






COVER PAGE FOR TEST REPORT

Test Item Description:	Power Supplies
Model/Type Reference:	GTM9250P Series
Rating(s):	Note: The models listed above are standard models, upon which custom versions are based. All units are based on the same nomenclature; see the Model Differences section for details. Input: Voltage: 100-240 Vac Frequency: 50-60 Hz Rated Current for : 4.0 A Output: See Miscellaneous Enclosure 7-01 for output ratings.
Standards:	IEC 60601-1:1988 + A1:1991 + A2:1995
Applicant Name and Address:	GLOBTEK INC 186 VETERANS DR NORTHVALE NJ 07647 UNITED STATES
Factory Location(s):	GLOBTEK (SUZHOU) CO LTD BLDG 4, #76 JINLING EAST RD SUZHOU PARK SUZHOU, JIANGSU 215021 CHINA
This Report includes the following parts, in addition to this cover page: <ol style="list-style-type: none">1. Specific Technical Criteria2. Enclosures<ol style="list-style-type: none">a. National Differences	
The original report was modified on 2008-11-05 to include the following changes/additions: National Deviations for various countries.	
All applicable tests according to the above standard(s) have been carried out. Test results are valid only for the tested equipment. This Test Report can be reproduced only in whole. Amendments and corrections can be reproduced only with the original CB Test Report. Written permission from Underwriters Laboratories Inc. is required if the test report is copied in part.	

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	<p>Test Report issued under the responsibility of:</p> <p>Underwriters Laboratories Inc.</p>	 <p>Underwriters Laboratories</p>
<p>TEST REPORT IEC 60601-1 Medical Electrical Equipment Part 1:General requirements for safety</p>		
<p>Report Reference No : E172861-A14-CB-1 Date of issue : 2008-07-24 Total number of pages : 9</p>		
<p>CB Testing Laboratory : Underwriters Laboratories Inc. Address : 1285 Walt Whitman Road, Melville, NY, 11747, USA</p>		
<p>Applicant's name : GLOBTEK INC 186 VETERANS DR Address : NORTHVALE NJ 07647 UNITED STATES</p>		
<p>Test specification: Standard : IEC 60601-1:1988 + A1:1991 + A2:1995 Test procedure : CB Scheme Non-standard test method : N/A</p>		
<p>Test Report Form No. : IEC60601_1c/97-04 Test Report Form originator : Underwriters Laboratories Inc Master TRF : dated 97-04</p>		
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Test item description	Power Supplies
Trade Mark	
Model/Type reference	GTM9250P Series
	Note: The models listed above are standard models, upon which custom versions are based. All units are based on the same nomenclature; see the Model Differences section for details.
Manufacturer	GLOBTEK INC 186 VETERANS DR NORTHVALE NJ 07647 UNITED STATES
Rating	Input: Voltage: 100-240 Vac Frequency: 50-60 Hz Rated Current for : 4.0 A
	Output: See Miscellaneous Enclosure 7-01 for output ratings.

Testing procedure and testing location:	
<input checked="" type="checkbox"/> CB Testing Laboratory	
Testing location / address..... :	Underwriters Laboratories Inc. 1285 Walt Whitman Road, Melville, NY, 11747, USA
<input type="checkbox"/> Associated CB Test Laboratory	
Testing location / address..... :	
Tested by (name + signature) :	Michael Lavorata 
Approved by (+ signature) :	David Alma 
<input type="checkbox"/> Testing Procedure: TMP	
Tested by (name + signature) :	
Approved by (+ signature) :	
Testing location / address..... :	
<input type="checkbox"/> Testing Procedure: WMT	
Tested by (name + signature) :	
Witnessed by (+ signature)..... :	
Approved by (+ signature) :	
Testing location / address..... :	
<input type="checkbox"/> Testing Procedure: SMT	
Tested by (name + signature) :	
Approved by (+ signature) :	
Supervised by (+ signature) :	
Testing location / address..... :	
<input type="checkbox"/> Testing Procedure: RMT	
Tested by (name + signature) :	
Approved by (+ signature) :	
Supervised by (+ signature) :	
Testing location / address..... :	

Issue Date: 2008-07-24
Correction 1 2008-11-05

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Report Reference #

E172861-A14-CB-1

Summary of Testing:

No tests were conducted

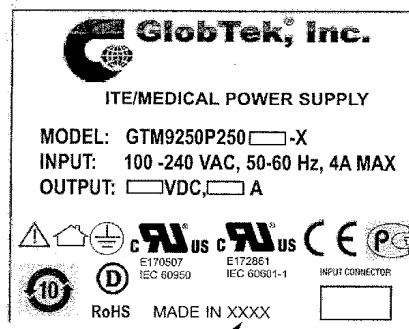
Summary of Compliance with National Differences:

AT, AU, BE, BR, CA, CH, CS, CZ, DE, DK, FI, FR, GB, GR, HU, IE, IL, IN, IT, KE, KR, NL, NO, PL,
PT, RU, SE, SI, SK, TR, UA, US

Copy of Marking Plate

Generic Label representing all Models in Series

(Model List under Enclosure Section provides specific part number and output voltages/currents)



Test item particulars :

Classification of installation and use : for building in
Supply connection : for building in
Accessories and detachable parts included in the
evaluation : None
Options included : None

Possible test case verdicts:

- test case does not apply to the test object : N / A
- test object does meet the requirement : P(Pass)
- test object does not meet the requirement : F(Fail)

Abbreviations used in the report:

- normal condition	N.C.	- single fault condition	S.F.C.
- operational insulation	OP	- basic insulation	BI
- basic insulation between parts of opposite polarity:	BOP	- supplementary insulation	SI
- double insulation	DI	- reinforced insulation	RI

Testing:

Date(s) of receipt of test item : N/A
Date(s) of Performance of tests : N/A

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

List of test equipment must be kept on file and be available for review.

"(see Enclosure #)" refers to additional information appended to the report.
"(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

Refer to the Cover Page For Test Report for a list of all Factory Locations.

GENERAL PRODUCT INFORMATION:

Report Summary

The original report was modified on 2008-10-27 to include the following changes/additions:
The factory location of Shenzhen is no longer used. In it's place, another previously approved manufacturer, Globtek (Suzhou) Co. Ltd. is it's replacement.

The original report was modified on 2008-11-05 to include the following changes/additions:
National Deviations for various countries.

Product Description

The products covered by this report are switching power supplies, intended to provide power to and intended for use with Information Technology Equipment and Medical Electrical Equipment.

Model Differences

Differences within the GTM9250 families are limited to minor component changes to determine specific output voltage and current parameters.

The 9250 Series is the family model designation which is represented by the following generic nomenclature:

GTM9250PXXXYY-Z.Z-D where:

GTM designates GlobTek models with IEC 60601-1 Medical Safety approvals:

P designates the use of active power factor correction circuitry;

XXX designates the rated output power as seen in the standard model list;

YY designates the rated output voltage as seen in the standard model list;

Z.Z designates the optional voltage deviation, subtracted from standard output voltage in 0.1 volt increments;

D designates the type of construction, where D is:

F which represents the fan control option

S which represents input header and output terminal block

M which represents input and output header on board

HIXXX which represents input wire harness. Where XXX may be between 000 and 999 (max. length for input is 200 mm)

HOXXX which represents input header on board and output wire harness. Where XXX may be between 000 and 999 (max. length is 200 mm)

HIOXXX which represents input and output wire harness. Where XXX may be between 000 and 999 (max. length is 200 mm for output)

HIHXXX which represents input wire harness and output header on board.

Standard Models:

	Vdc	A
GTM9250P753.3F- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	3.3	22.72
GTM9250P1005.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	5.0	20.00
GTM9250P1007.5-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	7.5	13.33
GTM9250P1509-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	9.0	16.67
GTM9250P15012-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	12.0	12.50
GTM9250P15015-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	15.0	15.00
GTM9250P15018-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	18.0	8.33
GTM9250P15024-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	24.0	6.25
GTM9250P15036-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	36.0	4.17
GTM9250P15048-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	48.0	3.12
GTM9250P1203.3F- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	3.3	36.36
GTM9250P1505.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	5.0	30.00
GTM9250P1807.5-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	7.5	24.00
GTM9250P2009.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	9.0	22.00
GTM9250P25012-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	12.0	20.83
GTM9250P25015-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	15.0	16.66

GTM9250P25018-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	18.0	13.88
GTM9250P25024-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	24.0	10.41
GTM9250P25036-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	36.0	6.94
GTM9250P1503.3F- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	3.3	45.45
GTM9250P2205.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	5.0	44.00
GTM9250P2207.5-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	7.5	29.33
GTM9250P2709.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	9.0	30.00
GTM9250P27012-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	12.0	22.50
GTM9250P27015-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	15.0	18.00
GTM9250P27018-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	18.0	15.00
GTM9250P27024-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	24.0	11.75
GTM9250P27036-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	36.0	7.50
GTM9250P27048-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	48.0	5.63

Note - This nomenclature only covers models employing output ratings equivalent to or less

Additional Information

Model Series GT-9250 and GTM9250 are identical. The Model GT-9250 Series represents units evaluated to IEC 60950-1 while Model Series GTM9250 represents units evaluated to IEC 60101-1. Complete testing of Model GTM9250 Series was not considered necessary based upon previous evaluation under CB Scheme Test Certificate and Report Ref. No. E170507-A12 dated 2006-03-13.

