File E341351 Project 4789507340

Issued: August 5, 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 (Audio/Video, Information and Communication Technology Equipment)
Complementary Certification	N/A
Product:	ICT/ITE POWER SUPPLY
Model:	GT-46240-***-W2***** series
	The 1st "*" denotes the rated output wattage, which can be "01" to "24", The 2nd "*" denotes the standard rated output voltage designation, with a value of "05","12" and "24". The 3rd "*" is optional deviation, subtracted from standard output voltage, which can be "-0.1" to "- 11.9" with interval of 0.1, or blank to indicate no voltage different. The 2nd "*" and The 3rd "*" together denote the output voltage, with a range of 5-24Vdc. -W2 can be optional, when it is blank, denote to be with replaceable plug The last six * can be 0-9 or A-Z, "(", ")", "[", "]", "-" or blank for marketing purposes.
Rating:	I/P: 100-240Vac,50-60Hz or 50/60Hz, 0.8A O/P: See Model description of general product information 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 under the indicated Test Property bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

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Prepared By:

Amy Wong / Suki Kwong / Project Handler Reviewed By:

Brian Wong / Reviewer

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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 product is a Direct plug-in equipment for Class II 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

Models GT-46240-***-W2*****, where -W2 denotes type of fixed plug;;-W2* can be optional, when it is blank, denote to be with replaceable plug

Model	Output voltage(V)	Max.Output Current(A)	Max.Output Wattage(W)	Transformer
GT-46240-*05-W2*****	5.0Vdc	4.0A	20W	XF00976
GT-46240-*12*-W2*****	5.1-12Vdc	4.0A	24W	XF00976(5.1-7.5V) XF00973(7.6-12V)
GT-46240-*24*-W2*****	12.1-24Vdc	1.98A	24W	XF00973(12.1-15V) XF00974(15.1-24V)

Test Item Particulars (NOT FOR FIELD REPRESENTATIVE	'S USE)					
Classification of installation and use by	☑ Ordinary person ☐ Instructed person ☐ Skilled person					
Supply Connection	 pluggable equipment type A type B permanent connection detachable power supply cord non-detachable power supply cord not directly connected to the mains 					
Equipment mobility:	stationary for building-in direct plug-in					
	□ rack-mounting □ wall-mounted					
Over voltage category (OVC):	□ OVC I					
Fundamental Frequency	⊠ 50/60 Hz □ 50 Hz □ 60 Hz ⊠ other <u>50-60</u> Hz					
Class of equipment:	Class I Class II Class II Not classified					
Access location	\Box restricted access location \boxtimes N/A					
Pollution degree (PD)	🗌 PD 1 🛛 PD 2 🗌 PD 3					
IP protection class	⊠ IP X0 □ IP					
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Tested f	for IT nower systems					M No					
Tested for IT power systems: IT testing, phase-phase voltage (V)											
Altitude during operation (m)						☑ Up to 2,000 □ Up to					
Altitude of test laboratory (m)						Less than 2,000 Deproximately					
Mass of	equipment (kg)			:	0.18 m	ax.					

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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°C
- 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: Plug
- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): Output of all models
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual.

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

For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC. When installed in an end-product, consideration must be given to the following:

