UL TEST REPORT AND PROCEDURE

Standard: Certification Type: CCN:	UL 60950-1, 2nd Edition, 2011-12-19 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-07, 2nd Edition, 2011-12 (Information Technology Equipment - Safety - Part 1: General Requirements) Listing QQGQ, QQGQ7 (Power Supplies for Information Technology Equipment Including Electrical Business Equipment)
Product: Model: Rating:	ITE Power Supply GT-93020-0324 Input: 16-34 Vac or 24 Vac, 2.0 A, 50-60 Hz Output: 24 Vdc, 0.125 A, 1A peak
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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Reviewed by: Henry Ho

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

This product is a ITE Power Supply can be connected with input wire (not provided), which is intended to be used for information technology equipment in TN power systems and are for indoor use only. Input is secondary hazardous live input and secondary SELV output is kept in reinforced insulation. It consists of an isolated transformer with electronic circuitry housed in a thermoplastic enclosure.

Model Differences

N/A

Technical Considerations

- Equipment mobility : movable
- 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 : 16Vac to 34Vac
- 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): 20 A
- Pollution degree (PD) : PD 2
- IP protection class : IP X0
- Altitude of operation (m) : Up to 2000m
- Altitude of test laboratory (m) : less than 200 meters
- Mass of equipment (kg) : 0.121kg
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 65°C

- The means of connection to the mains supply is: not directly connected to mains
- The product is intended for use on the following power systems: TN
- The equipment disconnect device is considered to be: Input connector CON1
- The following accessible locations (with circuit/schematic designation) are within a limited current circuit: CY1 Secondary Side
- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS): Output
- The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual
- The mounting device of the unit is for mounting on the standardized DIN rail. The Loading Test were considered and found compliance as result.

Additional Information	
N/A	
Additional Standards	
The product fulfills the re	equirements of: N/A
Markings and instruction	ons
Clause Title	Marking or Instruction Details
LPS	Optional provides with marked "LPS" or "Limited Power Source".
1.7.1 Power rating - Ratings	Ratings (voltage, frequency/dc, current)
1.7.1 Power rating - Company identification	Listee's or Recognized company's name, Trade Name, Trademark or File Number
1.7.1 Power rating - Model	Model Number
1.7.1 Power rating - Class II symbol	Symbol for Class II construction (Class II model only)
1.7.6 Fuses - Rating	Rated current and voltage and type located on or adjacent to fuse or fuseholder.
Special Instructions to	UL Representative

Production-L	ine Testing Requ	uirements					
Electric Stren	gth Test Special	Constructions	- Refer to Generic Inspe	ction In	structions, Pa	art AC for	
further inforn	nation.						
Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s	
All models	T1	N/A	Primary to Secondary	200 0		1	
Earthing Con	tinuity Test Exer	nptions - This te	est is not required for th	<u>e follow</u>	<u>ving models:</u>		
All							
<u>Electric Strer</u> N/A	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:							
IN/A							
Sample and Test Specifics for Follow-Up Tests at UL							
Model	Component	Material	Test	S	Sample(s)	Test Specifics	
N/A							

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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
Plastic Enclosure	SABIC INNOVATIVE PLASTICS US L L C	940 (f1)	Min 2.0mm, Thickness, Rated min V-0, 120 degC.	QMFZ2/8	UL/cUL (E121562)	
Fuse (F1)	Various	Various	Rated 2A, 250Vac, T2.0A250V, Certified to IEC 60127 or EN 60127 (verified through fuse surface marking and fuse specification	JDYX/7	UL/cUL/ VDE/ SEMKO/ BSI/ TUV/ NEMKO	
Fuse (F1)	Various	Various	Rated 2A, 250Vac, T2.0A250V, Certified to IEC 60127 or EN 60127 (verified through fuse surface marking and fuse specification	JDYX2/8	UL/cUL/ VDE/ SEMKO/ BSI/ TUV/ NEMKO	
Input connector (CON1)	Various	Various	Min. 1A, Min.40Vac, Min. V-1, Min.90 degC	ECBT2/8	UL/cUL	
Varistor MOV(optional)	THINKING ELECTRONIC INDUSTRIAL CO LTD	TVR10680, TVR07680, TVR14680	Rated 40Vac, protection voltage 330Vpk	VZCA2/8	UL/cUL (E314979)	
Varistor MOV(optional)	JOYIN CO LTD	7N680K, 10N680K, 14N680K	Rated 40Vac, protection voltage 330Vpk	VZCA2/8	UL/cUL (E325508)	
Varistor MOV(optional)	CENTRA SCIENCE CORP	CNR07D680K, CNR10D680K, CNR14D680K	Rated 40Vac, protection voltage 330Vpk	VZCA2/8	UL/cUL (E316325)	
Varistor MOV(optional)	SUCCESS ELECTRONICS CO LTD	SVR07D680K, SVR10D680K, SVR14D680K	Rated 40Vac, protection voltage 330Vpk	VZCA2/8	UL/cUL (E330256)	
Varistor MOV(optional)	BRIGHTKING (SHENZHEN) CO LTD	680KD07, 680KD10, 680KD14	Rated 40Vac, protection voltage 330Vpk	VZCA2/8	UL/cUL (E327997)	
Varistor MOV(optional)	WALSIN TECHNOLOGY	VZ07D680K, VZ10D680K,	Rated 40Vac, protection voltage 330Vpk	VZCA2/8	UL/cUL (E309297)	