Technical Considerations

The product was investigated to the following additional standards: UL 60601-1, 1st Edition, 2006-04-26 (includes National Differences for USA), CAN/CSA-C22.2 No. 601.1-M90 (R2005) (includes National Differences for Canada)

The product was not investigated to the following standards or clauses: Clause 52.1, Programmable Electronic Systems (IEC 601-1-4), Clause 48, Biocompatibility (ISO 10993-1), Clause 36, Electromagnetic Compatibility (IEC 601-1-2)

The product is Classified only to the following hazards: Shock, Fire, Casualty

The degree of protection against harmful ingress of water is: Ordinary

The mode of operation is: Continuous

Software is relied upon for meeting safety requirements related to mechanical, fire and shock: No

The product is suitable for use in the presence of a flammable anesthetics mixture with air or oxygen or with nitrous oxide: No

Additionally evaluated to EN 60601-1:1990 + A1:1993 + A2:1995. --

Engineering Conditions of Acceptability

When installed in an end-product, consideration must be given to the following:

DI/RI is provided between the primary and the output of the power supply. DI/RI is also provided between the primary and enclosure. --

The power supplies covered by this report are components, which are intended for use in end-use products used in a hospital or related health care facility, evaluated to the Standard for Medical Equipment. --

The power supplies have been evaluated as Class I. continuous operation. ordinary equipment and have not

been evaluated for use in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide. --

The power supplies have not been evaluated for patient connection (Type B, BF or CF). --

Leakage current, temperature and dielectric strength testing should be repeated as part of the end-use product evaluation. --

These products require electrical and fire enclosures as part of the end product. --

Since this unit is for building-in to an end product, the connectors within the end product provide the method of disconnection from the input source. --

This unit utilizes both input/output connectors and output terminal blocks. The input/output connectors are not acceptable for field connections and are only intended for connection to mating connectors of internal insulating materials and temperatures should be considered. --

The input circuit includes only one fuse in the line input. A second fuse must be included in the end product, per consideration of Sub-clause 57.6 of UL 60601-1. --

Testing to IEC 60601-1-2 was not conducted by UL and no supporting evidence of compliance has been presented. When submitting this Test Report to another Certification Body, the manufacturer is responsible for providing any additional information that the Body may need in order to issue the Mark, including testing for compliance with the applicable collateral standards. --

Model Series utilizes a Class B (130) Insulation System by Globtek designated GTX-1; or Class B (130) Insulation System by Young-Shang designated YSE-0510 or YSE-0522; or Class B (130) Insulation System by Volt designated R152D, R172D, TVT-130, DASH 2B-5 or GH-130; or Class B (130) Insulation System by Yao Sheng designated YST-JC-1, M7A90, M7AGHB, M7ADEW, or DASH 2B-5A. --

The product was evaluated in a Pollution Degree 2 environment. --

Temperatures were evaluated for use in a 40 degree C ambient. --

Enclosure

National Differences

Australia
Austria*
Belgium*
Brazil*
Canada
Czech Republic*
Denmark
Finland*
France*
Germany*
Greece*
Hungary*
India*
Ireland*
Israel
Italy*
Kenya*
Korea
Netherlands*
Norway*
Poland*
Portugal*
Russia*
Serbia and Montenegro*
Slovakia*
Slovenia*
Sweden*
Switzerland*
Turkey*
USA
Ukraine*
United Kingdom*

* No National Differences Declared

** Only Group Differences

IEC 60601			
SubClause	Difference + Test	Result - Remark	Verdict

Denmark - Differences to IEC 60601-1:1988 + A1:1991 + A2:1995			
General	For plug and socket outlets the National Standard SB 107-2-D1 3rd Edition applies.		N/A
General	For Class I equipment: Plugs: DK 2-1a, DK 2-1a with flat phase pin or DK 2-5a. Socket outlets: DK 1-3a		N/A
General	For Class II equipment: Plugs: DKA 2-1a, DKA 2-1b, Clb, C5, C6 or according to EN 50075		N/A

Israel - Differences to IEC 60601-1:1988 + A1:1991 + A2:1995			
4.7a	Equipment that is to be connected to the mains is intended for one of the permitted voltages and frequencies:		Pass
4.7a	a) Nominal frequency of 50 Hz		Pass
4.7a	b) Nominal voltage of 230 V, for portable and hand-held equipment		N/A
4.7a	c) Nominal voltage of 230 V, for one phase equipment with input power not exceeding 4 kVA		Pass
4.7a	d) Nominal voltage of 400 V, for multiphase equipment		N/A
4.7b	Other equipment is allowed to be connected to the mains if it has the following ratings:		Pass
4.7b	a) Single phase equipment, for the range of 220 to 240 V		Pass
4.7b	b) Multiphase equipment, for the range of 380 to 440 V		N/A

IEC 60601			
SubClause	Difference + Test	Result - Remark	Verdict

Korea - Differences to IEC 60601-1:1988 + A1:1991 + A2:1995			
6.1j	Insert the following sub-clause between the second and third sub-clauses: Equipment for one or several RATED voltage or frequency ranges, the RATED input for 220 V, 60 Hz or if applicable for 110 V, 60 Hz shall be separately marked.		Pass
6.1s	HIGH VOLTAGE TERMINAL DEVICES on the outside of EQUIPMENT which are accessible without the use of a TOOL shall be marked with the symbol "dangerous voltage" (see Appendix D, Table DII, Symbol 6) and wit the Korean language, .		N/A
6.2c	Replace the existing subclause wit the following: The presence of HIGH VOLTAGE PARTS shall be marked with the symbol "dangerous voltage" (see Appendix D, Table DII, Symbol 6) and in the Korean language.		N/A
6.8.1	Insert the following sub-clause after the last paragraph: Language of accompanying documents shall be included in Korean.		N/A
General	National supply voltages are 110 V, 220 V and 380 V.		Pass
General	Only appliances having supply frequency of 60 Hz or a frequency range including 60 Hz are accepted.		Pass
General	Instruction manuals and appliance markings related to safety, including nameplate, shall be in Korean or graphical symbols in accordance with IEC Publication 417.		N/A
General	Plugs for connection of the equipment to the supply mains shall comply with the Korean Standard (KSC 8305 and 8300). More details are available from KTL (c/o KTL) on request.		N/A

IEC 60601			
SubClause	Difference + Test	Result - Remark	Verdict

USA - Differences to IEC 60601-1:1988 + A1:1991 + A2:1995			
3.100.1a	Printed wiring boards comply with U.S. National or internationally harmonized component standards unless they are connected totally in a SELV circuit limited to 15 W, or less, maximum available power and whose failure will not result in a Safety Hazard.	UL R/C PWB used.	Pass
3.100.1c	Optical isolators comply with U.S. National or internationally harmonized component standards unless they are connected totally in a SELV circuit limited to 15 W, or less, maximum available power and whose failure will not result in a Safety Hazard.	UL R/C components.	Pass
3.101.1	Primary circuit components up to isolation transformer meet U.S. national or international harmonized component standards		Pass
6	a) All words except the signal words in "CAUTION", "WARNING", and "DANGER" markings at least 1.6 mm (1/16 inch) high		Pass
6	c) Letters in contrast color to the background		Pass
55	Polymeric enclosures and external combustible surfaces		N/A
55	Polymeric enclosures for transportable equipment rated 94V-2 or better		N/A
55	Polymeric enclosures withstand 6.78 Nm impact test		N/A
55	Polymeric enclosures: no deformation after mold stress test		N/A
55	Polymeric enclosures of hand-held equipment withstands 1.22 m drop test		N/A

IEC 60601			
SubClause	Difference + Test	Result - Remark	Verdict

Australia - Differences to IEC 60601-1:1988 + A1:1991 + A2:1995			
6.1g	Insert the following between the first and second dashes: For low voltage equipment rated at 200 V or more, a voltage rating (which may be part of a range) of not less than 230 V. Supply frequency ratings which include 60 Hz must also include 50 Hz.		Pass
6.6	Replace the existing text of Item a) with the following: a) Identification of the content of gas cylinders used in medical practice as part of electrical EQUIPMENT shall be in accordance with AS 1944, (see also sub-clause 56.3a).		N/A
28.2a	Ceiling-supported EQUIPMENT		N/A
28.2a	i. EQUIPMENT fitted with an anticrash device or have suspension cables duplicated and independently anchored.		N/A
28.2a	ii. Motorized drives designed to prevent the driven part from becoming hazardous in the event of a power failure.		N/A
28.2a	iii. Carriages, brakes, and supports designed such that any single failure will not constitute a hazard to the PATIENT.		N/A
28.2a	iv. Effective means incorporated to prevent carriages running off supporting rails.		N/A
28.2a	v. Effective means incorporated to facilitate adequate inspection of cables and anchorages.		N/A
28.2a	vi. Proximity or pressure switches may be used to minimize hazards.		N/A
28.2a	vii. Ceiling-supported EQUIPMENT or parts thereof connected by electrical supply cables provided with stops (e.g. for limitation of rotation or linear movement) to restrict movement in a manner which avoids any undue strain on the wiring termination or damage to the wiring.		N/A
28.2b	Floor and floor-to-ceiling supported (including mobile) EQUIPMENT.		N/A
28.2b	i. Anticrash devices fitted to cable, chains, etc.		N/A
28.2b	ii. Means incorporated to facilitate adequate inspection of cables and anchorages.		N/A
28.2b	iii. Cross-arms or pivots fitted with adequate stops, locknuts, arub screws, or similar devices to prevent		N/A

IEC 60601			
SubClause	Difference + Test	Result - Remark	Verdict

	supported masses from being dislodged.		
42.3	Item 2) Add the following to the first dash: For this clause only, low voltage equipment rated at greater than 200 V is regarded as having a maximum rated voltage of 230 V.		N/A
52.5.8	Table XII: In second row, first dash, after "if impedance protected", add "maximum value".		N/A
56.3a	Replace the text in the third dash by the following: Medical gas connections on EQUIPMENT shall, if operating at positive pressures greater than 50 kPa in NORMAL USE, comply with AS 2472, AS 2473, or AS 2896 as appropriate.		N/A
57.2a	Replace "not used" with: Supply plugs - Provision for inspection Where a supply flexible cord is fitted with a rewirable plug of a type complying with the requirements of AS 3112 for 3 pin plugs, the plug clear-backed to facilitate inspection of the cord colors and the condition of the terminations.		N/A

IEC SYSTEM FOR CONFORMITY TESTING AND
CERTIFICATION OF ELECTRICAL EQUIPMENT (IECEE)
CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE ET DE CERTIFICATION
DES EQUIPEMENTS ELECTRIQUES (IECEE)
METHODE OC

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product
Produit

Name and address of the applicant
Nom et adresse du demandeur

Name and address of the manufacturer
Nom et adresse du fabricant

Name and address of the factory
Nom et adresse de l'usine

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

Trademark (if any)
Marque de fabrique (si elle existe)

Model / Type Ref.
Ref. de type

Additional information (if necessary)
Information complémentaire (si nécessaire)

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

as shown in the Test Report Ref. No.
which forms part of this Certificate
comme indiqué dans le Rapport d'essais numéro
de référence qui constitue partie de ce Certificat

Power Supplies

Globtek Inc
186 Veterans Dr
Northvale, NJ 07647, USA

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186 Veterans Dr
Northvale, NJ 07647, USA

Globtek (Suzhou) Co Ltd
Bldg 4, #76, Jinling East Rd
Suzhou Park, Suzhou, Jiangsu 215021, China

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Rated Current for : 4.0 A
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This CB Test Report comprises 5 enclosures. The CB Test Certificate was amended on October 27, 2008 to modify factory address.

