosure	LG CHEM (GUANGZHOU) ENGINEERING PLASTICS CO LTD	LUPOY EF- 1006F(m)	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 115 degree C min. Minimum 2.0 mm thickness. See Illustration-1 for dimensions	QMFZ2	UL	
01c. Enclosure	COVESTRO DEUTSCHLAND AG [PC RESINS]	FR6005 + (z)	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 105 degree C	QMFZ2	UL	

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			min. Minimum 2.0 mm thickness. See Illustration-1 for			
01d. Enclosure	SILVER AGE ENGINEERING PLASTICS (DONGGUAN) CO LTD	PC2330	dimensions Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 115 degree C min. Minimum 2.0 mm thickness. See Illustration-1 for	QMFZ2	UL	
02. Appliance Inlet (for Z=3)	TECX-UNIONS TECHNOLOGY CORP	TU-301-SP, TU-301-A, TU- 301-AP, TU- 301-S, TU- 301-AP-A and TU-301-AL	dimensions Rated 250 V, 15 A, 105 degree C min. (C14 type)	AXUT2	UL	
02a. Appliance Inlet (alternate) (for Z=3)	SUN FAIR ELECTRIC WIRE & CABLE (HK) CO	S-03	Rated 250 V, 10 A, 75 degree C min. (C14 type)	AXUT2	UL	
02b. Appliance Inlet (alternate) (for Z=3)	ZHEJIANG LECI ELECTRONICS CO LTD	DB-14, DB-14-1, DB-14-2, DB-14-3, DB-14-5, DB-14-6, DB-14-1-7, DB-14-8, DB-14-10	Rated 250 V, 15 A, 75 degree C min. (C14 type)	AXUT2	UL	
02c. Appliance Inlet (alternate) (for Z=3)	ZHE JIANG BEI ER JIA ELECTRONIC CO LTD	ST-A01-003J, ST-A01-001L, ST-A01-002L, ST-A01-003K	Rated 250 V, 10 A, 75 degree C min. (C14 type)	AXUT2	UL	
02d. Appliance Inlet (alternate) (for Z=3)	ECHO ELECTRIC CO LTD	AC-P01, AC- P03, AC-P06, AC-P07	Rated 250 V, 10 A, 75 degree C min. (C14 type)	AXUT2	UL	

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02-1. Appliance	TECX-UNIONS	TU-333	Rated 250 V, 2.5 A, 105	AXUT2	UL	
Inlet (for Z=3A)	TECHNOLOGY CORP		degree C min. (C6 type)			
02-1a. Appliance	SUN FAIR	S-02	Rated 250 V, 2.5 A, 75	AXUT2	UL	
Inlet (alternate)	ELECTRIC WIRE &		degree C min. (C6 type)			
(for Z=3A)	CABLE (HK) CO					
	LTD					
02-1b. Appliance	ZHEJIANG LECI	DB-6, DB-6-2,	Rated 250 V, 2.5 A, 75	AXUT2	UL	
Inlet (alternate)	ELECTRONICS CO	DB-6-3, DB-6-	degree C min. (C6 type)			
(for Z=3A)	LTD	4, DB-6-5,				
		DB-6-2BP27P27				
02-1c. Appliance	ZHE JIANG BEI ER		Rated 250 V, 2.5 A, 75	AXUT2	UL	
Inlet (alternate)	JIA ELECTRONIC	ST-A04-001	degree C min. (C6 type)			
(for Z=3A)	CO LTD					
03. Fuse (F1)	Various	Various	Listed, T2A, 250Vac	JDYX	UL	
03a. Fuse (F1)	CONQUER	MST	Rated T2A, 250Vac.	JDYX2	UL	
(Alternate)	ELECTRONICS CO					
	LTD					
03b. Fuse (F1)	EVER ISLAND	2010	Rated T2A, 250Vac.	JDYX2	UL	
(Alternate)	ELECTRIC CO LTD					
	& WALTER					
	ELECTRIC					
03c. Fuse (F1)	HOLLYLAND CO LTD	5ET	Rated T2A, 250Vac.	JDYX2	UL	
(Alternate)						
03d. Fuse (F1)	BEL FUSE INC	RST	Rated T2A, 250Vac.	JDYX2	UL	
(Alternate)						
03e. Fuse (F1)	COOPER BUSSMANN	SS-5	Rated T2A, 250Vac.	JDYX2	UL	
(Alternate)	LLC					
03f. Fuse (F1)	LITTELFUSE	392	Rated T2A, 250Vac.	JDYX2	UL	
(Alternate)	WICKMANN WERKE					
03g. Fuse (F1)	DONGGUAN BETTER	932	Rated T2A, 250Vac.	JDYX2	UL	
(Alternate)	ELECTRONIC					
	TECHNOLOGY CO					
	LTD			_	ļ	
04. X-Capacitor	Cheng Tung	CTX	Rated max 0.33 uF, min	FOWX2	UL	
(CX1) (optional)	Industrial Co		250 V, X1 or X2 type,			
	Ltd		100 degree C.			
			(Compliance with IEC			