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	CORP	VZ14D680K			
Varistor MOV(optional)	LIEN SHUN	07D680K,	Rated 40Vac, protection	VZCA2/8	UL/cUL
	ELECTRONICS CO	10D680K,	voltage 330Vpk		(E315524)
	LTD	14D680K	0		
Varistor MOV(optional)	CERAMATE	GNR07D680K.	Rated 40Vac. protection	VZCA2/8	UL/cUL
	TECHNICAL COLTD	GNR10D680K GN	voltage 330Vpk		(F315429)
		D14D680K	tonago ocotpix		(_010120)
Varistor MOV(optional)	HONGZHI	HELZD680K	Rated 40Vac_protection	VZCA2/8	
	ENTERPRISES I TD	HEI 10D680K	voltage 330Vpk		(F324904)
		HEI 14D680K	relage eeerph		(_0_1)
Varistor MOV(optional)	CERGLASS MEG	07D680K	Rated 40Vac_protection	V7CA2/8	
		10D680K	voltage 330Vpk	120/12/0	(E317616)
		14D680K	Voltage 000 V pix		
Varistor MOV(optional)		07D680K	Rated 40V/ac_protection	\/7CΔ2/8	
	FUTURE	100680K	voltage 330V/pk	VZORZIO	(E323753)
		14D680K	Voltage 500 V pix		(2020100)
Disader Desisters (D1)	Mediana	N/ :			
RIGENER RESISTORS (RT)		Various			
A Capacitor (CX1)		Various	Max 330KΩ Pated 0.22µE max, Min	 EOW/X2/8	
X-Capacitor (CX1)	CHENG TUNG	CTX	Max 330KΩ Rated 0.22uF max. Min	 FOWX2/8	 UL/cUL (E103040\\)/
X-Capacitor (CX1) (Optional)	CHENG TUNG INDUSTRIAL CO	CTX	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied	 FOWX2/8	 UL/cUL (E193049)/V
X-Capacitor (CX1) (Optional)	CHENG TUNG INDUSTRIAL CO LTD	CTX	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14	FOWX2/8	 UL/cUL (E193049)/V DE
X-Capacitor (CX1) (Optional)	Various CHENG TUNG INDUSTRIAL CO LTD WINDAY	CTX MPX	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min	 FOWX2/8 FOWX2/8	 UL/cUL (E193049)/V DE UL/cUL
X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional)	Various CHENG TUNG INDUSTRIAL CO LTD WINDAY ELECTRONIC	CTX MPX	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied	 FOWX2/8 FOWX2/8	 UL/cUL (E193049)/V DE UL/cUL (E302125)/V
X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional)	Various CHENG TUNG INDUSTRIAL CO LTD WINDAY ELECTRONIC INDUSTRIAL CO	CTX MPX	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14	 FOWX2/8 FOWX2/8	 UL/cUL (E193049)/V DE UL/cUL (E302125)/V DE
X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional)	Various CHENG TUNG INDUSTRIAL CO LTD WINDAY ELECTRONIC INDUSTRIAL CO LTD	MPX	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14	FOWX2/8	 UL/cUL (E193049)/V DE UL/cUL (E302125)/V DE
X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1)	Various CHENG TUNG INDUSTRIAL CO LTD WINDAY ELECTRONIC INDUSTRIAL CO LTD ULTRA TECH XIPHI	MPX HQX	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min	 FOWX2/8 FOWX2/8 FOWX2/8	 UL/cUL (E193049)/V DE UL/cUL (E302125)/V DE UL/cUL
X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional)	Various CHENG TUNG INDUSTRIAL CO LTD WINDAY ELECTRONIC INDUSTRIAL CO LTD ULTRA TECH XIPHI ENTERPRISE CO	Various CTX MPX HQX	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied	 FOWX2/8 FOWX2/8 FOWX2/8	 UL/cUL (E193049)/V DE UL/cUL (E302125)/V DE UL/cUL (E183780)/V
X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional)	Various CHENG TUNG INDUSTRIAL CO LTD WINDAY ELECTRONIC INDUSTRIAL CO LTD ULTRA TECH XIPHI ENTERPRISE CO LTD	Various CTX MPX HQX	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14	 FOWX2/8 FOWX2/8 FOWX2/8	 UL/cUL (E193049)/V DE UL/cUL (E302125)/V DE UL/cUL (E183780)/V DE
X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1)	Various CHENG TUNG INDUSTRIAL CO LTD WINDAY ELECTRONIC INDUSTRIAL CO LTD ULTRA TECH XIPHI ENTERPRISE CO LTD OKAYA ELECTRIC	Various CTX MPX HQX RE series	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min	 FOWX2/8 FOWX2/8 FOWX2/8	 UL/cUL (E193049)/V DE UL/cUL (E302125)/V DE UL/cUL (E183780)/V DE UL/cUL
X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional)	Various CHENG TUNG INDUSTRIAL CO LTD WINDAY ELECTRONIC INDUSTRIAL CO LTD ULTRA TECH XIPHI ENTERPRISE CO LTD OKAYA ELECTRIC INDUSTRIES CO	Various CTX MPX HQX RE series	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied	 FOWX2/8 FOWX2/8 FOWX2/8	 UL/cUL (E193049)/V DE UL/cUL (E302125)/V DE UL/cUL (E183780)/V DE UL/cUL (E47474)
X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional)	Various CHENG TUNG INDUSTRIAL CO LTD WINDAY ELECTRONIC INDUSTRIAL CO LTD ULTRA TECH XIPHI ENTERPRISE CO LTD OKAYA ELECTRIC INDUSTRIES CO LTD	Various CTX MPX HQX RE series	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14	 FOWX2/8 FOWX2/8 FOWX2/8	 UL/cUL (E193049)/V DE UL/cUL (E302125)/V DE UL/cUL (E183780)/V DE UL/cUL (E47474) /VDE
X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional)	Various CHENG TUNG INDUSTRIAL CO LTD WINDAY ELECTRONIC INDUSTRIAL CO LTD ULTRA TECH XIPHI ENTERPRISE CO LTD OKAYA ELECTRIC INDUSTRIES CO LTD VISHAY	Various CTX MPX HQX RE series F1772	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min	 FOWX2/8 FOWX2/8 FOWX2/8 FOWX2/8	 UL/cUL (E193049)/V DE UL/cUL (E302125)/V DE UL/cUL (E183780)/V DE UL/cUL (E47474) /VDE UL/cUL
X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional)	Various CHENG TUNG INDUSTRIAL CO LTD WINDAY ELECTRONIC INDUSTRIAL CO LTD ULTRA TECH XIPHI ENTERPRISE CO LTD OKAYA ELECTRIC INDUSTRIES CO LTD VISHAY CAPACITORS	Various CTX MPX HQX RE series F1772	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied	 FOWX2/8 FOWX2/8 FOWX2/8 FOWX2/8	 UL/cUL (E193049)/V DE UL/cUL (E302125)/V DE UL/cUL (E183780)/V DE UL/cUL (E47474) /VDE UL/cUL (E100682)
X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional) X-Capacitor (CX1) (Optional)	Vanous CHENG TUNG INDUSTRIAL CO LTD WINDAY ELECTRONIC INDUSTRIAL CO LTD ULTRA TECH XIPHI ENTERPRISE CO LTD OKAYA ELECTRIC INDUSTRIES CO LTD VISHAY CAPACITORS BELGIUM N V	Various CTX MPX HQX RE series F1772	Max 330KΩ Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14 Rated 0.22uF max. Min 250Vac, 100degC, complied with IEC60384-14	 FOWX2/8 FOWX2/8 FOWX2/8 FOWX2/8	 UL/cUL (E193049)/V DE UL/cUL (E302125)/V DE UL/cUL (E183780)/V DE UL/cUL (E47474) /VDE UL/cUL (E100682) /VDE

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(Optional)	INDUSTRIAL CO		250Vac, 100degC, complied		(E186475)
	LTD		with IEC60384-14		INDE
X-Capacitor (CX1)	DAIN	MEX, MPX, NPX	Rated 0.22uF max. Min	FOWX2/8	UL/cUL
(Optional)	ELECTRONICS CO		250Vac, 100degC, complied		(E147776)
	LTD		with IEC60384-14		/VDE
X-Capacitor (CX1)	SINHUA	MPX	Rated 0.22uF max. Min	FOWX2/8	UL/cUL
(Optional)	ELECTRONICS		250Vac, 100degC, complied		(E237560)
	(HUZHOU) CO LTD		with IEC60384-14		/VDE
X-Capacitor (CX1)	FOSHAN SHUNDE	MKP-X2	Rated 0.22uF max. Min	FOWX2/8	UL/cUL
(Optional)	CHUANG GE		250Vac, 100degC, complied		(E308832)
	ELECTRONIC		with IEC60384-14		/VDE
	INDUSTRIAL CO				
	LID				
X-Capacitor (CX1)	SHUN DE DAHUA	НО	Rated 0.22uF max. Min	FOWX2/8	UL/CUL
(Optional)	ELECTRIC COLTD		250Vac, 100degC, complied		(E227157)
			with IEC60384-14		/VDE
X-Capacitor (CX1)	JIANGSU XINGHUA	MPX	Rated 0.22uF max. Min	FOKY2/8	UL/CUL
(Optional)	HUAYU		250Vac, 100degC, complied		(E311166)
	ELECTRONICS CO		with IEC60384-14		/VDE
		D4 D		501412/0/0	
X-Capacitor (CX1)	CAPATRONICS	BIB	Rated 0.220F max. Min	FOWX2/8	
(Optional)			250Vac, 100degC, compiled		(E252212)
	(KUNSHAN) CO		WITH IEC60384-14		/VDE
X Capacitor (CX1)		¥2	Pated 0.22uE max Min		
		~2	Rated 0.220F Max. Will		(E102572)
(Optional)	ENTERFRISES LTD		with IEC60384 14		
V-Canacitors (CV1)	WELSON	WD	Rated may 2200nE Min 250V	FOW/X2/8	
(Optional)			105degC marked with V1	1 000/2/0	(E104572)
			complied with IEC60384-14		
Y-Canacitors (CY1)	SUCCESS	SF SB	Rated max 2200nE Min 250V	FOW/X2/8	
(Ontional)	FLECTRONICS CO		105degC marked with V1		(F114280)
			complied with IEC60384-14		//DF
Y-Capacitors (CY1)		CD	Rated max 2200pF Min 250V	FOWX2/8	
			1×1000 max. 2×100 pr , with 200 V,	1 0 1 1 2 0	

Issue Date:

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(Optional)			105degC, marked with Y1,		(E37861)
			complied with IEC60384-14		/VDE
Y-Capacitors (CY1)	WALSIN	AH	Rated max.2200pF, Min 250V,	FOWX2/8	UL/cUL
(Optional)	TECHNOLOGY		105degC, marked with Y1,		(E146544)
	CORP		complied with IEC60384-14		ÌVDE
Y-Capacitors (CY1)	JYA-NAY CO LTD	JN	Rated max.2200pF, Min 250V,	FOWX2/8	UL/cUL
(Optional)			105degC, marked with Y1,		(E201384)
			complied with IEC60384-14		ÌVDE
Y-Capacitors (CY1)	KUNSHAN	CT7	Rated max.2200pF, Min 250V,	FOWX2/8	UL/cUL
(Optional)	WANSHENG		105degC, marked with Y1,		(E249006)
	ELECTRONICS CO		complied with IEC60384-14		ÎVDE Î
	LTD				
Y-Capacitors (CY1)	MURATA MFG CO	KX	Rated max.2200pF, Min 250V,	FOWX2/8	UL/cUL
(Optional)	LTD		105degC, marked with Y1,		(E37921)
			complied with IEC60384-14		/VDE
Y-Capacitors (CY1)	MITSUBISHI	AH	Rated max.2200pF, Min 250V,	FOWX2/8	UL/cUL
(Optional)	MATERIALS CORP		105degC, marked with Y1,		(E89615)
			complied with IEC60384-14		/VDE
Y-Capacitors (CY1)	HAOHUA	CT7	Rated max.2200pF, Min 250V,	FOWX2/8	UL/cUL
(Optional)	ELECTRONIC CO		105degC, marked with Y1,		(E233106)
	LTD		complied with IEC60384-14		/VDE
Y-Capacitors (CY1)	JERRO	JX	Rated max.2200pF, Min 250V,	FOWX2/8	UL/cUL
(Optional)	ELECTRONICS		105degC, marked with Y1,		(E333001)
	CORP		complied with IEC60384-14		/VDE
Y-Capacitors (CY1)	CAPATRONICS	B1	Rated max.2200pF, Min 250V,	FOWX2/8	UL/cUL
(Optional)	ELECTRONICS		105degC, marked with Y1,		(E252212)
	(KUNSHAN) CO		complied with IEC60384-14		/VDE
	LTD				
Y-Capacitors (CY1)	HONGZHI	Υ	Rated max.2200pF, Min 250V,	FOWX2/8	UL/cUL
(Optional)	ENTERPRISES LTD		105degC, marked with Y1,		(E192572)
			complied with IEC60384-14		/VDE
Line Filter (LF1)	BOAM	GT-93020-LF1	130 degree C (OBMW2) coil		
(optional)			wound on a core.		
- Core			Ferrite core, approximate		
			overall 12.7 by 7.9 by 5 mm.		

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- Wire	JIANGSU DARTONG	2UEW	MW 75-C, 130 Degree C	OBMW2	UL/cUL
	M & E CO LTD				(E237377)
- Wire (Alternate)	SHANDONG SAINT	UEW	MW 75-C. 130 Degree C	OBMW2	ÚL/cUL
- (,	ELECTRIC CO LTD	-			(E194410)
Line Filter (LF1)	Various	Various	130 degree C (OBMW2) coil		
(optional)			wound on a core.		
Transformer (T1)	SHAN DONG BOAM	GT-0324001	(OBJY2) Class B		
	ELECTRIC CO LTD	01 002 1001			
- Insulation system used	SHAN DONG BOAM	BOAM-01	Class 130 (B) Insulation	OBJY2	UL
in T1	ELECTRIC CO LTD		System.		(E252329)
- Primary winding used	Various	Various	Polyurethane with or without	OBMW2	ÚL Í
in T1			overcoat Polyamide, 130 degC		
			Min. Type MW-75 or MW-28.		
- Secondary winding	FURUKAWA	TEX-E	Rated 130 degC Triple	OBJT2	UL
used in T1	ELECTRIC CO LTD		insulated wire		(E206440)
- Primary winding used	Various	Various	Polyurethane with or without	OBMW2	ÚL Í
in T1			overcoat Polyamide, 130 degC		
			Min. Type MW-75 or MW-28.		
- Insulation Tape used in	3M COMPANY	1350F-1;	Rated 130 degC.	OANZ2	UL (E17385)
T1	ELECTRICAL	1350T-1	Ŭ		
	MARKETS DIV				
	(EMD)				
- Insulation Tape used in	JINGJIANG YAHUA	PZ CT	Rated 130 degC.	OANZ2	UL
T1	PRESSURE		5		(E165111)
	SENSITIVE GLUE				
	COLTD				
- Potting compound	MOMENTIVE	TSE3331	Rated 105 degC, min V-0, min	QMFZ2	UL (E56745)
(optional)	PERFORMANCE		1.0 mm thickness		- ()
()	MATERIALS JAPAN				
	LLC				
Transformer (T1)	GLOBTEK INC	GT-0324001	(OBJY2) Class B.		
(Alternate)	_				
- Insulation system used	GLOBTEK INC	GTX-130-TM	Class 130 (B) Insulation	OBJY2	UL
in T1 (Alternate)			System.		(E243347)
- winding used in T1	GREAT LEOFLON	TRW(B)	Rated 130 degC. Triple	OBJT2	
		• • • • •			

Page 10 of 13

	LTD					
- Insulation Tape used in T1 (Alternate)	CHANG SHU LIANG YI	LY-XX	Rated 130 degC.	OANZ2	UL (E246820)	
- Insulation Tape used in T1 (Alternate)	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	Rated 130 degC.	OANZ2	UL (E246950)	
- Insulation Tape used in T1 (Alternate)	SYMBIO INC	35660Y	Rated 130 degC.	OANZ2	UL (E50292)	
- Insulation Tape used in T1 (Alternate)	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PZ series CT series	Rated 130 degC.	OANZ2	UL (E165111)	
- Insulation Tape used in T1 (Alternate)	3M	1350F(#),1350T- 1,44	Rated 130 degC.	OANZ2	UL (E17385)	
- Insulation Tape used in T1 (Alternate)	BONDTEC PACIFIC CO LTD	370S	Rated 130 degC.	OANZ2	UL E175868	
- Potting compound used in T1 (Alternate) (optional)	WUJIANG TAIHU INSULATING MATERIAL CO LTD	TH 960	Rated 155 degC, min 1.58 mm thickness, see attachment ID7- 06			
Transformer (T1) (Alternate)	WUXI ZHONGTONG ELECTRONICS CO LTD	GT-0324001	(OBJY2) Class B.			
- Insulation system used in T1 (Alternate)	WUXI ZHONGTONG ELECTRONICS CO LTD	ZT-130	Class 130 (B) Insulation System.	OBJY2	UL (E315275)	
- winding used in T1 (Alternate)	GREAT LEOFLON INDUSTRIAL CO LTD	TRW(B)	Rated 130 degC, Triple insulated wire.	OBJT2	UL (E211989)	
- Insulation Tape used in T1 (Alternate)	CHANG SHU LIANG YI	LY-XX	Rated 130 degC.	OANZ2	UL (E246820)	
- Insulation Tape used in T1 (Alternate)	JINGJIANG JINGYI ADHESIVE PRODUCT CO LTD	JY25-A	Rated 130 degC.	OANZ2	UL (E246950)	
- Insulation Tape used in T1 (Alternate)	SYMBIO INC	35660Y	Rated 130 degC.	OANZ2	UL (E50292)	
- Insulation Tape used in	JINGJIANG YAHUA	PZ series CT	Rated 130 degC.	OANZ2	UL	