PUBLICATION EDITION

IEC 60601-1 (1988) Second Edition,
with Amendment No. 1 (1991) and No. 2 (1995) with the exception of:
Clause 36, Electromagnetic Compatibility, Clause 48, Biocompatibility and Clause 52.1,
Programmable Electronic Systems. See Test Report for National Differences.

E172861-A14-CB-1

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

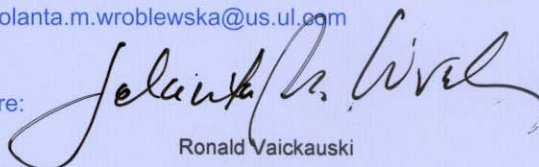


**Underwriters
Laboratories**

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Date: Issued: 2008 July 24
Amended: 2008 October 27 (Am. 1)

Signature:




Ronald Vaickauski



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All applicable tests according to the above standard(s) have been carried out. Test results are valid only for the tested equipment. This Test Report can be reproduced only in whole. Amendments and corrections can be reproduced only with the original CB Test Report. Written permission from Underwriters Laboratories Inc. is required if the test report is copied in part.	

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Address : UNITED STATES		
Test specification:		
Standard : IEC 60601-1:1988 + A1:1991 + A2:1995		
Test procedure : CB Scheme		
Non-standard test method : N/A		
Test Report Form No. : IEC60601_1c/97-04		
Test Report Form originator : Underwriters Laboratories Inc		
Master TRF : dated 97-04		
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If this test Report is used by non-IECEE members, the IECEE/IEC logo shall be removed.		
This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.		

Test item description	Power Supplies
Trade Mark	
Model/Type reference	GTM9250P Series
	Note: The models listed above are standard models, upon which custom versions are based. All units are based on the same nomenclature; see the Model Differences section for details.
Manufacturer	GLOBTEK INC 186 VETERANS DR NORTHVALE NJ 07647 UNITED STATES
Rating	Input: Voltage: 100-240 Vac Frequency: 50-60 Hz Rated Current for : 4.0 A
	Output: See Miscellaneous Enclosure 7-01 for output ratings.

Testing procedure and testing location:	
<input checked="" type="checkbox"/> CB Testing Laboratory	
Testing location / address..... :	Underwriters Laboratories Inc. 1285 Walt Whitman Road, Melville, NY, 11747, USA
<input type="checkbox"/> Associated CB Test Laboratory	
Testing location / address..... :	
Tested by (name + signature) :	Michael Lavorata 
Approved by (+ signature) :	David V. Alma 
<input type="checkbox"/> Testing Procedure: TMP	
Tested by (name + signature) :	
Approved by (+ signature) :	
Testing location / address..... :	
<input type="checkbox"/> Testing Procedure: WMT	
Tested by (name + signature) :	
Witnessed by (+ signature)..... :	
Approved by (+ signature) :	
Testing location / address..... :	
<input type="checkbox"/> Testing Procedure: SMT	
Tested by (name + signature) :	
Approved by (+ signature) :	
Supervised by (+ signature) :	
Testing location / address..... :	
<input type="checkbox"/> Testing Procedure: RMT	
Tested by (name + signature) :	
Approved by (+ signature) :	
Supervised by (+ signature) :	
Testing location / address..... :	

Issue Date: 2008-07-24
Amendment 1 2008-10-27

Page 4 of 9

Report Reference #

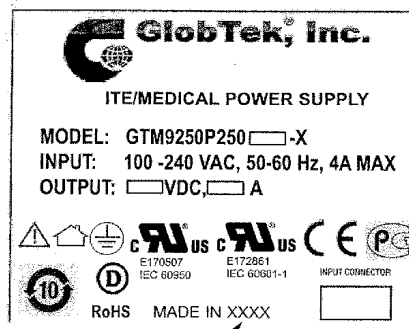
E172861-A14-CB-1

Summary of Testing:
No tests were conducted
Summary of Compliance with National Differences:
CA, US

Copy of Marking Plate

Generic Label representing all Models in Series

(Model List under Enclosure Section provides specific part number and output voltages/currents)



XXXX - USA OR CHINA

Test item particulars :

Classification of installation and use	for building in
Supply connection	for building in
Accessories and detachable parts included in the evaluation	None
Options included	None

Possible test case verdicts:

- test case does not apply to the test object	N / A
- test object does meet the requirement	P(Pass)
- test object does not meet the requirement	F(Fail)

Abbreviations used in the report:

- normal condition	N.C.	- single fault condition	S.F.C.
- operational insulation	OP	- basic insulation	BI
- basic insulation between parts of opposite polarity:	BOP	- supplementary insulation	SI
- double insulation	DI	- reinforced insulation	RI

Testing:

Date(s) of receipt of test item	N/A
Date(s) of Performance of tests	N/A

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

List of test equipment must be kept on file and be available for review.

"(see Enclosure #)" refers to additional information appended to the report.
"(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

Refer to the Cover Page For Test Report for a list of all Factory Locations.

GENERAL PRODUCT INFORMATION:

Report Summary

The original report was modified on 2008-10-27 to include the following changes/additions:
The factory location of Shenzhen is no longer used. In it's place, another previously approved manufacturer, Globtek (Suzhou) Co. Ltd. is it's replacement.

Product Description

The products covered by this report are switching power supplies, intended to provide power to and intended for use with Information Technology Equipment and Medical Electrical Equipment.

Model Differences

Differences within the GTM9250 families are limited to minor component changes to determine specific output voltage and current parameters.

The 9250 Series is the family model designation which is represented by the following generic nomenclature:

GTM9250PXXXYY-Z.Z-D where:

GTM designates GlobTek models with IEC 60601-1 Medical Safety approvals:

- P designates the use of active power factor correction circuitry;
- XXX designates the rated output power as seen in the standard model list;
- YY designates the rated output voltage as seen in the standard model list;
- Z.Z designates the optional voltage deviation, subtracted from standard output voltage in 0.1 volt increments;
- D designates the type of construction, where D is:
 - F which represents the fan control option
 - S which represents input header and output terminal block
 - M which represents input and output header on board
 - HIXXX which represents input wire harness. Where XXX may be between 000 and 999 (max. length for input is 200 mm)
 - HOXXX which represents input header on board and output wire harness. Where XXX may be between 000 and 999 (max. length is 200 mm)
 - HIOXXX which represents input and output wire harness. Where XXX may be between 000 and 999 (max. length is 200 mm for output)
 - HIHXXX which represents input wire harness and output header on board.

Standard Models:

	Vdc	A
GTM9250P753.3F- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	3.3	22.72
GTM9250P1005.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	5.0	20.00
GTM9250P1007.5-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	7.5	13.33
GTM9250P1509-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	9.0	16.67
GTM9250P15012-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	12.0	12.50
GTM9250P15015-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	15.0	15.00
GTM9250P15018-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	18.0	8.33
GTM9250P15024-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	24.0	6.25
GTM9250P15036-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	36.0	4.17
GTM9250P15048-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	48.0	3.12
GTM9250P1203.3F- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	3.3	36.36
GTM9250P1505.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	5.0	30.00
GTM9250P1807.5-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	7.5	24.00
GTM9250P2009.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	9.0	22.00
GTM9250P25012-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	12.0	20.83
GTM9250P25015-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	15.0	16.66
GTM9250P25018-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	18.0	13.88
GTM9250P25024-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	24.0	10.41
GTM9250P25036-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	36.0	6.94

GTM9250P1503.3F- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	3.3	45.45
GTM9250P2205.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	5.0	44.00
GTM9250P2207.5-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	7.5	29.33
GTM9250P2709.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	9.0	30.00
GTM9250P27012-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	12.0	22.50
GTM9250P27015-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	15.0	18.00
GTM9250P27018-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	18.0	15.00
GTM9250P27024-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	24.0	11.75
GTM9250P27036-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	36.0	7.50
GTM9250P27048-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	48.0	5.63

Note - This nomenclature only covers models employing output ratings equivalent to or less

Additional Information

Model Series GT-9250 and GTM9250 are identical. The Model GT-9250 Series represents units evaluated to IEC 60950-1 while Model Series GTM9250 represents units evaluated to IEC 60101-1. Complete testing of Model GTM9250 Series was not considered necessary based upon previous evaluation under CB Scheme Test Certificate and Report Ref. No. E170507-A12 dated 2006-03-13.

Technical Considerations

The product was investigated to the following additional standards: UL 60601-1, 1st Edition, 2006-04-26 (includes National Differences for USA), CAN/CSA-C22.2 No. 601.1-M90 (R2005) (includes National Differences for Canada)

The product was not investigated to the following standards or clauses: Clause 52.1, Programmable Electronic Systems (IEC 601-1-4), Clause 48, Biocompatibility (ISO 10993-1), Clause 36, Electromagnetic Compatibility (IEC 601-1-2)

The product is Classified only to the following hazards: Shock, Fire, Casualty

The degree of protection against harmful ingress of water is: Ordinary

The mode of operation is: Continuous

Software is relied upon for meeting safety requirements related to mechanical, fire and shock: No

The product is suitable for use in the presence of a flammable anesthetics mixture with air or oxygen or with nitrous oxide: No

Engineering Conditions of Acceptability

When installed in an end-product, consideration must be given to the following:

DI/RI is provided between the primary and the output of the power supply. DI/RI is also provided between the primary and enclosure. --

The power supplies covered by this report are components, which are intended for use in end-use products used in a hospital or related health care facility, evaluated to the Standard for Medical Equipment. --

The power supplies have been evaluated as Class I, continuous operation, ordinary equipment and have not been evaluated for use in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide. --

The power supplies have not been evaluated for patient connection (Type B, BF or CF). --

Leakage current, temperature and dielectric strength testing should be repeated as part of the end-use product evaluation. --

These products require electrical and fire enclosures as part of the end product. --

Since this unit is for building-in to an end product, the connectors within the end product provide the method of disconnection from the input source. --

This unit utilizes both input/output connectors and output terminal blocks. The input/output connectors are not acceptable for field connections and are only intended for connection to mating connectors of internal insulating materials and temperatures should be considered. --