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			60384-14)			
04a. X-Capacitor (CX1) (optional) (Alternate)	Tenta Electric Industrial Co Ltd	MEX	Rated max 0.33uF, min 250 V, X1 or X2 type, 100 degree C. (Compliance with IEC 60384-14)	FOWX2	UL	
04b. X-Capacitor (CX1) (optional) (Alternate)	Ultra Tech Xiphi Enterprise Co Ltd	HQX	Rated max 0.33 uF, min 250 V, X1 or X2 type, 100 degree C. (Compliance with IEC 60384-14)	FOWX2	UL	
04c. X-Capacitor (CX1) (optional) (Alternate)	CARLI ELECTRONICS CO LTD	MPX	Rated max 0.33uF, min 250 V, X1 or X2 type, 100 degree C. (Compliance with IEC 60384-14)	FOWX2	UL	
04d. X-Capacitor (CX1) (optional) (Alternate)	JOEY ELECTRONICS (DONG GUAN) CO LTD	MPX	Rated max 0.33uF, min 250 V, X1 or X2 type, 105 degree C. (Compliance with IEC 60384-14)	FOWX2	UL	
04e. X-Capacitor (CX1) (optional) (Alternate)	XIANGTAI ELECTRONIC (SHENZHEN) CO LTD	MKP/MPX	Rated max 0.33uF, min 250 V, X1 or X2 type, 110 degree C. (Compliance with IEC 60384-14)	FOWX2	UL	
05. Bleeder Resistors (R1, R2)	TZAI YUAN ENTERPRISE CO LTD	HSMD******* , SMD******	Max. 2M ohms, min. 1/4W	AZOP2	UL	
05a. Bleeder Resistors (R1, R2)	PROSPERITY DIELECTRICS CO LTD	FVS03, TF06V, FVS05, TF08V, FVS06, TF12V, FVS20, TF20V, FSV25, TF25V	Max. 2M ohms, min. 1/4W	AZOT2	UL	
05b. Bleeder Resistors (R1, R2)	Ralec Electronic Corp	RTV05, RTV06, RTV12, RTV20,	Max. 2M ohms, min. 1/4W			

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		RTV25 series				
06. Bridge Diode	1		Rated 2A, minimum 600		1	
(BD1)			V.			
07. Storage			Rated 400 V, max. 82uF,			
Capacitor (C1)			min. 105 degree C,			
(For output power			provided with integral			
30-40W			pressure relief			
07a. Storage			Rated 400 V, max. 68uF,			
Capacitor (C1)			min. 105 degree C,			
(For output power			provided with integral			
≤30W			pressure relief			
08. Transistor	Various	Various	Rated 6-15 A, minimum			
(Q1)			600 V.			
09. Bridge	Success	SE, SB, SF	Rated max. 2200pF, min.	FOWX2	UL	
Capacitors (CY1)	Electronics Co		250 Vac, 125 degree C,			
(optional)	Ltd		Y1 type. (Compliance			
			with IEC 60384-14)			
09a. Bridge	TDK CORPORATION	CD	Rated max. 2200pF, min.	FOWX2	UL	
Capacitors (CY1)			250 Vac, 125 degree C,			
(optional)			Y1 type. (Compliance			
(Alternate)			with IEC 60384-14)			
09b. Bridge	Walsin	AH	Rated max. 2200pF, min.	FOWX2	UL	
Capacitors (CY1)	Technology Corp		250 Vac, 125 degree C,			
(optional)			Y1 type. (Compliance			
(Alternate)			with IEC 60384-14)			
09c. Bridge	Haohua	CT 7	Rated max. 2200pF, min.	FOWX2	UL	
Capacitors (CY1)	Electronic Co		250 Vac, 125 degree C,			
(optional)			Y1 type. (Compliance			
(Alternate)			with IEC 60384-14)			
09d. Bridge	XIANGTAI	YOB, YOF, YOE	Rated max. 2200pF, min.	FOWX2	UL	
Capacitors (CY1)	ELECTRONIC		250 Vac, 125 degree C,			
(optional)	(SHENZHEN) CO		Y1 type. (Compliance			
(Alternate)	LTD		with IEC 60384-14)		1	
09e. Bridge	JUHONG ELE CO	JB	Rated max. 2200pF, min.	FOWX2	UL	
Capacitors (CY1)			250 Vac, 125 degree C,			
(optional)			Y1 type. (Compliance			
(Alternate)			with IEC 60384-14)			1