- [] The following product-line tests are conducted for this product: [] Earthing Continuity [] Electric Strength
- [] The end-product Electric Strength Test is to be based upon a maximum working voltage of: [] Primary –
 Earthed Dead Meal: ____ Vrms, ____ Vpk; [] Primary-Secondary: ____ Vrms, ____ Vpk
- [] The following output circuits are at [] ES1 [] ES2 [] ES3 energy levels:
- [] The following output circuits are at [] PS1 [] PS2 [] PS3 energy levels:
- [] The maximum investigated branch circuit rating is: [] 20 A [] _____ A
- [] The investigated Pollution Degree is: []1[]2[]3
- [] The front bezel complies with the requirements for [] V-1 [] HB flame rating
- [] Proper bonding to the end-product main protective earthing termination is: [] Required [] Not required
- [] An investigation of the protective bonding terminals has: [] been conducted [] not been conducted
- [] The following input terminals/connectors must be connected to the end-product supply neutral:
- [] The following end-product enclosures are required: [] Mechanical [] Electrical [] Fire
- [] The following magnetic devices (e.g. transformers or inductor) are provided with an OBJY2 insulation system with the indicated rating greater than Class A (105°C):
- [] The following components require special consideration during end-product Thermal (Heating) tests due to the indicated maximum temperature measurements during component-level testing: _____ (___°C)
- [] The maximum continuous power supply output (Watts) relied on forced air cooling from: ____ W fan (_____) at ____ cfm (____ cmm) applied to _____(location/orientation of fan)
- [] The following input terminals were evaluated as suitable for direct connection to the DC Mains Supply:
- [] The equipment is suitable for direct connection to: [] AC mains supply [] DC mains supply [] AC and/or DC mains supply
- [] The power supply was evaluated to be used at altitudes up to: [] 2,000 m [] 5,000 m [] _____ m

Additional Information

N/A

Additional Standard The product fulfils the requirements of:

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Markings, ins and instructio safeguards											
Clause Title		Marki	ng or Instruction	Details							
		Englis	sh		Frenc	h					
Equipment ide marking – Ma identification		Listee	's or Recognized	d company's name,	Trade	Name, Tr	ademark or	File Number			
Equipment ide marking – mo identification		Mode	l Number								
Equipment ra marking –ratii			nput Ratings (voltage, frequency/dc, current/power) Dutput Ratings (voltage, frequency/dc, current/power)								
Class II Equip	Class II Equipment Symbol for Class II construction (IEC 60417-5172)										
LPS Marking	(Optional)	Marke	ed "LPS" or "Lim	ited Power Source"							
Special Instru	ctions to UL	Repre	sentative								
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-Li	ne Testing Re	equire	ments								
Electric Stren information.	gth Test Spe	cial Co	onstructions - Re	efer to Generic Insp	ection	Instructior	ns, Part AC fo	<u>or further</u>			
Model	Compone	ent	Removable Parts	Test probe locat	tion	V rms	V dc	Test Time, s			
All models	T1	-	-	Primary to Seconda	ary	2829	4000	1			
Earthing Cont	tinuity Test E	xempt	ions - This test i	s not required for th	e follov	wing mode	els:				
N/A											
Electric Stren	gth Test Exe	mptior	ns - This test is n	ot required for the f	ollowir	ng models:	- -				
No exemption	۱										
				The following solid- formance of this tes		omponent	s may be dis	sconnected			
N/A											
Sample and T	Fest Specifics	s for F	ollow-Up Tests a	at UL							
Model	Compone	nt	Material	Test		Sam	nple(s)	Test Specifics			
N/A	N/A	Ν	I/A	N/A		N/A		N/A			

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4.1.2	TABLE: list of critical components								
Object/part or Description	Manufacturer/ trademark	type/model	technical data	Product Category CCN(s)	Required Marks of Conformity	Supplement ID			
01. Enclosure and plug holder material (Alternate)	SABIC JAPAN L L C	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 Enclosure ID Ill-01 to Ill-02 for details.	QMFZ2	UL				
01a. Enclosure and plug holder material (Alternate)	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 Enclosure ID Ill-01 to Ill-02 for details.	QMFZ2	UL				
Olb. Enclosure and plug holder material (Alternate)	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 Enclosure ID Ill-01 to Ill-02 for details.	QMFZ2	UL				