The input circuit includes only one fuse in the line input. A second fuse must be included in the end product, per consideration of Sub-clause 57.6 of UL 60601-1. --

Testing to IEC 60601-1-2 was not conducted by UL and no supporting evidence of compliance has been presented. When submitting this Test Report to another Certification Body, the manufacturer is responsible for providing any additional information that the Body may need in order to issue the Mark, including testing for compliance with the applicable collateral standards. --

Model Series utilizes a Class B (130) Insulation System by Globtek designated GTX-1; or Class B (130) Insulation System by Young-Shang designated YSE-0510 or YSE-0522; or Class B (130) Insulation System by Volt designated R152D, R172D, TVT-130, DASH 2B-5 or GH-130; or Class B (130) Insulation System by Yao Sheng designated YST-JC-1, M7A90, M7AGHB, M7ADEW, or DASH 2B-5A. --

The product was evaluated in a Pollution Degree 2 environment. --

Temperatures were evaluated for use in a 40 degree C ambient. --

IEC SYSTEM FOR CONFORMITY TESTING AND
CERTIFICATION OF ELECTRICAL EQUIPMENT (IECEE)
CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE ET DE CERTIFICATION
DES EQUIPEMENTS ELECTRIQUES (IECEE)
METHODE OC

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product
Produit

Name and address of the applicant
Nom et adresse du demandeur

Name and address of the manufacturer
Nom et adresse du fabricant

Name and address of the factory
Nom et adresse de l'usine

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

Trademark (if any)
Marque de fabrique (si elle existe)

Model / Type Ref.
Ref. de type

Additional information (if necessary)
Information complémentaire (si nécessaire)

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

as shown in the Test Report Ref. No.
which forms part of this Certificate
comme indiqué dans le Rapport d'essais numéro
de référence qui constitue partie de ce Certificat

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification

Power Supplies

Globtek Inc
186 Veterans Dr
Northvale, NJ 07647, USA

Globtek Inc
186 Veterans Dr
Northvale, NJ 07647, USA

Globtek (Shanghai) Co Ltd
2085 Jia An Gong Lu
Jia Ding, 201821 Shanghai, China

Input: Voltage: 100-240 Vac, Frequency: 50-60 Hz, Rated Current for: 4.0 A
Output: See Miscellaneous Enclosure 7-01 for output ratings.

Not applicable

GTM9250P Series Note: The models listed above are standard models, upon which custom versions are based. All units are based on the same nomenclature; see the Model Differences section for details.

This CB Test Report comprises 5 enclosures.

PUBLICATION

EDITION

**IEC 60601-1 (1988) Second Edition,
with Amendment No. 1 (1991) and No. 2 (1995)** with the exception of:
Clause 36, Electromagnetic Compatibility, Clause 48, Biocompatibility and Clause 52.1,
Programmable Electronic Systems. See Test Report for National Differences.

E172861-A14-CB-1

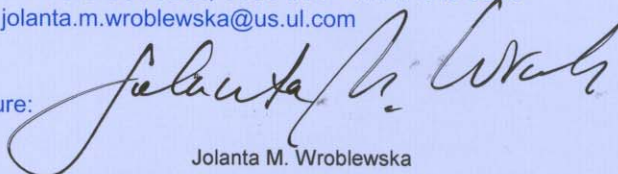


**Underwriters
Laboratories**

Date: Issued: 2008 July 24

Underwriters Laboratories Inc. / Certification Programs Office, USA
333 Pfingsten Road, Northbrook, IL 60062-2096
United States of America
TEL INT* +1 847 664 3008, FAX INT* +1 847 313 3008
email: jolanta.m.wroblewska@us.ul.com

Signature:





Jolanta M. Wroblewska



COVER PAGE FOR TEST REPORT

Test Item Description:	Power Supplies
Model/Type Reference:	GTM9250P Series
Rating(s):	<p>Note: The models listed above are standard models, upon which custom versions are based. All units are based on the same nomenclature; see the Model Differences section for details.</p> <p>Input: Voltage: 100-240 Vac Frequency: 50-60 Hz Rated Current for : 4.0 A</p> <p>Output: See Miscellaneous Enclosure 7-01 for output ratings.</p>
Standards:	IEC 60601-1:1988 + A1:1991 + A2:1995
Applicant Name and Address:	GLOBTEK INC 186 VETERANS DR NORTHVALE NJ 07647 UNITED STATES
Factory Location(s):	GLOBTEK (SHANGHAI) CO LTD 2085 JIA AN GONG LU JIA DING 201821 SHANGHAI, CHINA
<p>This Report includes the following parts, in addition to this cover page:</p> <ol style="list-style-type: none">1. Specific Technical Criteria2. Clause Verdicts3. Critical Components4. Test Results5. Enclosures<ol style="list-style-type: none">a. National Differencesb. Photographsc. Diagramsd. Schematics + PWBe. Miscellaneousf. Licenses	
<p>All applicable tests according to the above standard(s) have been carried out. Test results are valid only for the tested equipment. This Test Report can be reproduced only in whole. Amendments and corrections can be reproduced only with the original CB Test Report. Written permission from Underwriters Laboratories Inc. is required if the test report is copied in part.</p>	

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	<p>Test Report issued under the responsibility of:</p> <p>Underwriters Laboratories Inc.</p>	 <p>Underwriters Laboratories</p>
<p>TEST REPORT IEC 60601-1 Medical Electrical Equipment Part 1:General requirements for safety</p>		
<p>Report Reference No : E172861-A14-CB-1 Date of issue : 2008-07-24 Total number of pages : 68</p>		
<p>CB Testing Laboratory : Underwriters Laboratories Inc. Address : 1285 Walt Whitman Road, Melville, NY, 11747, USA</p>		
<p>Applicant's name : GLOBTEK INC 186 VETERANS DR Address : NORTHVALE NJ 07647 UNITED STATES</p>		
<p>Test specification: Standard : IEC 60601-1:1988 + A1:1991 + A2:1995 Test procedure : CB Scheme Non-standard test method : N/A</p>		
<p>Test Report Form No. : IEC60601_1c/97-04 Test Report Form originator : Underwriters Laboratories Inc Master TRF : dated 97-04</p>		
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Test item description	Power Supplies
Trade Mark	None
Model/Type reference	GTM9250P Series
	Note: The models listed above are standard models, upon which custom versions are based. All units are based on the same nomenclature; see the Model Differences section for details.
Manufacturer	GLOBTEK INC 186 VETERANS DR NORTHVALE NJ 07647 UNITED STATES
Rating	Input: Voltage: 100-240 Vac Frequency: 50-60 Hz Rated Current for : 4.0 A
	Output: See Miscellaneous Enclosure 7-01 for output ratings.

Testing procedure and testing location:	
<input checked="" type="checkbox"/> CB Testing Laboratory	
Testing location / address..... :	Underwriters Laboratories Inc. 1285 Walt Whitman Road, Melville, NY, 11747, USA
<input type="checkbox"/> Associated CB Test Laboratory	
Testing location / address..... :	
Tested by (name + signature) :	Michael Lavorata 
Approved by (+ signature) :	David Alma 
<input type="checkbox"/> Testing Procedure: TMP	
Tested by (name + signature) :	
Approved by (+ signature) :	
Testing location / address..... :	
<input type="checkbox"/> Testing Procedure: WMT	
Tested by (name + signature) :	
Witnessed by (+ signature)..... :	
Approved by (+ signature) :	
Testing location / address..... :	
<input type="checkbox"/> Testing Procedure: SMT	
Tested by (name + signature) :	
Approved by (+ signature) :	
Supervised by (+ signature) :	
Testing location / address..... :	
<input type="checkbox"/> Testing Procedure: RMT	
Tested by (name + signature) :	
Approved by (+ signature) :	
Supervised by (+ signature) :	
Testing location / address..... :	

Summary of Testing:

Unless otherwise indicated, all tests were conducted at Underwriters Laboratories Inc. 1285 Walt Whitman Road, Melville, NY, 11747, USA.

Tests performed (name of test and test clause)	Testing location / Comments
Working Voltage Measurement (20.3)	
Summary of Compliance with National Differences:	
CA, US	

Test item particulars :

Classification of installation and use	for building in
Supply connection	for building in
Accessories and detachable parts included in the evaluation	None
Options included	None

Possible test case verdicts:

- test case does not apply to the test object	N / A
- test object does meet the requirement	P(Pass)
- test object does not meet the requirement	F(Fail)

Abbreviations used in the report:

- normal condition	N.C.	- single fault condition	S.F.C.
- operational insulation	OP	- basic insulation	BI
- basic insulation between parts of opposite polarity:	BOP	- supplementary insulation	SI
- double insulation	DI	- reinforced insulation	RI

Testing:

Date(s) of receipt of test item	2008-06-24
Date(s) of Performance of tests	2008-06-24

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

List of test equipment must be kept on file and be available for review.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

Refer to the Cover Page For Test Report for a list of all Factory Locations.

GENERAL PRODUCT INFORMATION:**Report Summary**

All applicable tests according to the referenced standard(s) have been carried out.

Product Description

The products covered by this report are switching power supplies, intended to provide power to and intended for use with Information Technology Equipment and Medical Electrical Equipment.

Model Differences

Differences within the GTM9250 families are limited to minor component changes to determine specific output voltage and current parameters.

The 9250 Series is the family model designation which is represented by the following generic nomenclature:

GTM9250PXXXYY-Z.Z-D where:

GTM designates GlobTek models with IEC 60601-1 Medical Safety approvals:

P designates the use of active power factor correction circuitry;

XXX designates the rated output power as seen in the standard model list;

YY designates the rated output voltage as seen in the standard model list;

Z.Z designates the optional voltage deviation, subtracted from standard output voltage in 0.1 volt increments;

D designates the type of construction, where D is:

F which represents the fan control option

S which represents input header and output terminal block

M which represents input and output header on board

HIXXX which represents input wire harness. Where XXX may be between 000 and 999 (max. length for input is 200 mm)

HOXXX which represents input header on board and output wire harness. Where XXX may be between 000 and 999 (max. length is 200 mm)

HIOXXX which represents input and output wire harness. Where XXX may be between 000 and 999 (max. length is 200 mm for output)

HIHXXX which represents input wire harness and output header on board.