Page 11 of 13

T1 (Alternate)	PRESSURE SENSITIVE	series			(E165111)	
	GLUE CO LTD					
- Insulation Tape used in T1 (Alternate)	3M	1350F(#),1350T- 1,44	Rated 130 degC.	OANZ2	UL (E17385)	
- Insulation Tape used in T1 (Alternate)	BONDTEC PACIFIC CO LTD	370S	Rated 130 degC.	OANZ2	UL E175868	
- Potting compound used in T1 (Alternate) (optional)	WUJIANG TAIHU INSULATING MATERIAL CO LTD	TH 960	Rated 155 degC, min 1.58 mm thickness, see attachment ID7- 06			
Opto-couplers (U1)	EVERLIGHT ELECTRONICS CO LTD	EL817	Rated min. 110degC Provide min 5000Vac isolation test voltage rating.	FPQU2/8	UL/cUL (E214129)	
Opto-couplers (U1) (Alternate)	COSMO ELECTRONICS CORP	K1010, KP1010	Rated min. 115degC Provide min 5000Vac isolation test voltage rating.	FPQU2/8	UL/cUL (E169586)	
Opto-couplers (U1) (Alternate)	LITE-ON TECHNOLOGY CORP	LTV-357T, LTV- 357, LTV817CN, LTV-817	Rated min. 115degC Provide min 3750Vac isolation test voltage rating for LTV-357T and LTV-357, 5300Vac isolation test voltage rating for LTV-817CN.	FPQU2/8	UL/cUL (E113898)	
Opto-couplers (U1) (Alternate)	FAIRCHILD SEMICONDUCTOR CORP	H11A817B, F0D817B	Rated min. 110degC Provide min 5000Vac isolation test voltage rating.	FPQU2/8	UL/cUL (E90700)	
Opto-couplers (U1) (Alternate)	SHARP CORP ELECTRONIC COMPONENTS AND DEVICES GROUP	PC817	Rated min. 100degC Provide min 5000Vac isolation test voltage rating.	FPQU2	UL (E64380)	
Opto-couplers (U1) (Alternate)	BRIGHT LED ELECTRONICS CORP	BPC-817 BPC-817M BPC-817S	Rated min. 100degC Provide min 5000Vac isolation test voltage rating.	FPQU2	UL (E236324)	
Heat Sink - HS1			Aluminum. Approximate overall dimension 25mm by 13mm by 8mm, Min1.0mm thick, secured to PWB by soldering.			

Page 12 of 13

Report Reference #

Transistor Q1			Min.20A, Min.200V			
DC output cord	Various	Various	Min. 20 AWG, min. VW-1, Min.80°C, min. 60V, max length 3.05m	AVLV2	UL	
DC output cord (Alternate)	Various	Various	Min. 20 AWG, min. VW-1, Min.80°C, min. 60V, max length 3.05m, type SPT-1, SPT-2	ZJCZ	UL	
Tube for wrapping DC out cord	Various	Various	Min 150V, min VW-1, min 125 deg C.	YDPU2	UL	
Label (Optional)	various	various	Rated min 95 deg C. Suitable for use on the plastic enclosure.	PGDQ2	UL	
PWB	Various	Various	Min. V-1, 130°C	ZPMV2	UL	
Adhesive for security only (optional)	Various	Various	Min. V-1, 130°C	QMFZ2	UL	
Insulating tape wrapped on C1 (optional)	Various	Various	Min. 2 layers for reinforce insulation	OANZ2	UL	

Enclosures

Type	Supplement Id	Description
Photographs	3-01	Overall View 1
Photographs	3-02	Overall View 2
Photographs	3-03	Top View
Photographs	3-04	Bottom View
Photographs	3-05	Output Connector Pin View
Photographs	3-06	Internal Overview
Photographs	3-07	Internal Enclosure View
Photographs	3-08	PWB Components Side View 1
Photographs	3-09	PWB Components Side View 2
Photographs	3-10	PWB Components Side View 3
Photographs	3-11	PWB Components Side View 4
Photographs	3-12	PWB Traces Side View
Diagrams	4-01	Spec. of Line Choke (LF1)
Diagrams	4-03	Spec. of Transformer (T1) Type GT-0324001from SHAN DONG BOAM ELECTRIC CO LTD
Diagrams	4-04	Spec. of Transformer (T1) Type GT-0324001 from GLOBTEK INC
Diagrams	4-05	Spec. of Transformer (T1) Type GT-0324001 from WUXI ZHONGTONG ELECTRONICS CO LTD
Schematics + PWB	5-01	Schematics
Schematics + PWB	5-02	PWB layout
Manuals	6-01	Specification
Miscellaneous	7-01	Production Dimensions
Miscellaneous	7-02	Heat Sink Specification
Miscellaneous	7-03	Label Drawing (Type 1)
Miscellaneous	7-04	Label Drawing (Type 2)
Miscellaneous	7-05	Output Card Specification
Miscellaneous	7-06	Spec. of Potting compound

PHO-02





PHO-05





PHO-07















		零	件承认书				
		Materi	al Approva	ι <u>1</u> .			
	制造商: Manufacturer		山东宝岩电气有限。	公司			
• • • •	供应商: Supplier		山东宝岩电气有限之	公司 公司			
•	原厂型号: Original Type	anna an					
•	名称: Part_Name						
	品名/规格: SPEC	滤波器(Filter) T12.7*7.7*4.95 M10K 3.5mH MIN GT-93020-LF1					
	GlobTek 料号: GlobTek P/N	703-01200254					
	适用典型机种 Model No.		GT-93020-0324				
	版本: Edition No.		A. 0				
	Safety Approval Stamp	QA Approval Stamp	RD Approval Stamp	Production Approval Stamp			
	2013.1.5]	13.7.202	Blue 451'13				
			<u></u>				

DIA-01

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	Change Record							
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Form No:GTFMR03002 A.1



GlobTek[®] (Suzhou) Co., Ltd

医疗、资讯、车载、特种电源

零件承认书							
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丽 31 件							

		SPECI	FICATION	
CUSTC	OMER	GLOBTEK (SUZHOU) CO. LTD	PATR NAME	INDUCTOR
MODEL	_ NO	TR12.7×7.9×5C	PART NO.	703-01200254 (R)
1. DIN		mm)	3#	3.7±1.0 1.85±0.5 1.02±0.5 4#
	4# 1# <u>6.7</u> <u>10.0</u>	2# 3# <u>1±0.5</u> <u>2±0,5</u> <u>4,4</u>	2±0.5 .±0.5	74±0.5
2. SC	HEMATIC			
		#40 N1 2UEWФ0.35 32TS REF #10	$\left \begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & &$	35
		* THE "λ" MARK	S ARE START POIN	DETEK SUZIE
SPEC NO). KF-13	012101-A DATE 2013	/01/21 SHEET NO	
NO.	DATE	REVISION CHI	ECKED DESIGN	CH花花文 件 APPROVAL 发行音
			刘振健	黄丽红 潘秀丽
		SHANDONG BOAM	ELECTRIC CO.,LT	D

SPECIFICATION

CUSTOMER	GLOBTEK (SUZHOU) CO. LTD	PATR NAME	INDUCTOR
MODEL NO	TR12.7×7.9×5C	PART NO.	703-01200254(R)

3、WINDING SPECIFICATION

NO	PIN NO	WIRE	TURNS	WINDING METHOD
N1	1-4	2UEW Φ0.35	32 (REF)	SOLENOID
N2	2-3	2UEW Φ0.35	32 (REF)	SOLENOID

4、 LECTRICAL SPECIFICATION

NO	ITEM	TERMINAL	SPECIFICATION	TEST CONDITION
1	INDUCTANCE	<u>1-4</u> 2-3	3.5mH MIN	1KHz,0.25V
2	2 Hipot 1,4-2,		AC1200V	5mA 2S

5、LIST OF MATERIAL

1	CORE	TR12.7×7.9×5C A10	YUEFENG ELECTRONICSCO.,LTD OR equiv	
		JIANGSU DARTONG M&E CO.,LTD	E237377	
2	2 WIRE	2UEW φ 0.35	SHANDONG SAINT ELECTRIC	F104410
			CO.,LTD	E194410

							CHIER S	
SPEC	NO.	KF-130	012101-A	DATE	2013/01/21	SHEET NO	安裕文 4	2 –
NO.		DATE	REVIS	SION	CHECKED	DESIGN	CHE编译章	APPROVAL
						刘振健	黄丽红	诸秀丽