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01c. Enclosure and plug holder material	COVESTRO DEUTSCHLAND AG [PC RESINS]	FR6005 + (z)	Two pieces construction, secured together by ultrasonic	QMFZ2	UL	
(Alternate)			welding, rated V-0 or better, 105 degree C min. Minimum 2.0 mm thickness. See Enclosure ID Ill-01 to Ill-02 for details.			
01d. Enclosure and plug holder material (Alternate)	ENGINEERING PLASTICS (DONGGUAN) CO LTD	PC2330	Two pieces construction, secured together by ultrasonic welding, rated V-0 or better, 115 degree C min. Minimum 2.0 mm thickness.See Enclosure ID Ill-01 to Ill-02 for details.	QMFZ2	UL	
02. Input Blades	Various	Various	Solid copper, non- grounding, non- polarized, NEMA 1-15P configuration, integrally moulded on Bottom Enclosure. Spaced minimum 5.1 mm from perimeter edge of Enclosure.			
03. Fuse (FS1)	Various	Various	Listed, T2.5AL, 250Vac	JDYX	UL	
03a. Fuse (FS1) (Alternate)	Conquer Electronics Co Ltd	MST	Rated T2.5AL, 250Vac	JDYX2	UL	

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03b. Fuse (FS1)	Ever Island	2010	Rated T2.5AL, 250Vac	JDYX2	UL	
(Alternate)	Electric Co Ltd					
	& Walter					
	Electric					
03c. Fuse (FS1)	COOPER BUSSMANN	SS-5	Rated T2.5AL, 250Vac	JDYX2	UL	
(Alternate)	LLC					
03d. Fuse (FS1)	Bel Fuse Inc	RST	Rated T2.5AL, 250Vac	JDYX2	UL	
(Alternate)						
03e. Fuse (FS1)	DONGGUAN BETTER	932	Rated T2.5AL, 250Vac	JDYX2	UL	
(Alternate)	ELECTRONIC					
	TECHNOLOGY CO					
	LTD					
03f. Fuse (FS1)	HOLLYLAND CO LTD	5et	Rated T2.5AL, 250Vac	JDYX2	UL	
(Alternate)						
04. X-Capacitor	Cheng Tung	CTX	Rated max 0.22 uF, min	FOWX2	UL	
(CX1)	Industrial Co		250 V, X1 or X2 type,			
	Ltd		110 degree C.			
04a. X-Capacitor	Tenta Electric	MEX	Rated max 0.22uF, min	FOWX2	UL	
(CX1)	Industrial Co		250 V, X1 or X2 type,			
(Alternate)	Ltd		100 degree C.			
04b. X-Capacitor	Ultra Tech Xiphi	HQX	Rated max 0.22 uF, min	FOWX2	UL	
(CX1)	Enterprise Co		250 V, X1 or X2 type,			
(Alternate)	Ltd		100 degree C.			
04c. X-Capacitor	CARLI	MPX	Rated max 0.22 uF, min	FOWX2	UL	
(CX1)	ELECTRONICS CO		250 V, X1 or X2 type,			
(Alternate)	LTD		100 degree C.			
04d. X-Capacitor	JOEY ELECTRONICS	MPX	Rated max 0.22 uF, min	FOWX2	UL	
(CX1)	(DONG GUAN) CO		250 V, X1 or X2 type,			
(Alternate)	LTD		105 degree C.			
04e. X-Capacitor	XIANGTAI	MKP/MPX	Rated max 0.22 uF, min	FOWX2	UL	
(CX1)	ELECTRONIC		250 V, X1 or X2 type,			
(Alternate)	(SHENZHEN) CO		110 degree C.			
	LTD					