Standard Models:

	Vdc	A
GTM9250P753.3F- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	3.3	22.72
GTM9250P1005.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	5.0	20.00
GTM9250P1007.5-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	7.5	13.33
GTM9250P1509-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	9.0	16.67
GTM9250P15012-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	12.0	12.50
GTM9250P15015-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	15.0	15.00
GTM9250P15018-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	18.0	8.33
GTM9250P15024-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	24.0	6.25
GTM9250P15036-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	36.0	4.17
GTM9250P15048-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	48.0	3.12
GTM9250P1203.3F- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	3.3	36.36
GTM9250P1505.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	5.0	30.00
GTM9250P1807.5-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	7.5	24.00
GTM9250P2009.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	9.0	22.00
GTM9250P25012-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	12.0	20.83
GTM9250P25015-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	15.0	16.66
GTM9250P25018-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	18.0	13.88
GTM9250P25024-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	24.0	10.41
GTM9250P25036-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	36.0	6.94
GTM9250P1503.3F- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	3.3	45.45
GTM9250P2205.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	5.0	44.00

GTM9250P2207.5-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	7.5	29.33
GTM9250P2709.0-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	9.0	30.00
GTM9250P27012-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	12.0	22.50
GTM9250P27015-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	15.0	18.00
GTM9250P27018-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	18.0	15.00
GTM9250P27024-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	24.0	11.75
GTM9250P27036-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	36.0	7.50
GTM9250P27048-X.XF- [S or M or HIXXX or HOXXX or HIOXXX or HIHXXX]	48.0	5.63

Note - This nomenclature only covers models employing output ratings equivalent to or less

Additional Information

Model Series GT-9250 and GTM9250 are identical. The Model GT-9250 Series represents units evaluated to IEC 60950-1 while Model Series GTM9250 represents units evaluated to IEC 60101-1. Complete testing of Model GTM9250 Series was not considered necessary based upon previous evaluation under CB Scheme Test Certificate and Report Ref. No. E170507-A12 dated 2006-03-13.

Technical Considerations

The product was investigated to the following additional standards: UL 60601-1, 1st Edition, 2006-04-26 (includes National Differences for USA), CAN/CSA-C22.2 No. 601.1-M90 (R2005) (includes National Differences for Canada)

The product was not investigated to the following standards or clauses: Clause 52.1, Programmable Electronic Systems (IEC 601-1-4), Clause 48, Biocompatibility (ISO 10993-1), Clause 36, Electromagnetic Compatibility (IEC 601-1-2)

The product is Classified only to the following hazards: Shock, Fire, Casualty

The degree of protection against harmful ingress of water is: Ordinary

The mode of operation is: Continuous

Software is relied upon for meeting safety requirements related to mechanical, fire and shock: No

The product is suitable for use in the presence of a flammable anesthetics mixture with air or oxygen or with nitrous oxide: No

Engineering Conditions of Acceptability

When installed in an end-product, consideration must be given to the following:

DI/RI is provided between the primary and the output of the power supply. DI/RI is also provided between the primary and enclosure. --

The power supplies covered by this report are components, which are intended for use in end-use products used in a hospital or related health care facility, evaluated to the Standard for Medical Equipment. --

The power supplies have been evaluated as Class I, continuous operation, ordinary equipment and have not been evaluated for use in the presence of a flammable anesthetic mixture with air, oxygen or nitrous oxide. --

The power supplies have not been evaluated for patient connection (Type B, BF or CF). --

Leakage current, temperature and dielectric strength testing should be repeated as part of the end-use product evaluation. --

These products require electrical and fire enclosures as part of the end product. --

Since this unit is for building-in to an end product, the connectors within the end product provide the method of disconnection from the input source. --

This unit utilizes both input/output connectors and output terminal blocks. The input/output connectors are not acceptable for field connections and are only intended for connection to mating connectors of internal insulating materials and temperatures should be considered. --

The input circuit includes only one fuse in the line input. A second fuse must be included in the end product, per consideration of Sub-clause 57.6 of UL 60601-1. --

Testing to IEC 60601-1-2 was not conducted by UL and no supporting evidence of compliance has been presented. When submitting this Test Report to another Certification Body, the manufacturer is responsible for providing any additional information that the Body may need in order to issue the Mark, including testing for compliance with the applicable collateral standards. --

Model Series utilizes a Class B (130) Insulation System by Globtek designated GTX-1; or Class B (130) Insulation System by Young-Shang designated YSE-0510 or YSE-0522; or Class B (130) Insulation System by Volt designated R152D, R172D, TVT-130, DASH 2B-5 or GH-130; or Class B (130) Insulation System by Yao Sheng designated YST-JC-1, M7A90, M7AGHB, M7ADEW, or DASH 2B-5A. --

The product was evaluated in a Pollution Degree 2 environment. --

Temperatures were evaluated for use in a 40 degree C ambient. --

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

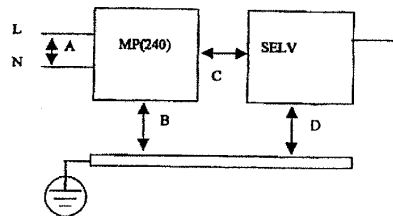
3	GENERAL REQUIREMENTS		N/A
3.1	Equipment when transported, stored, installed, operated in normal use and maintained according to the instructions of the manufacturer, causes no safety hazard which could reasonably be foreseen and which is not connected with its intended application in normal condition (N.C.) and in single fault condition (S.F.C.)		N/A
3.4	An alternative means of construction is used to that detailed in this standard and it can be demonstrated that an equivalent degree of safety is obtained		N/A

5	CLASSIFICATION		Pass
5.1	Type of protection against electric shock		Pass
	Class I equipment		Pass
	Class II equipment	Not Class II equipment	N/A
	Internally powered equipment		N/A
5.2	Degree of protection against electric shock		N/A
	Type B applied part	To be evaluated in the end product.	N/A
	Type BF applied part		N/A
	Type CF applied part		N/A
	Not classified - no applied parts		Pass
5.3	Classification according to the degree of protection against ingress of water as detailed in the current edition of IEC 529 (see 6.1.1)..... :		N/A
5.4	Methods of sterilization or disinfection		N/A
5.5	Equipment not suitable for use in the presence of flammable mixtures		Pass
	Category AP equipment		N/A
	Category APG equipment		N/A
5.6	Mode of operation:		Pass
	-continuous operation	Intended for continuous operation at rated load.	Pass
	-short-time operation, specified operation; period. :		-

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

	-intermittent operation, specified operation; rest period..... :		-
	-continuous operation with short-time, stated permissible loading time :		-
	-continuous operation with intermittent, stated permissible loading/rest time :		-

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

INSULATION DIAGRAM**INSULATION DIAGRAM**

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

TABLE: to insulation diagram							
Area	Insulation type: operational / basic / supplementary / double / reinforced	Reference voltage (V)	Required creepage (mm)	Required clearance (mm)	Measured creepage (mm)	Measured clearance (mm)	Remarks
A	Operational	264	3.0	1.6	5.0	5.0	Passed
B	Reinforced	264	8.0	5.0	10.0	6.5	Passed
C	Reinforced	264	8.0	5.0	12.0	6.5	Passed
D	Basic	264	4.0	2.5	4.5	3.0	Passed

INSULATION DIAGRAM CONVENTIONS

Insulation diagram is a graphical representation of equipment insulation barriers, protective impedance and protective earthing. If feasible, use the following conventions to generate the diagram:

1. All isolation barriers are identified by letters between separate parts of diagram, for example separate transformer windings, optocouplers, wire insulation, creepage and clearance distances.
2. Parts connected to earth with large dots are protectively earthed. Other connections to earth are functional.
3. Applied parts are extended beyond the equipment enclosure and terminated with an arrow.
4. Parts accessible to the operator only are extended outside of the enclosure, but are not terminated with an arrow.
5. Blocks containing the letter "Z" indicate protective impedance.
6. Operational Insulation (OP) - indicates insulation that may be required for function of the equipment, but is not required or relied on for compliance with the requirements of clauses 17, 20 and 57.

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

6	IDENTIFICATION, MARKING AND DOCUMENTS		Pass
6.1	Marking on the outside of equipment or equipment parts		Pass
6.1c	Markings of the specific power supply affixed		Pass
6.1d	If marking is not practicable due to size or nature of enclosure, information is included in accompanying documents		N/A
6.1e	Name and/or trademark of the manufacturer or supplier	Same as applicant	Pass
6.1f	Model or type reference	GTM9250 Series	Pass
6.1g	Rated supply voltages or voltage range(s)	100-240Vac	Pass
	Number of phases	Single	Pass
	Type of current.....	AC	Pass
6.1h	Rated frequency or rated frequency range(s) (Hz) :	50/60	Pass
6.1j	Rated power input (VA, W or A)	4 A	Pass
6.1k	Power output of auxiliary mains socket - outlets		N/A
6.1l	Class II symbol		N/A
	Symbol for degree of protection against ingress of water provided		N/A
	Symbol for protection against electric shock	No applied parts.	N/A
	If equipment has more than one applied part with different degrees of protection, the relevant symbols are clearly marked on such applied parts, or on or near relevant outlets		N/A
	Symbol for protection of defibrillation-proof applied parts		N/A
	Symbol 14 from Table DI for defibrillation-proof with protection partly in patient cable		N/A
6.1m	Mode of operation (if no marking, suitable for continuous operation)		N/A
6.1n	Types and rating of external accessible fuses..... :		N/A
6.1p	Ratings of external output:..... :		N/A
6.1q	Symbol for physiological effect(s):		N/A
	- attention, consult accompanying documents		N/A
	- non-ionizing radiation, or symbols as adopted by ISO or IEC 417		N/A
6.1r	Anaesthetic-proof symbol: AP or APG		N/A

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict
6.1s	Dangerous voltage symbol		N/A
6.1t	Special cooling requirements		N/A
6.1u	Limited mechanical stability	for building-in	N/A
6.1v	Protective packing requirement(s)		N/A
	- Marking(s) for unpacking safety hazard(s)		N/A
	- Equipment or accessories supplied sterile, marked as sterile		N/A
6.1y	Potential equalization terminal		N/A
	- Functional earth terminal		N/A
6.1z	Removable protective means		N/A
	Durability of marking test	(see appended table 6.1)	Pass
6.2	Marking on the inside of equipment or equipment parts		Pass
6.2a	Nominal voltage of permanently installed equipment		N/A
6.2b	Maximum power loading for heating elements or holders for heating lamps		N/A
6.2c	Dangerous voltage symbol		N/A
6.2d	Type of battery and mode of insertion		N/A
	- Marking referring to accompanying documents used for battery not intended to be changed by the operator		N/A
6.2e	Fuses accessible with a tool identified either by type and rating or by a reference to diagram	Fuse ratings silk screened on PWB (rating dependent upon model input current; marking of 4 A max. for this series)	Pass
6.2f	Protective earth terminal	The earth terminal is marked with the standard earth symbol (IEC 417 No. 5017) near the terminal.	Pass
6.2g	Functional earth terminal	No functional earth terminal.	N/A
6.2h	Supply neutral conductor in permanently installed equipment (N)	Not a permanently connected device.	N/A
6.2j	Markings required in 6.2 f), h), k), and l) remain visible after connection and are not affixed to parts which have to be removed		N/A
	- Markings comply with IEC 445		N/A