(1) 由

SHANDONG BOAM ELECTRIC CO.,LTD

SPECIFICATION

CUSTOME	ER	GLOBTEK (SUZHOU) CO. LTD		D	PATR	TR NAME		INDUCTOR	
MODEL 1	NO	TR12.7	×7.9×5C		PAR	T NO.	. 70	3-012	200254(R)
5 111	CAPD						I		
$3\sqrt{0L}$	CARD		Ма	agnet Wire -	Component				
	See General	Information for Mag	et Wire - Compo	pept					
	JIANGSU D	ARTONG M & E CO L	тр					E23	7377
	1 DARTONG HUAIAN ECC HUAIAN, JIA	RD)NOMY DEVELOPMENT NGSU 223238 CHINA	ZONE						
		Mti	Mark	PC	Coat Type	oc	ANSI	Temp	
	&UEW (1) Pr			Polyureth	ane	-	MW 79-C	155	
	&EIW		(1)	Polyester-in	nide	-	MW 75-C MW30#	130 180	
	&UEW	,	UEW/180	Polyureth	ane	—	@ 	200 180	
	&EI/A	1WV	(1)	Polyester-in	nide Polya	mide-imide	MW35#, MW73#	200	
			м	lagnet Wire	- Componen	t			
	<u>See General</u>	Information for Mag	<u>net Wire - Compo</u>	nent					
	SHANDONG YUNSHAN RI	SAINT ELECTRIC C	OLTD					E1	94410
	HIGH-TECH XINTAL, SHA	DEVELOPING ZONE ANDONG 271200 CHII	NA			3			
		Mtl Ds	g	B.C	Coat Typ	OC.	ANSI Type	τī	
	EIW//	ΑI.		Pol	rester: .imide.;	Polyamide- imide	М	W35 200	
	UÉŴ; EIM	QA		Polyur	ethane.	·	M	w79. 155 w30 180	
	UEW/	180. 0A/180. UEW/1	80 Litz. 04/180 Li	itz Polyur	imide.	-	••• •••• •••• •••• •••• •••• •••	W82 180	1
	UEW/	155, QA/155, UEW/1	55 Litz, QA/155 Lì	itz Polyur	ethane		Mw	MW79# 155	
	UEw/	130, QA/130, UEW/1	30 Litz, QA/130 Li	itz Polyur	ethane {	-	MW	75# 130	
							CIBIT)电 X SU	
SPEC NO.	KF-130	012101-A	DATE	2013/01	/21 SH	IEET NO		3.01.31	3 2
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SHANDONG BOAM ELECTRIC CO.,LTD



GlobTek[®] (Suzhou) Co., Ltd

医疗、资讯、车载、特种电源

零件承认书 Material Approval

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制造商:	山东宝岩电气有限公司					
Manufacturer						
供应商:	山东宝岩电气有限公司					
Supplier						
原厂型号:	/					
Original Type	,					
名称:	~ ~ 下器					
Part Name						
品名/规格:	CORE: DS166125 东磁 PRI: 8TURNS SEC:16TURNS					
SPEC	GT - 03240001					
GlobTek 料号:	320-00972501					
GlobTek P/N						
适用典型机种 Model No.	GT-93020-0324					
版木:	A. 1					
Edition No.	· • • •					

Safety	QA	RD	Production
Approval Stamp	Approval Stamp	Approval Stamp	Approval Stamp
w15.2.22	Sumy 2013.2.22	BULLE 2/20'13	

Form No:GTFMR03002 A.1

File E341351

DIA-03



GlobTek' (Suzhou) Co., Ltd

医疗、资讯、车载、特种电源

修改变更记录表 Change Record

变更内容 版次 核实 日期 批准 Change Contents REV. Checked Date Approved Description 2013Blue 3/20/13 加了屏蔽层和绝缘胶带 1 17 2.20 -9.2

Form No:GTFMR03002 A.1



GlobTek[®] (Suzhou) Co., Ltd

医疗、资讯、车载、特种电源

零件承认书						
ſ	Mate	erial Approva	al			
制造商:						
Manufacturer						
供应商:		山东宝岩电气有限公司				
Supplier		SHAN DONG BOAM C	O.,LTD			
供应商料号:		320-00972501 (I	R)			
Supplier P/N						
名称:		TRANSFORMER				
Part Name						
品名/规格:						
SPEC						
GlobTek料号:		320–00972501 (R)				
GlobTek P/N	GlobTek P/N					
		A				
版本						
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作成:	确认:		│承认: ▲ Anneous			
	Check		Approval			
刘振健		黄丽红	潘秀丽			
PS承认章:	RD承订	大章:	QCAR (M) BAR			
Approval Stamp	Approv	val Stamp	Ap 1 2013.02.22 受控文件 发行章			

SPECIFICATION



SHANDONG BOAM ELECTRIC CO., LTD

CUSTO	MER	GLOBTH	EK (SUZHOU) CO. LT	Ď	РАТ	R	NAME	TRA	NSFORMER
MODEL	, NO]	DS166125		PA	ART	NO.	320-0)0972501 (R)
								1	
3、1	LECTR	ICAL SPE	CIFICATION	1					
NO		ITEM	TERMINAL	SF	PECIFI	CAT	ION	TEST CO	NDITION
			16		4.6uH	± 20	0%	1KHz,0.25	5V
1	INI	DUCTANCE	25		4.6uH	± 20	0%	1KHz,0.25	5V
2	HI-I	POT TEST	COIL-COIL		3000	V AC		1mA	., 18
4、]	LIST OF	F MATERI	AL						
1	CORE	, ,	DS166125	H M Ol	HUZHOU AGNET R EQUIV	J OELE √	CTRICITY	KEDA CO.,LTD	
2	WIRE	5 7	TEX-Ε Φ 1.0 TEX-Ε Φ 0.65 TEX-Ε Φ 0.60	I	FURUKA ANGSU	AWA I DAR'	ELECTRIC TONG M&I	CO.,LTD E CO.,LTD	E206440 E237377
			2UEW \$\overline{0.30}		SHANI	DONG C	SAINT EL	ECTRIC	E194410
3	Coppe tape	r	0.05×32mm		TAE I	HWA	INDUSTRL	AL CO	
4	OUTE TAPE	R	0.025×25mm PZ-281		JIN PRESS	NGJIA SURES C	NG YAH SENSITIVE O.,LTD	UA CGLUE	E165111
5	EPOXY	Y	SK-031F	SI	E KYE C	НЕМ	ICAL CO		
								(新州) 4	
SPEC NO.	KF-	-13020501-A	DATE	2013/0	2/05	SHE	et no. 🖌	OBIEN	SUZIE
NO. DA	TE	R	EVISION	CHEC	KED	DE	SIGN	CHECK 2013 02	APPLOVAL
						刻	振健	2013.02 黄 新增之 发行章	# 潘秀丽
		SHA	NDONG BC	⊥)AM E	LECT	RIC	CO.,LI	R	