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05. Bleeder Resistor (RS1, RS2)	TZAI YUAN ENTERPRISE CO LTD	HSMD series SMD series	100k-2MOhm, min. 1/4W	AZOP2	UL	
05a. Bleeder Resistor (RS1, RS2) (Alternate)	PROSPERITY DIELECTRICS CO LTD	FVS06, TF12V, FVS20, TF20V, FVS25, TF25V	100k-2MOhm, min. 1/4W	AZOT2	UL	
05b. Bleeder Resistor (RS1, RS2) (Alternate)	Ralec Electronic Corp	RTV06, RTV12, RTV20, RTV25	100k-2MOhm, min. 1/4W		UL Demko	
06. Varistor (MOV1) (optional)	CENTRA SCIENCE CORP	CNR 14V511K	Rated minimum 300 Vac, minimum 385 Vdc. The coating is min. V-0.	VZCA2	UL	
06a. Varistor (MOV1) (optional) (Alternate)	CENTRA SCIENCE CORP	CNR 10V471K, CNR 14D471K	Rated minimum 300 Vac, minimum 385 Vdc. The coating is min. V-0.	VZCA2	UL	
06b. Varistor (MOV1) (optional) (Alternate)	CENTRA SCIENCE CORP	CNR 14D511K	Rated minimum 300 Vac, minimum 385 Vdc. The coating is min. V-0.	VZCA2	UL	
06c. Varistor (MOV1) (optional) (Alternate)	JOYIN CO LTD	10N511K, 10N471K	Rated minimum 300 Vac, minimum 385 Vdc. The coating is min. V-0.	VZCA2	UL	
06d. Varistor (MOV1) (optional) (Alternate)	JOYIN CO LTD	14N471K, 14N511K, 14S511K	Rated minimum 300 Vac, minimum 385 Vdc. The coating is min. V-0.	VZCA2	UL	
06e. Varistor (MOV1) (optional) (Alternate)	THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR14471, TVR10471-V	Rated minimum 300 Vac, minimum 385 Vdc. The coating is min. V-0.	VZCA2	UL	

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06f. Varistor	THINKING	TVR14511	Rated minimum 300 Vac,	VZCA2	UL	
(MOV1)	ELECTRONIC		minimum 385 Vdc. The	1 2 0112	02	
(optional)	INDUSTRIAL CO		coating is min. V-0.			
(Alternate)	LTD					
06g. Varistor	SUCCESS	SVR10D471Kxxx	Rated minimum 300 Vac,	VZCA2	UL	
(MOV1)	ELECTRONICS CO	xH,	minimum 385 Vdc. The			
(optional)	LTD	SVR14D471Kxxx				
(Alternate)		xH				
06h. Varistor	SUCCESS	SVR14D511Kxxx	Rated minimum 300 Vac,	VZCA2	UL	
(MOV1)	ELECTRONICS CO	xH,	minimum 385 Vdc. The			
(optional)	LTD	SVR10D511Kxxx	coating is min. V-0.			
(Alternate)		хH				
07. Diode (DS1,			Rated 1A, minimum 1000			
DS2, DS3, DS4)			v.			
08. Storage			Rated min. 400 V, 47uF,			
Capacitor (C1)			min. 105 degree C,			
_			provided with integral			
			pressure relief			
09. Transistor	Various	Various	4A min., minimum 600 V.			
(Q1)						
(for model GT-						
46240-*05-W2*****)						
09a. Transistor	Various	Various	7A min., minimum 600 V.			
(Q1)						
(Alternate)						
(for model GT-						
46240-*12*-						
W2***** and GT-						
46240-*24*-						
W2*****)						
10. Bridge	Success	SE, SB, SF	Rated max. 1000pF, min.	FOWX2	UL	
Capacitors (CY1)	Electronics Co	, .	250 Vac, 125 degree C,			
· · · · ·				1	1	