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict
6.2k	For permanently connected devices the supply connections are clearly marked adjacent to the terminals (or in accompanying documents for small equipment)		N/A
6.2l	Statement for suitable wiring materials at temperatures over 75°C		N/A
6.2n	Capacitors and/or circuit parts marked as required in Sub-clause 15c		N/A
6.3	Marking of controls and instruments		N/A
6.3a	Mains switch clearly identified	No switch provided.	N/A
	- ON and OFF positions marked according to Symbols 15 and 16 of table D1 or indicated by an adjacent indicator light		N/A
6.3b	Indication of different positions of control devices and switches		N/A
6.3c	Indication of the direction in which the magnitude of the function changes, or an indicating device		N/A
6.3f	The functions of operator controls and indicators are identified		N/A
6.3g	Numeric indications of parameters are in SI units except for units listed in Am. 2		N/A
6.4	Symbols		Pass
	Used symbols comply with Appendix D or IEC 417 and/or IEC 878 or ISO publications (if applicable)	In accordance with Appendix D.	Pass
6.5	Colors of the insulation of conductors		N/A
6.5a	Protective earth conductor has green/yellow insulation		N/A
6.5b	All insulations of internal protective earth conductors are green/yellow at least at their terminations		N/A
6.5c	Only protective or functional earthing, or potential equalization conductors are green/yellow		N/A
6.5d	Color of neutral conductor		N/A
6.5e	Colors of phase conductor(s)		N/A
	- Compliance with IEC 227 and IEC 245		N/A
6.5f	Additional protective earthing in multi-conductor, cords are marked green/yellow at the ends of the additional conductors		N/A
6.6	Medical gas cylinders and connections		N/A

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict
6.6a	In accordance with ISO ISO/R 32		N/A
6.6b	Identification of connection point		N/A
6.7	Indicator lights and push-buttons		N/A
6.7a	Red indicator lights used exclusively to indicate a warning of danger and/or a need for urgent action		N/A
	- Yellow used to indicate caution or attention required		N/A
	- Green used to indicate ready for action		N/A
6.7b	Color red used only for push-buttons by which a function is interrupted in case of emergency		N/A
6.8	ACCOMPANYING DOCUMENTS		N/A
6.8.1	Equipment accompanied by documents containing at least instructions for use, a technical description and an address to which the user can refer	To be evaluated in the end product.	N/A
	Classifications specified in Clause 5 included in both the instructions for use and the technical description		N/A
	Markings specified in Sub-clause 6.1 included in the accompanying documents if they have not been permanently affixed to equipment		N/A
	Warning statements and the explanation of warning symbols provided in the accompanying documents		N/A
6.8.2	Instructions for use		N/A
6.8.2a	General information provided in instructions for use		N/A
	- state the function and intended application of the equipment		N/A
	- include an explanation of: the function of controls, displays and signals		N/A
	- the sequence of operation		N/A
	- the connection and disconnection of detachable parts and accessories		N/A
	- the replacement of material which is consumed during operation		N/A
	- information regarding potential electromagnetic or other interference and advice regarding avoidance		N/A
	- include: indications of recognized accessories, detachable parts and materials, if the use of other parts or materials can degrade minimum safety		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

	- instructions concerning cleaning, preventive inspection and maintenance to be performed including the frequency of such maintenance		N/A
	General information provided in instructions:		N/A
	- information for the safe performance of routine maintenance		N/A
	- parts on which preventive inspection and maintenance shall be performed by other persons including the periods to be applied		N/A
	- explanation of figures, symbols, warning statements and abbreviations on the equipment	Responsibility of explanation is up to end product manufacturer.	N/A
6.8.2c	Signal output or signal input parts intended only for connection to specified equipment described		N/A
6.8.2d	Details about acceptable cleaning, disinfection or sterilization methods included		N/A
6.8.2e	Warning statement for mains operated equipment with additional power source		N/A
6.8.2f	A warning to remove primary batteries if equipment is not likely to be used for some time		N/A
6.8.2g	Instructions to ensure safe use and adequate maintenance of rechargeable batteries		N/A
6.8.2h	Identification of specified external power supplies or battery chargers necessary to ensure compliance with the requirements of IEC 601-1		N/A
6.8.2j	Identification of any risks associated with the disposal of waste products, residues, etc.		N/A
	- Advice in minimizing these risks		N/A
6.8.3	Technical description		N/A
6.8.3a	All characteristics essential for safe operation provided		N/A
6.8.3b	Required type and rating of fuses utilized in the mains supply circuit external to permanently installed equipment		N/A
	- Instructions for replacement of interchangeable and/or detachable parts which are subject to deterioration during normal use		N/A
6.8.3c	Instructions or reference information for repair of equipment parts designated by the manufacturer as repairable provided		N/A

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

6.8.3d	Environmental conditions for transport and storage specified in accompanying documents and marked on packaging		N/A
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7	POWER INPUT		Pass
	Power Input Measurements	(see appended table 7)	Pass

10	ENVIRONMENTAL CONDITIONS		Pass
10.1	Equipment is capable while packed for transport or storage of being exposed to the conditions stated by the manufacturer		Pass
10.2.2a	Rated voltage not exceeding 250 V for hand-held equipment		N/A
	Rated voltage not exceeding 250 V d.c. or single-phase a.c. or 500 V polyphase a.c. for equipment up to 4kVA	Single phase, 100-240Vac	Pass
	Rated voltage not exceeding 500 V for all other equipment		N/A
	Rated input frequency not more than 1kHz	50/60Hz	Pass
10.2.2b	Internal replaceable electrical power source specified		N/A

14	REQUIREMENTS RELATED TO CLASSIFICATION		Pass
14.4a	Class I and Class II equipment in addition to basic insulation provided with an additional protection	Class I unit.	Pass
14.4b	Equipment supplied from external dc source of reverse polarity results in no safety hazard	AC only.	N/A
14.5a	Dual classification for internally powered equipment with a means of connection to supply mains	Not for internally powered equipment.	N/A
14.5b	Internally powered equipment complies with requirements for Class I or Class II equipment while connected to supply mains, and with requirements for internally powered equipment when not connected	Not for internally powered equipment.	N/A
14.6c	Applied parts intended for direct cardiac application are of type CF		N/A

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

15	LIMITATION OF VOLTAGE AND/OR ENERGY		N/A
15b	Voltage measured one sec after disconnection of the mains plug does not exceed 60V	(see appended table 15b)	N/A
15c	For live parts accessible after equipment has been de-energized the residual voltage does not exceed 60 V nor residual energy exceed 2 mJ		N/A
	Marking provided for manual discharging		N/A

16	ENCLOSURES AND PROTECTIVE COVERS		Pass
16a	Equipment enclosed to protect against contact with live parts, and with parts which can become live (finger, pin, hook test)		Pass
	Insertion or removal of lamps - protection against contact with live parts provided		N/A
16b	Opening in a top cover positioned that accessibility of live parts by a test rod is prevented	No top openings.	N/A
16c	Conductive parts accessible after the removal of handles, knobs, levers		N/A
	- have a resistance of not more than 0.2 Ohm		N/A
	- separated from live parts by one of the means described in Sub-clause 17g		N/A
16d	Parts with voltage exceeding 25V a.c. or 60V d.c. which cannot be disconnected by external mains switch or plug protected against contact		N/A
16e	Removable enclosures protecting against contact with live parts		Pass
	- Removal possible only with the aid of a tool		Pass
	- Use of automatic device making parts not live when the enclosure is opened or removed		N/A
	- Exception 16e applied to the following parts..... :		N/A
16f	Openings for the adjustment of controls using a tool. The tool not able to touch basic insulation or any live parts		N/A

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

17	SEPARATION		Pass
17a	Separation method of the applied part from live parts:		N/A
	1) basic insulation: applied part earthed	No applied part.	N/A
	2) by protectively earthed conductive part (e.g. screen)		N/A
	3) by separate earthed intermediate circuit limiting leakage current to applied part in event of insulation failure		N/A
	4) by double or reinforced insulation		N/A
	5) by protective impedances limiting current to applied part		N/A
	- Additional leakage current test in single fault conditions		N/A
17c	There is no conductive connection between applied parts and accessible conductive parts which are not protectively earthed		N/A
17d	Supplementary insulation between hand-held flexible shafts and motor shafts (Class I)		N/A
17g	Separation method of accessible parts other than applied parts from live parts:		Pass
	1) basic insulation: accessible part earthed		N/A
	2) by protectively earthed conductive part (e.g. screen)		N/A
	3) by separate earthed intermediate circuit limiting leakage current to enclosure in event of insulation failure		N/A
	4) by double or reinforced insulation		Pass
	5) by protective impedances limiting current to accessible part		N/A
	- Additional leakage current test in single fault conditions		N/A
17h	Arrangements used to isolate defibrillation-proof applied parts so designed that:		N/A
	- no hazardous electrical energies appear during a discharge of a cardiac defibrillator		N/A
	- after exposure to the defibrillation voltage, the equipment continues to perform its intended function		N/A