CUSTOMER	GLOBTEK (SI	JZHOU) CO. LTD	PA	ATR N	AME	TRA	NSFORMER	
MODEL NO	DS1	66125		PART	NO.	320-0	00972501 (R)	
5、 UL CARD OBJT2.E206440 Single- and Multi-layer Insulated Winding Wire - Component Page Bottom								
5.00.00.00.00.00.00.00.00.00.00.00.00.00	Single- and Multi-layer Insulated Winding Wire - Component							
<u>See Gener</u>	al Information for Single	- and Multi-layer	Insulated Windi	ng Wire - Con	nponent			
FURUKAW MAGNET W 2-2-3 MAR ^I CHIYODA-W	A ELECTRIC CO LTD IRE DIV JNOUCHI (U, TOKYO 100-8322 JAR	PAN					E206440	
Cat. Nos. F 29 AWG (0	SX-E, SX-E, basic insula [.] 08 - 0.30 mm).	tion rated 120° C	(Class E), 354 \	peak for Info	ormation Tec	hnology Equip	ment, 40 -	
Cat. No. FV Technology	/X-E, supplementary ins Equipment, 40 - 29 AW	ulation or basic ir 'G (0.08 - 0.30 mr	nsulation rated : m).	.20° C (Class	E), 354 V pe	ak for Informa	ation	
Cat. Nos. T Equipment	EX-E, TEX-EA, reinforced 32-18 AWG (0.20 - 1.0	insulation rated mm).	130° C (Class B), 1.41 kV pea	ak for Inform	ation Technolo	ogy	
Cat. No. TE AWG - 21 A	X-ELZ, reinforced insula WG (7strands each 0.1	tion rated 130° C D mm - 7 strands	:, (Class B), 1.41 each 0.30 mm).	kV peak for I	information T	'echnology Eq	uipment, 30	
Cat. No. TE 33 - 19 AW	X-ECEW3, reinforced in: G (0.18 - 0.912 mm).	sulation rated 130	D° C (Class B), 1	.41 kV peak fi	or Informatic	n Technology	Equipment,	
Cat. No. TE peak for In	X-FS, reinforced insulati formation Technology E	on rated 155° C (quipment, 32-18 /	(Class F), 250 V AWG (0.20 - 1.0	rms for medic mm).	al and denta	I equipment, a	and 1.41 kV	
Cat No. TE) 18 AWG (0	(-BS, reinforced insulati) 20 - 1.0 mm).	on rated 130° C (Class B), 1.41 k	/ peak for Inf	ormation Tec	hnology Equip	oment, 32-	
Cat. Nos. F mm).	SX-B, basic insulation ra	ited 130° C (Clas:	s B), 354 V peak	for Informati	on Technolo(gy Equipment,	0.19 - 0.11	
Marking: Ci the wire, a	ompany name and mate nd the Recognized Com	rial designation o ponent Mark Magne	on smallest unit (et Wire - Compo	container, spo Ment	ool or on a ta	ig attached to	the end of	
<u>See Genera</u>	Linformation for Magnet	<u> Wire - Component</u>						
SHANDQNG Yunshan Ri High-Tèch	SAINT ELECTRIC CO L' D DEVELOPING ZONE	TD					E194410	
XINTAI, SHA	ANDONG 271200 CHINA		Coat	Тур	1			
	Mti Dsg		BC	OC	-	лиэт Гуре	TI	
EIW/	#1		Polyester- Imide.	Polyamidi imia	e- le	MW35	2UU	
UÉŴ, PIW	QA		Polyurethane Polyester-	 معد محمد محمد محمد المشتقية المعد الم		:MW79 : MW30	155	
1 (E \\/	180. OA/180. UEW/180.1	tz, 0A/180 Lity	imide. Rolvurethane					
UEW/	UEW/155, QA/155, UEW/155 Litz, QA/155 Litz				-	Att .		
UEW/	130, QA/130, UEW/130 L	itz, QA/130 Litz	Polyurethane			BTEX-	SUZZE	
SPEC NO. KF	-13020501-A	DATE 2	2013/02/05	SHEET	'NO.	8	2 2 2	
NO. DATE	R	EVISION	CHECKED	DESI	GN 🌾	CHEGEK02	2.22 APPROVAL	
				刘振	·健	受控文	借 潘秀丽	
	SHAND	ONG BOA	AM ELEC	TRIC C	CO.,LT	\sim		

GlobTek	SPECIFICATION
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Company Name	GlobTek(Suzhou)					
Power supply Part no: Transformer Part no:	GT-93020-0324-T1() OSP-320-00972501(R)	Rev: 1.1				
Description:	High Frequency Transforr	ner				
Issued Date:	2013-4-10					
Approval sheet and Sign here						
Signature:						
Comments:						
		Please return on copy after approval				
	GlobTek(S	uzhou)				
Building 4, No 76	JinLing East Road,Suzhou ,Inc	lustrial Park, Suzhou, Jiang Su, 215021 China				
	Tel: +86 512 62	?79 0301-105				
	mail: Luke.li@	globtek.cn				

File F341351		DIA-04	
产品编号 Article No.	OSP-320-00972501(R)		

		变更记录 Revision History			
变更日期	变更版本	变更内容	制作	审核	承认
Date	Rev. No.	CONTENTS	Prepared by	Checked	Approved
2013-4-10	Rev 1.1	New edition	Luke.Li		

制定 2013 年 4 月 10 日	环球特科(苏州)有限公司	制作	Lukoli	承认	Lukoli
Made 2013 Y 4 M 10 D	GlobTek(Suzhou) Co. Ltd.	Prepared by	Luke.ii	Approved by	Luke.ii



File F341351		DIA-04	
产品编号 Article No	OSP-320-00972501(R)		

2. Electrical Test

Electrical Parameter	Winding	Nominal Value	Max	Min	Test condition
Inductance	1-6	4.6uH+/-20%	5.52uH	3.68uH	1kHz/0.25V
	2-5	4.6uH+/-20%	5.52uH	3.68uH	1kHz/0.25V
Resistance					
H\/ Tost		3000VAC			1mA 1S
nv lest					
Turne Patio					
TUMS NALIO					

制定 2013 年 4 月 10 日 Made 2013 Y 4 M 10 D	环球特科(苏州)有限公司 GlobTek(Suzhou) Co. Ltd.	制作 Prepared by	Luke.li	承认 Approved by	Luke.li

File	- F3	41?	351

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Arti

品编号	OSP 320 00072501(P)	
cle No.	USF-320-00972501(h)	

3. 绕线规格:

Winding Information:

顺序 Order	PIN 脚 PIN No	铜线 Copper wire	圈数 Turns	线槽 Slot	方向 Direction	备注 Bemarks
Order		Copper wire	Tums	OIOL	Direction	Tiemanto
		磁芯包1层胶	带			
N1	1-6	TEX-E 1.0mm Wire	8			
N2	2-5	TEX-E 0.60mm Wire	8			
N2	3-4	TEX-E 0.65mm Wire	16			
		3 层 30mm 绝缘刖	交带			
1 圈 32mm 自沾铜箔						
2 层 30mm 绝缘胶带						
		铜箔引线连接至	PIN4			



注意事项(Note):

1. 用环氧树脂固定铜线

Fix the wires with the Epoxy.

2. 均匀绕线。

The winding must be distribuited in the whole surface of the bobbin.

3. 用绝缘垫片隔开初次级,用胶水固定隔片两端。

制定 2013 年 4 月 10 日 Made 2013 Y 4 M 10 D	环球特科(苏州)有限公司 GlobTek(Suzhou) Co. Ltd.	制作 Prepared by	Luke.li	承认 Approved by	Luke.li

GlobTek[®] (Suzhou) Co., Ltd

	零件承认书			
		Ma	iterial Approval	
制造商:		无锡中通电	子有限公司	
Manufacturer				
供应商:				
Supplier				
供应商料号:				
Supplier P/N				
名称:				
Part Name				
品名/规格:		GT-930	120-0324-T1	
SPEC		G1-550	20-0024-11	
│GlobTek料号:				
GlobTek P/N				
Edition No:		REV:A		
	1.			
作成: Made bv	│确认: │Check		承认: Approval	
DS 承订 音。		- 辛 .	00 承订音.	
Approval Stamp	Approva	al Stamp	Approval Stamp	



File	F34	1351	
			-

File E341351		DIA-05	
产品编号	220,00072501(P)		
Article No.	520-00972301(R)		

2. Electrical Test

Electrical Parameter	Winding	Nominal Value	Max	Min	Test condition
	1-6	4.6uH+/-20%	5.52uH	3.68uH	1kHz/0.25V
	2-5	4.6uH+/-20%	5.52uH	3.68uH	1kHz/0.25V
Inductance					
Resistance					
HV Test		3000VAC			1mA 1S
Turne Detie					
Tums nalio					

制定 2013 年 4 月 10 日 Made 2013 Y 4 M 10 D	制作 Prepared by	承认 Approved by	

Fi	ile	F3	41	35	1
					_

DIA-05

产品编号	5	
Article No.		
3. 绕线规格:		

Winding Information:

顺序 Order	PIN 脚 PIN No.	铜线 Copper wire	圈数 Turns	线槽 Slot	方向 Direction	备注 Remarks
		磁芯包 1 层胶	带			
N1	1-6	TEX-E 1.0mm Wire	8			
N2	2-5	TEX-E 0.60mm Wire	8			
N2	N2 3-4 TEX-E 0.65mm Wire 16					
		3 层 30mm 绝缘刖	交带			
1 圈 32mm 自沾铜箔						
2 层 30mm 绝缘胶带						
		铜箔引线连接至	PIN4			



注意事项(Note):

1. 用环氧树脂固定铜线

Fix the wires with the Epoxy.