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10a. Bridge	TDK CORPORATION	CD	Rated max. 1000pF, min.	FOWX2	UL	
Capacitors (CY1)			250 Vac, 125 degree C,			
(optional)			Y1 type.			
(Alternate)						
10b. Bridge	Walsin	AH	Rated max. 1000pF, min.	FOWX2	UL	
Capacitors (CY1)	Technology Corp		250 Vac, 125 degree C,			
(optional)			Yl type.			
(Alternate)						
10c. Bridge	Haohua	CT 7	Rated max. 1000pF, min.	FOWX2	UL	
Capacitors (CY1)	Electronic Co		250 Vac, 125 degree C,			
(optional)			Y1 type.			
(Alternate)						
10d. Bridge	XIANGTAI	YOB, YOF, YOE	Rated max. 1000pF, min.	FOWX2	UL	
Capacitors (CY1)	ELECTRONIC		250 Vac, 125 degree C,			
(optional)	(SHENZHEN) CO		Y1 type.			
(Alternate)	LTD					
10e. Bridge	JUHONG ELE CO	JB-serie	Rated max. 1000pF, min.	FOWX2	UL	
Capacitors (CY1)			250 Vac, 125 degree C,			
(optional)			Yl type.			
(Alternate)						
10f. Bridge	MURATA MFG CO	KX	Rated max. 1000pF, min.	FOWX2	UL	
Capacitors (CY1)	LTD		250 Vac, 125 degree C,			
(optional)			Yl type.			
(Alternate)						
11. Optical	Lite-On	LTV-817	Isolation: 5000 Vac,	FPQU2	UL	
Isolator (U1)	Technology Corp		minimum 100 degree C.			
			DTI=0.4mm minimum.			
11a. Optical	Everlight	EL817	Isolation: 5000 Vac,	FPQU2	UL	
Isolators (U1)	Electronics Co		minimum 110 degree C.			
(Alternate)	Ltd		DTI=0.4mm minimum.			
11b. Optical	COSMO	К1010	Isolation voltage	FPQU2	UL	
Isolators (U1)	ELECTRONICS CORP		minimum 5000 Vac,			
(Alternate)			minimum 115 degree C.			
			DTI=0.4mm minimum.			

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11c. Optical	BRIGHT LED	BPC-	Isolation voltage	FPQU2	UL	
Isolators (U1)	ELECTRONICS CORP		minimum 5000 Vac,	11202	01	
(Alternate)		BPC-	minimum 100 degree C.			
(112002110.00)		817MXXXXXX,	DTI=0.4mm minimum.			
		BPC-				
		817SXXXXXX,				
		where XXXXXX				
		can be any				
		alphanumeric				
		character or				
		blank.				
11d. Optical	RENESAS	PS2561-1	Isolation voltage	FPQU2	UL	
Isolators (U1)	ELECTRONICS		minimum 5000 Vac,	2		
(Alternate)	CORPORATION		minimum 100 degree C.			
			DTI=0.4mm minimum.			
11e. Optical	SHENZHEN ORIENT	ORPC-817Mx@,	Isolation voltage	FPQU2	UL	
Isolators (U1)	COMPONENTS CO	ORPC-817Sx@,	minimum 5000 Vac,	~		
(Alternate)	LTD	ORPC-817x@	minimum 100 degree C.			
			DTI=0.4mm minimum.			
12. Line filter	Various	NF00103	Open type construction.			
(LF1)			Rated 130 degree C. See			
			Enclosure ID Ill-09 for			
			details.			
12-01. Core	Various	Various	Ferrite, overall			
			measured overall 15.5			
			mm by 10.5 mm by 2.75			
			mm			
12-02. Coil	Various	Various	Rated minimum 130	OBMW2	UL	
			degree C.			
13. Transformer	ENG Electric Co	XF00976	Class B, See Enclosure			
(T1)	Ltd		ID Ill-06 for details.			
(for output 5-						
7.5V)						
		1			1	