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09f. Bridge Capacitors (CY1) (optional) (Alternate) 10. Optical Isolator (PC1) 10a. Optical Isolators (PC1) (Alternate)	MURATA MFG CO LTD Lite-On Technology Corp Everlight Electronics Co Ltd	LTV-817 EL817	Rated max. 2200pF, min. 250 Vac, 125 degree C, Y1 type. (Compliance with IEC 60384-14) Isolation: 5000 Vac, minimum 100 degree C. Isolation: 5000 Vac, minimum 110 degree C.	FOWX2 FPQU2 FPQU2	UL UL
10b. Optical Isolators (PC1) (Alternate)	COSMO ELECTRONICS CORP	K1010	Isolation voltage minimum 5000 Vac, minimum 115 degree C.	FPQU2	UL
10c. Optical Isolators (PC1) (Alternate)	BRIGHT LED ELECTRONICS CORP	BPC- 817XXXXXX, BPC- 817MXXXXXX, BPC- 817SXXXXXX, where XXXXXX can be any alphanumeric character or blank.	Isolation voltage minimum 5000 Vac, minimum 100 degree C.	FPQU2	UL
10d. Optical Isolators (PC1) (Alternate)	RENESAS ELECTRONICS CORPORATION	PS2561-1	Isolation voltage minimum 5000 Vac, minimum 100 degree C.	FPQU2	UL
10e. Optical Isolators (PC1) (Alternate)	SHENZHEN ORIENT COMPONENTS CO LTD	ORPC-817Mx, ORPC-817Sx, ORPC-817x	Isolation voltage minimum 5000 Vac, minimum 100 degree C.	FPQU2	UL

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11. Line filter	Various	NF00025	Open type construction.		
(NF1) (Optional)			Rated 105 degree C.		
11a Core	Various	Various	Ferrite, toroidal, measured overall approx. 8mm OD by 4 mm ID by 4 mm wide.		
11b Coil	Various	Various	Rated minimum 105 degree C.	OBMW2	UL
12. Line filter (NF2) (Optional)	Various	NF00124	Open type construction. Rated 105 dehree C.		
12a Core	Various	Various	Ferrite, toroidal, measured overall approx. 16mm OD by 12 mm ID by 8 mm wide.		
12b Coil	Various	Various	Rated minimum 105 degree C.	OBMW2	UL
13. Varistor (MOV1) (optional)	CENTRA SCIENCE CORP	CNR 14V511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL
13a. Varistor (MOV1) (optional) (Alternate)	CENTRA SCIENCE CORP	CNR 10V471K, CNR 14D471K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL
13b. Varistor (MOV1) (optional) (Alternate)	CENTRA SCIENCE CORP	CNR 14D511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL
13c. Varistor (MOV1) (optional) (Alternate)	JOYIN CO LTD	10N511K, 10N471K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL
13d. Varistor (MOV1) (optional) (Alternate)	JOYIN CO LTD	14N471K, 14N511K, 14S511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL
13e. Varistor (MOV1) (optional) (Alternate)	THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR 10471K, TVR 10511K, TVR 10471-V	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL
13f. Varistor (MOV1) (optional) (Alternate)	THINKING ELECTRONIC INDUSTRIAL CO	TVR 14471K, TVR 14511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL

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	LTD				
13g. Varistor (MOV1) (optional) (Alternate)	CERAMATE TECHNICAL CO LTD	GNR 14D471K, GNR 14D511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL
13h. Varistor (MOV1) (optional) (Alternate)	CERAMATE TECHNICAL CO LTD	GNR10D471K	Rated minimum 300 Vac, minimum 385 Vdc.		
13i. Varistor (MOV1) (optional) (Alternate)	SUCCESS ELECTRONICS CO LTD	SVR10D471K, SVR10D511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL
13j. Varistor (MOV1) (optional) (Alternate)	SUCCESS ELECTRONICS CO LTD	SVR14D471K, SVR14D511K	Rated minimum 300 Vac, minimum 385 Vdc.	VZCA2	UL, C-UL
14. Transformer (T1) (For output 12-13.5Vdc)	ENG Electric Co	XF00928	Class B, See Illustion- 05 for construction details.		
14. Transformer (T1) (for output 13.6-17Vdc)	ENG Electric Co	XF00942	Class B, See Illustion- 06 for construction details.		
14. Transformer (T1) (for output 17.1-21Vdc)	ENG Electric Co Ltd	XF00943	Class B, See Illustion- 07 for construction details.		
14. Transformer (T1) (for output 21.1-24Vdc)	ENG Electric Co	XF00944	Class B, See Illustion- 08 for construction details.		
14-01. Insulation system for Transformer (T1)	ENG Electric Co., Ltd.	ENG130-1	Insulation system Class B (130 degree C, adapted form GREAT LEOFLON INDUSTRIAL CO LTD, Type GH-130)	OBJY2	UL
14-02. Core			EE type, Ferrite, dimension 8mm OD,		
14-03. Coil			130 degree C	OBMW2	UL
14-04. Bobbin	Chang Chun Plastics Co., Ltd.	Т375Ј	V-0, 150degree C, Phenolic, thickness 0.8mm minimum	QMFZ2	UL
14-04a. Bobbin	SUMITOMO	PM-9820	V-0, 150degree C,	QMFZ2	UL