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

18	PROTECTIVE EARTHING, FUNCTIONAL EARTHING AND POTENTIAL EQUALIZATION		Pass
18a	Accessible parts of Class I equipment separated from live parts by basic insulation connected to the protective earth terminal	Unit for building in; no accessible parts.	Pass
18b	Protective earth terminals suitable for connection to the protective earth conductor		Pass
18e	Potential equalization conductor		N/A
	- Readily accessible		N/A
	- Accidental disconnection prevented in normal use		N/A
	- Conductor detachable without the use of a tool		N/A
	- Power supply cord does not incorporate a potential equalization conductor		N/A
	- Connection means marked with Symbol 9, Table DI		N/A
18f	For equipment without power supply cord, impedance between protective earth terminal and accessible metal part $\leq 0.1 \text{ Ohm}$		N/A
	- For equipment with an appliance inlet, impedance between protective earth contact and any accessible metal part $\leq 0.1 \text{ Ohm}$		N/A
	- For equipment with a non-detachable power supply cord, impedance between protective earth pin in mains plug and accessible metal part $\leq 0.2 \text{ Ohm}$		N/A
18g	If the impedance of protective earth connections other than in Cl. 18 f) exceeds 0.1 Ohm , the allowable value of the enclosure leakage current is not exceeded in single fault condition		N/A
18k	Functional earth terminal not used to provide protective earthing		N/A
18l	Class II equipment with isolated internal screens		N/A
	- insulation of screens and all internal wiring connected to them is double insulation or reinforced insulation		N/A
	- functional earth terminal clearly marked		N/A
	- explanation of functional earth terminal provided in the accompanying documents		N/A

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

19	CONTINUOUS LEAKAGE CURRENTS AND PATIENT AUXILIARY CURRENTS		Pass
19.1b	Leakage currents	(see appended table 19)	Pass
	- earth leakage current		Pass
	- enclosure leakage current		N/A
	- patient leakage current		N/A
	- patient auxiliary current		N/A

20	DIELECTRIC STRENGTH		Pass
	Overall compliance with Clause 20	(see appended table 20)	Pass

21	MECHANICAL STRENGTH		N/A
21a	Sufficient rigidity of an enclosure tested by: force of 45 N	(see appended table 21)	N/A
21b	Sufficient strength of an enclosure tested by: impact hammer	(see appended table 21)	N/A
21c	On portable equipment carrying handles or grips withstand the requirements of the loading test		N/A
21.3	No damage to parts of patient support and/or immobilization system after the loading test		N/A
21.5	Hand held equipment or equipment parts are safe after drop test		N/A
21.6	Portable and mobile equipment is able to withstand rough handling		N/A

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

22	MOVING PARTS		N/A
22.2a	Moving parts of a transportable equipment are provided with guards which form an integral part of the equipment	No moving parts.	N/A
22.2b	Moving parts of a stationary equipment are provided with similar guards as above, unless it is evident that equivalent protection is separately provided during installation		N/A
22.3	Cords (ropes), chains and bands are provided with guides to prevent them from running off or from jumping out of their guiding devices		N/A
	Guides or other safeguards are removable only with a tool		N/A
22.4	Dangerous movements of equipment parts, which may cause physical injury to the patient, are possible only by the continuous activation by the operator		N/A
22.6	Parts of equipment subject to mechanical wear are accessible for inspection		N/A
22.7	Means provided for emergency switching of an electrically produced mechanical movement which could cause a safety hazard		N/A
	The means for emergency switching is readily identifiable and accessible and does not introduce a further safety hazard		N/A
	Devices for emergency stopping able to break the full load current of the relevant circuit, taking into account possible stalled motor currents		N/A
	Means for stopping of movements operate as a result of one single action		N/A

23	SURFACES, CORNERS AND EDGES		Pass
	Rough surfaces, sharp corners and edges which may cause injury or damage avoided or covered		Pass

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

24	STABILITY IN NORMAL USE (see appended table 24)		N/A
24.1	Equipment does not overbalance during normal use when tilted through an angle of 10°	To be evaluated in the end product.	N/A
24.3	Equipment overbalances when tilted through an angle of 10°		N/A
	- does not overbalance when tilted through an angle of 5° in any position excluding transport		N/A
	- carry a warning notice stating that transport should only be undertaken in a certain position		N/A
	- in the position specified for transport does not overbalance when tilted to an angle of 10°		N/A
24.6a	Equipment or its parts with a mass of more than 20 kg is provided with:		N/A
	- suitable handling devices (grips etc.), or		N/A
	- instructions for lifting and handling during assembly		N/A
24.6b	On portable equipment with a mass of more than 20 kg carrying handle(s) is (are) so situated that equipment may be carried by 2 or more persons		N/A

25	EXPELLED PARTS		N/A
25.1	Protective means are provided where expelled parts of the equipment could be a hazard		N/A
25.2	Display vacuum tubes with a face dimension exceeding 16 cm are provided with adequate protection against implosion		N/A

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

28	SUSPENDED MASSES		N/A
28.3	Suspension system with safety device		N/A
	Safety device provided where the integrity of a suspension depends on parts which may have hidden defects, or on parts having safety factors not complying with Sub-clause 28.4		N/A
	Safety device has safety factors complying with Sub-clause 28.4.2		N/A
	Clear indication to the operator that the safety device has been activated after failure of suspension means		N/A
28.4	Suspension systems of metal without safety devices		N/A
	1) Total load does not exceed the safe working load		N/A
	2) Safety factors not less than 4 where it is unlikely that supporting characteristics will be impaired		N/A
	3) Safety factors not less than 8 where impairment is expected		N/A
	4) Safety factors multiplied by 1.5 for metal having an elongation at break of less than 5%		N/A
	5) Sheaves, sprockets, band wheels and guides so constructed that the safety factors maintained till replacement		N/A

29	X-RADIATION		N/A
29.2	EQUIPMENT not intended to produce X-radiation produces an exposure $\leq 130 \text{ nC/kg}$ (0.5 mR)		N/A

36	ELECTROMAGNETIC COMPATIBILITY		N/A
	Equipment complies with IEC 601-1-2	Not evaluated by Underwriters Laboratories Inc.	N/A

37	COMMON REQUIREMENTS FOR CATEGORY AP AND CATEGORY APG EQUIPMENT		N/A
	Requirements for category AP and APG equipment (Cl. 37 - 41)		N/A

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

42	EXCESSIVE TEMPERATURES		Pass
42.1	Equipment does not attain temperatures exceeding the values given in Table Xa over the range of ambient temperatures per Clause 10.2.1	(see appended table 42)	Pass
42.2	Equipment does not attain temperatures exceeding the values given in Table Xb at 25°C ambient		Pass
42.3	Applied parts not intended to supply heat have surface temperatures not exceeding 41°C	No applied parts.	N/A
42.5	Guards to prevent contact with hot surfaces removable only with a tool		N/A

43	FIRE PREVENTION		Pass
	Strength and rigidity necessary to avoid a fire hazard		Pass

44	OVERFLOW, SPILLAGE, LEAKAGE, HUMIDITY, INGRESS OF LIQUIDS, CLEANING, STERILIZATION AND DISINFECTION		Pass
44.2	Equipment contain a liquid reservoir:		N/A
	- the equipment is electrically safe after 15% overfill steadily over a period of 1 min		N/A
	- transportable equipment is electrically safe after additionally having been tilted through an angle of 15° in the least favorable direction(s) (if necessary with refilling)		N/A
44.3	Electrical properties of the equipment do not change in connection of spillage test (200 ml of water)		N/A
44.4	Liquid which might escape in a single fault condition does not wet parts which may cause a safety hazard		N/A
44.5	Equipment sufficiently protected against the effects of humidity	(see appended table 44)	Pass
44.6	Enclosures designed to give a protection against harmful ingress of water classified according to IEC Publication 529	Ordinary protection (IPX0) considered. Other IP must be considered in the end use.	N/A
44.7	Equipment capable of withstanding cleaning, sterilization or disinfection without deterioration of safety provisions		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

45	PRESSURE VESSELS AND PARTS SUBJECT TO PRESSURE		N/A
45.2	Pressure vessel with pressure volume greater than 200 kPa x l and pressure greater than 50 kPa withstand the hydraulic test pressure		N/A
45.3	Maximum pressure does not exceed the maximum permissible working pressure for individual parts		N/A
45.7	Unless excessive pressure can not occur, pressure-relief device provided		N/A
45.7a	a) Pressure-relief device connected as close as possible to the pressure vessel		N/A
45.7b	b) Readily accessible for inspection		N/A
45.7c	c) Not capable of being adjusted or rendered inoperative without a tool		N/A
45.7d	d) Discharge opening located that the released material is not directed towards person		N/A
45.7e	e) Discharge opening located that operation will not deposit material which may cause a safety hazard		N/A
45.7f	f) Adequate discharge capacity to ensure pressure does not exceed the maximum permissible working pressure		N/A
45.7g	g) No shut-off valve between a pressure-relief device and the parts intended to be protected		N/A
45.7h	h) Minimum number of cycles of operation: 100.000		N/A

48	BIOCOMPATIBILITY		N/A
	Parts of equipment and accessories intended to come into contact with biological tissues, cells or body fluids are evaluated in accordance with ISO 10993-1		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

49	INTERRUPTION OF THE POWER SUPPLY		N/A
49.1	Thermal cut-outs and over-current releases with automatic resetting not used if they may cause a safety hazard	To be evaluated in the end product.	N/A
49.2	Interruption and restoration of power supply does not result in a safety hazard other than interruption of intended function		N/A
49.3	Means are provided for removal of mechanical constraints on patient in case of a supply mains failure		N/A

51	PROTECTION AGAINST HAZARDOUS OUTPUT		N/A
51.4	Equipment furnishing both low-intensity and high-intensity outputs provided with means minimizing possibility of a high intensity output being selected accidentally		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

52	ABNORMAL OPERATION AND FAULT CONDITIONS		Pass
52.1	Equipment is so designed and manufactured that even in single fault condition no safety hazard as described under 52.4 exists (see 3.1 and Cl. 13)	(see appended table 52)	Pass
	The safety of equipment incorporating programmable electronic systems is checked by applying IEC 601-1-4		N/A
52.5.2	Failure of thermostats presents no safety hazards		N/A
52.5.3	Short-circuiting of either part of double insulation presents no safety hazard		Pass
52.5.5	Impairment of cooling: temperatures not exceeding 1.7 times the values of Clause 42 minus 17.5°C	(see appended table 52)	Pass
52.5.6	Locking of moving parts presents no safety hazard		N/A
52.5.7	Interruption and short-circuiting of motor capacitors presents no safety hazard		N/A
52.5.8	Duration of motors locked rotor test in compliance with Cl. 52.5.8		N/A
52.5.9	Failure of one component at a time presents no safety hazard	(see appended table 52)	Pass
52.5.10	Overload of heating elements presents no safety hazard		N/A
52.5.10f	Motors intended to be remotely controlled, automatically controlled, or liable to be operated continuously provided with running overload protection		N/A
52.5.10h	Equipment with three-phase motors can safely operate with one phase disconnected		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