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13a. Transformer (T1)	ENG Electric Co Ltd	XF00973	Class B, See Enclosure ID Ill-07 for details.			
(for output 7.6-	шса		ID III-07 IOI decails.			
(101 Output 7.8- 15V)						
	ING Electroic Ge	XF00974	Class D. Gas Erglasung			
13b. Transformer (T1)	ENG Electric Co Ltd	XF00974	Class B, See Enclosure ID Ill-08 for details.			
	ши		ID III-08 IOF details.			
(for output 15.1-						
24V)						
13-01. Insulation	ENG Electric	ENG130-1	1	OBJY2	UL	
system for	Co., Ltd.		B (130 degree C,			
Transformer (T1)			adapted form GREAT			
			LEOFLON INDUSTRIAL CO			
			LTD, Type GH-130)			
13-02. Core			Ferrite, dimension22.7			
			mm by 19.4 mm by 5.8mm			
13-03. Coil	Various	Various	130 degree C	OBMW2	UL	
13-04. Bobbin	Chang Chun	T375J	V-0, 150degree C,	QMFZ2	UL	
	Plastics Co.,		Phenolic, thickness			
	Ltd.		0.8mm minimum			
13-04a. Bobbin	SUMITOMO	PM-9820	V-0, 150degree C,	QMFZ2	UL	
(Alternate)	BAKELITE CO LTD		Phenolic, thickness			
			0.71mm minimum			
13-05.	Great Holding	TFL, TFS, TFT	Rated 200 degree C, VW-	YDPU2	UL	
Tubing/Sleeving	Industrial Co.		1, 600V max.			
	Ltd.					
13-06. Triple	Great Leoflon	TRW(B)	130 degree C	OBJT2	UL	
Insulated Wire	Industrial Co.					
	Ltd.					
13-07. Varnish	John C. Dolph	BC-346A	Rated minimum 200	OBOR2	UL	
	Co.		degree C.			
13-07a. Varnish	Elantas	V1630FS	Rated minimum 130	OBOR2	UL	
(Alternate)	Electrical		degree C.			
	Insulation					
	Elantas Pdg Inc					
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3M Company	1350F-(#)	130 degree C.	OANZ2	UL	
3M Company	1350T-1	130 degree C.	OANZ2	UL	
BONDTEC PACIFIC	370S	130 degree C.	OANZ2	UL	
CO LTD					
Various	Various	V-1 min. See Enclosure	QMFZ2	UL	
		ID Ill-05 for details.			
Various	Various	Rated Minimum 30 V,	AVLV2	UL	
		Minimum 80 degree C,	ZJCZ		
		Maximum 3.05 m long,			
		rated VW-1 or FT-1.			
		Terminates with a			
		polarized connector			
		outside enclosure.			
Various	Various	V-1 or better, minimum	ZPMV2		
		105 degree C.			
Various	Various	Minimum 70 degree C. if	PGDQ2, PGJI2	UL	
		maximum surface			
		temperature not			
		specified.			
Various	Various	Aluminum, minimum 1.2			
		mm thick. See			
		Enclosure ID Ill-03 for			
		details.			
Various	Various	Aluminum, minimum 2.0			
		mm thick. See			
		Enclosure ID Ill-04 for			
		details.			
	3M Company BONDTEC PACIFIC CO LTD Various Various Various Various Various	3M Company 1350T-1 BONDTEC PACIFIC CO LTD 370S Various Various Various Various	3M Company1350T-1130 degree C.BONDTEC PACIFIC CO LTD370S130 degree C.VariousVariousV-1 min. See Enclosure ID Ill-05 for details.VariousVariousRated Minimum 30 V, Minimum 80 degree C, Maximum 3.05 m long, rated VW-1 or FT-1. Terminates with a polarized connector outside enclosure.VariousVariousV-1 or better, minimum 105 degree C.VariousVariousV-1 or better, minimum 105 degree C.VariousVariousMinimum 70 degree C. if maximum surface temperature not specified.VariousVariousAluminum, minimum 1.2 mm thick. See Enclosure ID Ill-03 for details.VariousVariousAluminum, minimum 2.0 mm thick. See Enclosure ID Ill-04 for	3M Company1350T-1130 degree C.OANZ2BONDTEC PACIFIC CO LTD370S130 degree C.OANZ2VariousVariousV-1 min. See Enclosure ID Ill-05 for details.QMFZ2VariousVariousRated Minimum 30 V, Minimum 80 degree C, Maximum 3.05 m long, rated VW-1 or FT-1. Terminates with a polarized connector outside enclosure.AVLV2VariousVariousV-1 or better, minimum 105 degree C.ZPMV2VariousVariousMinimum 70 degree C. if maximum surface temperature not specified.PGDQ2, PGJI2VariousVariousAluminum, minimum 1.2 m thick. See Enclosure ID Ill-03 for detailsVariousVariousAluminum, minimum 2.0 mm thick. See Enclosure ID Ill-04 for	3M Company1350T-1130 degree C.OANZ2ULBONDTEC PACIFIC CO LTD370S130 degree C.OANZ2ULWariousVariousV-1 min. See Enclosure ID Ill-05 for details.QMFZ2ULVariousVariousRated Minimum 30 V, Maximum 3.05 m long, rated VW-1 or FT-1. Terminates with a polarized connector outside enclosure.AVLV2ULVariousVariousV-1 or better, minimum 105 degree C.ZDCZVariousVariousV-1 or better, minimum not degree C.PGDQ2, PGJI2ULVariousVariousMinimum 70 degree C. if maximum surface temperature not specified.PGDQ2, PGJI2ULVariousVariousAluminum, minimum 1.2 mm thick. See Enclosure ID Ill-03 for detailsVariousVariousAluminum, minimum 2.0 mm thick. See Enclosure ID Ill-04 for