2. 均匀绕线。

The winding must be distribuited in the whole surface of the bobbin.

3. 用绝缘垫片隔开初次级,用胶水固定隔片两端。

制定 2013 年 4 月 10 日 Made 2013 Y 4 M 10 D	制作 Prepared by	承认 Approved by	









	17/201-01
PROPRIETARY INFORMATION: PROPRIETARY OF GLOBTEK, NC. ANY REPRODUCTION, DISCLOS	SURE OR USE OF THIS DRAWING, IN WHOLE OR IN PART, IS HEREBY PROHIBITED EXCEPT AS SPECIFIED IN WRITING BY GLOBTEK, INC.
1. NOTES:	
DIMENSIONS ARE IN MM UNLESS SPECIF	
	STAR STAR
	2 Amp RMS MAX
	<u>2</u> Amp Rws wax 17-63 Hz CRoHS
	24 VDC
OUTPUT CURRENT:	125 mA CONTINUOUS, 1000mA PEAK FOR 1mS REPEATING
	EVERY 4 mS FOR THE NEXT 5 MINUTES.
OUTPUT POWER (RATED):	3 WATTS CONTINUOUS, 24 WATTS PEAK
OUTPUT LOAD REGULATION:	+/- 5% MEASURED AT O/P CONNECTOR
LINE VOLTAGE REGULATION:	+/- 1%TYPICAL MEASURED AT THE OUTPUT CONNECTOR
OUTPUT RIPPLE (PEAK TO PEAK):	240 mV PEAK TO PEAK. MEASURED AT 20 MHz
	BANDWIDTH WITH 0.1 µF CERAMIC CAPACITOR IN PARALLEL WITH 10 µF
	OF OUTPUT CONNECTOR AT NOMINAL LINE
	5% MAXIMUM 1ms TYPICAL RECOVERY TIME FOR 25% STEP LOAD
TURN-ON DELAY:	1 SECOND. MAXIMUM
HOLD-UP TIME:	20 mS HOLD-UP TIME AT RATED POWER(2.4W/100mA) ACCEPTANCE CRITERIA 'A'
	40 mS HOLD-UP TIME WHEN LOAD EQUALS(1.34W/56mA) ACCEPTANCE CRITERIA 'A
SWITCHING FREQUENCY:	65 KHz TYPICAL
PROTECTION	
OVER-VOLTAGE:	PROTECTED WITH ZENER CLAMP ACROSS OUTPUT
	PROTECTED, UNIT WILL RECOVER UPON REMOVAL OF FAULT
	INPUT LINE FUSING
DIELECTRIC WITHSTAND VOLTAGE	1500 VAC FROM PRIMARY TO SECONDARY
	<3.5 mA AT 34VAC INPUT VOLTAGE
INGRES PROTECTION (PENDING):	IP21
APPROVALS	
	SAFETY DOCUMENTS ARE AVAILABLE ONLINE BY CLICKING THIS LINK.
SAFETY APPROVAL (PENDING):	EN60950-1 SAFETY FOR INFORMATION TECHNOLOGY EQUIPMENT
	UL60950-1, CUL TO 22.2 #60950-1 1st EDITION, UKRAINE,
EMI (PENDING):	COMPLIES WITH EN55022 CLASS BIAND FCC PART 15 CLASS B, WHEN
	TESTED TO COMPLY WITH EN55022:1998 A1:2000 EN610003-2 E610003-3
CE MARK (I ENDING).	INCLUDING EN61000-4-2 (CONTACT DISCHARGE TO +8KV
	AIR DISCHARGE TO ±15KV), EN61000-4-3, EN61000-4-4 (±2KV, ±4KV LINE,NEUTRAL),
	EN61000-4-5 (±1KV, ±2KV DIFFERENTIAL MODE),
	EN61000-4-11 (PER ATLAS COPCO SPECS, EDITION Ø, TABLE 2.4.11 AND 2.4.12)
EFFICIENCY:	75% MINIMUM, MEASURED AT FULL LOAD, 24VAC INPUT
OTHERS	
MTBF:	200.000 HOURS AT 25°C AMBIENT TEMPERATURE
OPERATING TEMPERATURE:	-20°C TO +65°C AMBIENT TEMPERATURE
HUMIDITY:	0% TO 90% RELATIVE HUMIDITY
STORAGE TEMPERATURE:	-30°C TO +70° C
RoHS:	COMPLIES WITH EU 2002/95/EC AND CHINA SO/T 11363-2006
GiobTek; inc.	Drawing Title: DIN RAIL SWITCHING POWER SUPPLY, 24 VAC
www.glodiek.com	j3 WATTS CONTINUOUS (24 WATTS PEAK), 24VOLTS @ 0.125 (1.0) AMPS

MODEL NO: GT-93020-0324

PART NO: WR24ACWI125MF10N(RV)

186 Veterans Drive, Northvale, NJ 07467

Tel. 201-784-1000 Fax 201-784-0111

REV L



File E341351

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5. OUTPUT CORD AND CONNECTOR:		
ACTORE CONNECTOR'S, OVERWOLDS, FERRITES, WAT VAN		
CABLE TYPE		
		300V 80°C
CABLE LENC	STH	200 ± 30 mm
WIRE GAUG	E (AWG)	20 AWG
CONNECTOR	R OVERMOLD COLOR	BLACK
CABLE COLO	DR	BLACK
FERRITE TY	PE / DIMENSION	14.2*28.5*8.0 mm
FERRITE # C	FTURNS	1
FERRITE DIM	IENSION FROM PLUG	30±5 mm
OVER MOLD	ORIENTATION	STRAIGHT
PLUG DIMEN	ISIONS	SEE BELOW
CONNECTOR	R N	MOLEX MICROFIT FEMALE 10 PIN
		P/N 43025-1000 or EQUIVALENT &
		2 EACH CRIMP TERMINAL
		P/N 43030-0001
STRIP LENG	ТН	50±5 mm
TIN LENGTH		5±0.5 mm
StERMM		10 5 6 1 PIN 1: N/C PIN 2: N/C PIN 3: N/C PIN 4: N/C PIN 5: N/C PIN 6: V- PIN 7: V+ PIN 8: N/C PIN 9: N/C PIN 10: N/C
GobTek; Inc.	2 WATTS CONTINUOUS (24 WATTS DEAL)	
www.yloblek.com 186 Votorane Drivo, Northyalo, NL07467	MODEL NO: OT 02020 0224	24VULTS @ 0.125 (1.0) AMPS
100 VELETATIS DITVE, NUTLIVALE, NJ U/40/	DART NO: MR24ACM/125ME40N	
151. 201-704-1000 Fax 201-704-0111		(INV) KEVL



Add:江苏省吴江市汾湖经济开发区北厍工业园 Tel:0512-63249877 Fax:0512-63249866 www.taihucn.com taihucn@vip.163.com

TH-960 环氧树脂包封胶(F级155度)

产品描述:

TH-960 是一种室温快速固化双组份环氧胶黏剂。在室温(23℃)下,5~10 分钟固化定位,1小时达到可用程度。完全固化后具有耐温性好、收缩率小等特点,具有一定的防水、防弱酸碱、防油等特点。广泛适用于维修及粘接工作,如金属、塑料、瓷器、木材、玻璃等材料。

产品特性:

- ◆ 室温快速固化定位
- ◆ 较好的防流挂件与耐热件
- ◆ 操作简易、使用方便

使用方法:

1. 粘接、维修表面必须洁净、干燥及不带油性。光滑表面应采用打磨处理。

2. 按 A: B-1:1 比例称取两组份后,迅速均匀的混调在一起,直至颜色一致(表明已混 合均匀),并涂在已被处理好的粘接表面,立即叠合工件,10分钟左右基本定位,1小时后 即可转入下道工序。

3. 双管包装则采取打胶枪进行混胶, 打胶。

主要事项:

1. 调胶应尽可能使两组份等量,切勿使任一组粉过量太多,避免强度降低,固化不完全。

- 2. 混胶须迅速、均匀,尽可能在 30 秒内将两组份混合均匀,并现配现用。
- 3. A、B两组份用后须盖严,以免产品吸水而影响粘接强度。
- 4. 手上或被粘接物上多余的胶,未固化前可用酒精清洗干净。
- 5. 双臂打胶应连续打胶,以免混合头处固化堵塞。如遇堵塞清更换混合头即可。
- 6. 严防儿童接触,切勿入口。
- 7. 详细安全技术说明可参见其 MSDS。

技术参数:

表1物理参数

测试项目(单位)	测试方法 (条件)	A 组份	B组份
外观颜色	日测	白色均匀胶体	浅黄色均匀胶体
密度(g/cm³)	比重杯(23℃)	1.10~1.20	1.05~1.15
	流变仪(25℃,	7000~8500(冬季)	13000~16000
柏皮(mpa. S)	2~50s ⁻¹)	15000~24000(夏季)	

测试项目(单位)	粘接材料	固化条件	测试条件	性能指标
-		23℃, 24h	23℃ 5mm/min	≥3.0
如仲勞切加及 (MDa)	45#钢/45#钢	23℃,72h	23℃ 5mm/min	≥5.0
		23℃, 72h	150℃ 5mm/min	≥1.0
不挥发物含量		<u></u>	105°C 190min	
(%)	-	23 C , 72n	125 C 180min	<i>≥9</i> 9.0

表 2 固化后性能

包装储存:

本产品采用双管及塑料密封桶两种规格包装。包装规格:400ml 双管;4kg/桶。 本产品应在室温下密封贮存,防止日光直接照射,防止在高温、高湿环境中暴露,远离 火源。本产品在原包装内,储存期为24个月。 Issue Date: 201

2013-05-21

Page 1 of 3 Test Record Report Reference #

Test Record No. 1

Manufacturer submitted the representative sample of the ITE Power Supply, model GT-93020-0324 for constructional checking and testing purposes.

Unless specified, the tests specified in T1-DS1 and T1-DS2 were conducted on UL LLC HK In-House Lab.

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements UL 60950-1, 2nd Edition, 2011-12-19 (Information Technology Equipment - Safety - Part 1: General Requirements) CSA C22.2 No. 60950-1-07, 2nd Edition, 2011-12 (Information Technology Equipment - Safety - Part 1: General Requirements). Therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Test Record

The following tests were conducted:

Test	Testing Location/Comments
End Product Reference Page	
General Guidelines	
Power Supply Reference Page	
Guide Information Page - Maximum Output Voltage, Current, and Volt Ampere Measurement (1.2.2.1)	
Input: Single-Phase (1.6.2)	
Capacitance Discharge (2.1.1.7)	
SELV Reliability Test Including Hazardous Voltage Measurements (2.2.2, 2.2.3, 2.2.4, Part 22 6.1)	
Limited Current Circuit Measurement (2.4.1, 2.4.2)	
Limited Power Source Measurements (2.5)	
Humidity (2.9.1, 2.9.2, 5.2.2)	
Determination of Working Voltage; Working Voltage Measurement (2.10.2)	
Transformer and Wire /Insulation Electric Strength (2.10.5.13)	
Strain Relief (3.2.6, 4.2.1, 4.2.7)	
Steady Force (4.2.1 - 4.2.4)	
Impact (4.2.5, 4.2.1, Part 22 10.2)	
Drop (4.2.6, 4.2.1)	
Stress Relief (4.2.7, 4.2.1)	
Loading - Wall and Ceiling Mounted Equipment (4.2.10)	
Heating (4.5.1, 1.4.12, 1.4.13)	
Touch Current (Single-Phase; TN/TT System) (5.1, Annex D)	
Electric Strength (5.2.2)	
Component Failure (5.3.1, 5.3.4, 5.3.7)	
Transformer Abnormal Operation (5.3.3, 5.3.7b, Annex C.1)	
Power Supply Output Short-Circuit/Overload (5.3.7)	

Test results are valid only for the tested equipment. These tests are considered representative of the products covered by this Test Report. The test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the Standard(s) referenced at the beginning of this Test Report.

The following supplements are provided as a part of this Test Record. NOTE: These supplements are only available to the Applicant via the CDA system.

Page 3 of 3

Test Record

<u>Type</u>	Supplement Id	Description
Attachment	2-01	CRD
Datasheet	2-02	Test Record T1-DS1
Datasheet	2-03	Test Record T1-DS2

Project No.	13CA12351	File	E341351	Page	1
Compliance					
Review					
Conducted	Suki Kwong/		Suki Kwong /		
by:	Leung Chi Wah		Leung Chi Wah	Date	2012-04-22
	Printed Name		Signature	_	

When a measurement is needed to determine compliance with a clause the actual measured value must be recorded in the space provided. A simple 'Yes' / 'No' response is not sufficient. (See 'UL Certification Program - Work Instructions for Completion of Construction Review Datasheets (CRD) For C-UL Mark' (00-OP-W0038) for details).

CONSTRUCTION COMPLIANCE REVIEW RECORD

Sample Identification -

Sample Card	Date	Sample	Manufacturer, Product Identification and
No.	Received	No.	Ratings
1582111	2013-03-06	S1	GLOBTEK (HONG KONG) LTD, GT-93020-0324 POWER SUPPLY, Input 24Vac or 16-34Vac 50-60Hz,
		-	Output: 24Vdc 0.125A, 1A peak
1615954	2013-04-22	S1	GLOBTEK (HONG KONG) LTD, GT-93020-0324 POWER SUPPLY, Input 24Vac or 16-34Vac 50-60Hz, Output: 24Vdc 0.125A, 1A peak
-	-	_	_
_	_	_	_

Measurement Instrument Information -

			Last Cal.	Next Cal.
Inst. ID No.	Instrument Type	Function/Range	Date	Date
Please Check LPM				

The following additional information is required when using client's or rented equipment, or when a UL ID Number for an instrument number is not used. The Inst. ID No. below corresponds to the Inst. ID No. above.

Inst. ID No.	Make/Model/Serial Number/Asset No.
-	-

[X] Measurement instrument information is recorded on UL's Laboratory Project Management (LPM) database. (This statement may be selected only if CRDs are completed at a UL facility)

ULS-02377-AAAG-ConstructionReview-2004 Form Issued: 2004-12-21 Form Page 1 Form Revised: 2008-07-08 Copyright © 2012 UL LLC

Only those products bearing the UL Mark should be considered as being covered by UL.

Project No.	13CA12351	File	E341351	Page	2
Compliance					
Review					
Conducted	Suki Kwong/		Suki Kwong /		
by:	Leung Chi Wah		Leung Chi Wah	Date	2012-04-22
	Printed Name		Signature	-	

CONSTRUCTION COMPLIANCE REVIEW:

The sample was reviewed for compliance with the construction requirements in the standard indicated below and a complete record including measurements to support compliance with those requirements is detailed in Report Reference No. E341351-A61.

	CAN/CSA-C22.2 No. 60950-1-07 2 nd Edition+Am1, Revision Date		
	2011-12		
	UL60950-1, 2 nd Edition+Am1,	Edition/	
Standard	Revision Date 2011/12/19	Revision Date	2 nd Edition+Am1

 $\circlel{eq:construction}$ Requirements were not covered by the above-mentioned Report.

Clause/Par.	Reference and	Comply		7		INST.
Construction	Requirement	YES	NO	N/A	COMMENTS/MEASUREMENTS	ID NO.
	/					

ULS-02377-AAAG-ConstructionReview-200	Form Issued:	2004-12-21
Form Page 2	Form Revised:	2008-07-08
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