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(Alternate)	BAKELITE CO LTD		Phenolic, thickness 0.71mm minimum			
14.05			1			
14-05.	Great Holding	TFL, TFS, TFT	Rated 200 degree C, VW-	YDPU2	UL	
Tubing/Sleeving	Industrial Co.		1, 600V max.			
	Ltd.					
14-06. Triple	Great Leoflon	TRW(B)	130 degree C	OBJT2	UL	
Insulated Wire	Industrial Co.					
	Ltd.					
14-07. Varnish	Elantas	V1630FS	Rated minimum 130	OBOR2	UL	
(Alternate)	Electrical		degree C.			
	Insulation					
	Elantas Pdg Inc					
14-07a. Varnish	JOHN C DOLPH CO	BC-346A	Rated minimum 130	OBOR2	UL	
(Alternate)			degree C.			
14-08. Insulation	3M Company	1350F-1,	130 degree C.	OANZ2	UL	
Tape		1350T-1				
14-08a.	BONDTEC PACIFIC	370S	130 degree C.	OANZ2	UL	
Insulation Tape	CO LTD		_			
(Alternate)						
15. Internal Glue			Rated V-2 minimum.	QMFZ2	UL	
Materials						
16. Internal			Rated minimum V-2.	QMFZ2	UL	
Plastic Part						
Materials						
17. Strain Relief	Various	Various	Refer to Illustion-02	QMFZ2	UL	
Of Output Cord			for strain relief			
_			dimension details.			
18. PWB	Various	Various	V-0 or better, minimum	ZPMV2		
			130 degree C.			
19. Label(optional)	Various	Various	Minimum 70 degree C. if	PGDO2, PGJI2	UL	
19: 20201(0p::0::0:)			maximum surface	~ .		
			temperature not			
			specified.			
20. Output cord	Various	Various	Minimum 300 V, 80	AVLV2 or ZJCZ	UL	
	3		degree C, maximum 3.05	32 232		
			m, marked VW-1 or FT-1.			
			Suitable for external			

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			use.			
21. Heat Sink (HS1) (Consideration as Primary)	Various	Various	Aluminum, minimum 2.0 mm thick. See Enclosure for detailed dimensions.			
22. Heat Sink (HS2) (Consideration as secondary)	Various	Various	Aluminum, minimum 1.0 mm thick. See Enclosure for detailed dimensions.			
23. LPS resistor (R10) (For output power 30-40W, the voltage except 15V)			0.56 ohm, 2W.			
23. LPS resistor (R10) (For output power 30-40W, the voltage 15V)			0.51 ohm, 2W.			
22. LPS resistor (R10) (for output power≤30W, the output 12-13.5V)			0.51-0.62 ohm, 2W.			
23. LPS resistor (R10) (for output power≤30W, the output 13.6-17V)			0.68ohm, 2W.			
23. LPS resistor (R10) (for output power≤30W, the output 17.1-24V)			0.75 ohm, 2W.			
24. Bonding Conductor	Various	Various	Green or green/yellow wire, minimum No. 18 AWG.	AVLV, AVLV2	UL	
25. LED barrier (optional)	Sabic Innovative Plastics US L L C	945 (GG)	Min. V-0, min. 1.0 mm thickness, 120°C	QMFZ2	UL	

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ENCLOSURES

Туре	Supplement ID	Description			
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	Figure - 2	Overall View - 2			
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	Figure - 5	Internal View - 2			
	Figure - 6	PWB View - 1			
	Figure - 7	PWB View - 2			
	Figure - 8	PWB View - 3			
Illustrations	Illustration - 1	Enclosure drawing			
	Illustration - 2	Strain Relief Means drawing			
	Illustration - 3	Heatsink HS1 drawing			
	Illustration - 4	Heatsink HS2 drawing			
	Illustration - 5	T1 spec. (p/n XF00928 for 12-13.5V)			
	Illustration - 6	T1 spec. (p/n XF00942 for 13.6-17V)			
	Illustration - 7	T1 spec. (p/n XF00943 for 17.1-21V)			
	Illustration - 8	T1 spec. (p/n XF00944 for 21.1-24V)			
	Illustration - 9	NF1 spec.			
	Illustration - 10	NF2 spec.			
	Illustration - 11	Layout			
	Illustration - 12	Model difference			