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		2.7 ohm, 1/4W.			
		2.4 ohm, 1/4W.			
		2.0 ohm, 1/4W.			
		2.7 ohm, 1/4W.			
		2.2 ohm, 1/4W.			
Various	Various	Rated V-2 minimum.	QMFZ2	UL	
Various	Various	Rated V-2 minimum.	QMFZ2	UL	
	 Various	 Various Various	2.4 ohm, 1/4W. 2.0 ohm, 1/4W. 2.7 ohm, 1/4W. 2.2 ohm, 1/4W. 2.2 ohm, 1/4W. Various Various Rated V-2 minimum.	2.4 ohm, 1/4W 2.0 ohm, 1/4W 2.7 ohm, 1/4W 2.7 ohm, 1/4W 2.2 ohm, 1/4W Various Various Rated V-2 minimum. QMFZ2	2.4 ohm, 1/4W. 2.0 ohm, 1/4W. 2.0 ohm, 1/4W. 2.7 ohm, 1/4W. 2.7 ohm, 1/4W. 2.2 ohm, 1/4W. Various Various Rated V-2 minimum. QMFZ2 UL

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ENCLOSURES

<u>Type</u>	Supplement Id	Description
Photographs	Figure-01	External overview-1 for GT-46240-***
	Figure-02	External overview-2 for GT-46240-***
	Figure-03	External overview-1 for GT-46240-***-W2
	Figure-04	External overview-2 for GT-46240-***-W2
	Figure-05	External overview for output cord
	Figure-06	Internal overview
	Figure-07	PCB top view
	Figure-08	PCB top view w/o heatsink
	Figure-09	PCB bottom view
Illustrations	Illustration-01	Enclosure drawing for GT-46240-***
	Illustration-02	Enclosure drawing for GT-46240-***-W2
	Illustration-03	Heatsink HS1 drawing
	Illustration-04	Heatsink HS2 drawing
	Illustration-05	Strain relief drawing of output cord
	Illustration-06	Transformer T1 spec for GT-46240-*05 and GT-46240-*05-W2
	Illustration-07	Transformer T1 spec for GT-46240-*12 and GT-46240-*12*-W2
	Illustration-08	Transformer T1 spec GT-46240-*24 and GT-46240-*24*-W2
	Illustration-09	Choke LF1 drawing
	Illustration-10	Direct Plug in 1-15P Dimension
	Illustration-11	PCB layout
	Illustration-12	Model configuration

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