56	COMPONENTS AND GENERAL ASSEMBLY		Pass
	List of critical components	(see appended table 56.1)	Pass
56.1b	Ratings of components not in conflict with the conditions of use in equipment		Pass
	Ratings of mains components are identified		Pass
56.1d	Components, movements of which could result in a safety hazard mounted securely		Pass
56.1f	Conductors and connectors secured and/or insulated to prevent accidental detachment resulting in a safety hazard	Internal wire is secured and/or insulated to prevent accidental detachment resulting in a safety hazards.	Pass
56.3a	Connectors provide separation required by Sub-clause 17g		N/A
	Plugs for connection of patient circuit leads can not be connected to other outlets on the same equipment		N/A
	Medical gas connections not interchangeable		N/A
56.3b	Accessible metal parts can not become live when detachable interconnection cord between different parts of equipment is loosened or broken		N/A
56.3c	Leads with conductive connection to a patient are constructed such that no conductive connection remote from the patient can contact earth or hazardous voltages.		N/A
56.4	Connections of capacitors		Pass
	Not connected between live parts and non-protectively earthed accessible parts		Pass
	If connected between mains part and protectively earthed metal parts comply with: IEC Publication 384-14		N/A
	Enclosure of capacitors connected to mains part and providing only basic insulation, is not secured to non-protectively earthed metal parts		Pass
	Capacitors or other spark-suppression devices are not connected between contacts of thermal cut-outs		N/A
56.5	Protective devices which cause disconnection from the supply mains by producing a short-circuit not provided in equipment		Pass
56.6	Temperature and overload control devices		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
56.6a	Thermal cut-outs which have to be reset by a soldering not fitted in equipment		N/A
	Thermal safety devices provided where necessary to prevent operating temperatures exceeding the limits		N/A
	Audible warning provided where the loss of function caused by operation of a thermal cut-out presents a safety hazard		N/A
	Self-resetting thermal cut-outs and self-resetting over-current releases operated 200 times		N/A
	Non-self resetting over-current releases operated 10 times		N/A
	Independent non-self-resetting thermal cut-out provided where a failure of a thermostat could constitute a safety hazard		N/A
56.6b	Thermostats with varying temperature settings clearly indicated		N/A
	Operating temperature of thermal cut-outs indicated		N/A
56.7	Batteries		N/A
56.7a	Battery compartments:		N/A
	- adequately ventilated		N/A
	- accidental short-circuiting is prevented		N/A
56.7b	Incorrect polarity of connection prevented		N/A
56.8	Indicators - unless indication provided by other means (from the normal operation position), indicator lights are used (color see 6.7):		N/A
	- to indicate that equipment is energized		N/A
	- to indicate the operation of non-luminous heaters if a safety hazard could result		N/A
	- to indicate when output exists if a safety hazard could result		N/A
	- charging mode indicator provided		N/A
56.10	Actuating parts of controls		N/A
56.10b	Actuating parts are adequately secured to prevent them from working loose during normal use		N/A
	Controls are secured to prevent the movement relative to scale marking (safety related only)		N/A
	Detachable indicating devices are prevented from		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

	incorrect connection without the use of tool		
56.10c	Stops are provided on rotating controls:		N/A
	- to prevent an unexpected change from maximum to minimum or vice versa where this could produce a safety hazard		N/A
	- to prevent damage to wiring		N/A
56.11	Cord-connected hand-held and foot-operated control devices		N/A
56.11a	Contain voltages not exceeding 25 V a.c. or 60 V d.c. and isolated from the mains part by Cl. 17g		N/A
56.11b	Hand-held control devices comply with the requirement and test of Sub-clause 21.5		N/A
	- Foot-operated control devices designed to support the weight of an adult human being		N/A
56.11c	Devices not change their setting when inadvertently placed		N/A
56.11d	Foot-operated control devices are at least IPX 1		N/A
	- For surgical use, electrical switching parts are IPX 8		N/A
56.11e	Adequate strain relief at the cord entry provided		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

57	MAINS PARTS, COMPONENTS AND LAYOUT		Pass
57.1	Isolation from supply mains		Pass
57.1a	Equipment provides means to isolate its circuits electrically from the supply mains on all poles simultaneously	To be provided in the end product evaluation	N/A
	Means for isolation incorporated in equipment or, if external, specified in the accompanying documents		Pass
57.1d	Switches used to comply with Sub-clause 57.1a comply with the creepage distances and air clearances as specified in IEC Publication 328	No switch.	N/A
57.1f	Mains switches not incorporated in a power supply cord	No switch.	N/A
57.1h	Appliance couplers and flexible cords with mains plugs provide compliance with Sub-clause 57.1a	.	N/A
57.1m	Fuses and semiconductor devices not used as isolating devices		N/A
57.2	Mains connectors and appliance inlets		N/A
57.2e	Auxiliary mains socket-outlets on non-permanently installed equipment of a type that cannot accept a mains plug		N/A
57.2g	Unless functional earth needs to be provided, Class I appliance inlet is not used in Class II equipment		N/A
57.3	Power supply cords		N/A
57.3a	Not more than one connection to a particular supply mains		N/A
	If alternative supply allowed, no safety hazards when more than one connection is made simultaneously	Only one supply a time.	N/A
	The mains plug has only one power supply cord		N/A
	Non-permanently connected equipment provided with power supply cord or appliance inlet		N/A
57.3b	Power supply cords sufficiently robust to comply with the requirements of IEC 227, designation 53 and IEC 245, designation 53		N/A
	Polyvinyl chloride insulated power supply cords not used for equipment having external metal parts with a temperature exceeding 75°C		N/A
57.3c	Nominal cross-sectional area of conductors of power supply cords not less than in Table XV		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
57.3d	Stranded conductors not soldered if fixed by any clamping means		N/A
57.4	Connection of power supply cords		N/A
57.4a	Cord anchorages		N/A
	Equipment provided with power supply cords has cord anchorages such that the conductors are relieved from strain, including twisting		N/A
	Tying the cord into a knot or tying the ends with string not used		N/A
	Cord anchorages made of insulating material or metal insulated from unearthed accessible metal parts by supplementary insulation		N/A
	Cord anchorages made of metal provided with an insulating lining		N/A
	Clamping screws do not bear directly on the cord insulation		N/A
	Screws associated with cable replacement are not used to secure other components		N/A
	Conductors of the power supply cord arranged that the protective earth conductor is not subject to strain as long as the phase conductors are in contact with their terminals		N/A
57.4b	Power supply cord protected against excessive bending		N/A
57.4c	Adequate space inside equipment to allow the supply cable conductors to be introduced and connected		N/A
57.5	Mains terminal devices and wiring of mains part		N/A
	Mains connected equipment other than those with a detachable supply cord provided with mains terminals, where connections are made with screws, nuts or equally effective methods		N/A
	If a conductor breaks away, barriers are provided such that creepage distances and air clearances cannot be reduced		N/A
	Screws and nuts which clamp external conductors not serve to fix any other component		N/A
57.5b	Terminals closely grouped with any protective earth terminal		N/A
	Mains terminal devices accessible only with use of a tool		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Mains terminal devices located or shielded that, should a wire of a stranded conductor escape when the conductors are fitted, there is no risk of accidental contact		N/A
57.5c	Internal wiring not subjected to stress when the means for clamping the conductors are tightened or loosened		N/A
57.5d	Cord terminals not require special preparation of the conductor		N/A
57.6	Mains fuses and overcurrent releases		Pass
	Fuses or over-current releases provided accordingly for Class I and Class II		Pass
	Current rating of mains fuses and over-current releases such that they reliably carry the normal operating current		Pass
	Protective earth conductor not fused		N/A
	Neutral conductor not fused for permanently installed equipment		N/A
57.8	Wiring of the mains part		Pass
57.8a	Individual conductor in the mains part with insulation not at least electrically equivalent to that of the individual conductors of flexible supply cords complying with IEC Publications 227 or 245, treated as bare conductor		Pass
57.8b	Cross-sectional area of conductors up to protective device not less than the minimum required for the power supply cord		N/A
	Cross-sectional area of other wiring and the sizes of tracks on printed wiring circuits sufficient to prevent any fire hazard		Pass
57.9	Mains supply transformers		Pass
57.9.1	Overheating		Pass
	External to the transformer protective devices connected in such a way that failure of any component cannot render the protective devices inoperative		Pass
57.9.1a	Short-circuit of secondary windings not caused excessive temperature	(see appended table 57.9.1a)	Pass
57.9.1b	Overload of secondary windings not caused excessive temperature	(see appended table 57.9.1b)	Pass

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Clause	Requirement + Test	Result - Remark	Verdict
57.9.2	The dielectric strength of the electrical insulation of a mains supply transformer such that it passes tests		N/A
57.9.4	Construction		Pass
57.9.4a	Separation of primary and secondary windings	Double insulation provided.	Pass
	- separate bobbins or formers		N/A
	- one bobbin with insulating partition		N/A
	- one bobbin with concentric windings and having copper screen with a thickness of not less than 0.13 mm		N/A
	- concentrically wound on one bobbin with windings separated by double insulation		Pass
57.9.4c	Means provided to prevent displacement of end turns	Margin tape used to prevent displacement.	Pass
57.9.4d	Insulated overlap of not less than 3 mm if a protective earthed screen has only one turn		N/A
57.9.4e	Insulation between the primary and secondary in transformers with double insulation		Pass
	- 1 insulation layer having a thickness of at least 1 mm		N/A
	- at least 2 insulation layers with a total thickness of at least 0.3 mm		N/A
	- three layers provided that each combination of two layers can withstand the dielectric strength test for reinforced insulation	Triple insulation wire used in secondary winding and provide six layers insulation tape between primary winding and secondary winding. (see table 57.9.2)	Pass
57.9.4g	Exit of the wires of toroidal transformers provided with double sleeving complying with requirements for double insulation and having total thickness at least 0.3 mm extending at least 20 mm outside the winding		N/A
57.10	Creepage distances and air clearances		Pass
57.10a	Values: compliance with at least the values of Table XVI	(see insulation diagram)	Pass
	Creepage distances for slot insulation of motors at least 50% of the specified values		N/A
57.10b	Minimum creepage distances and air clearances in the mains part between parts of opposite polarity	(see insulation diagram)	Pass

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Clause	Requirement + Test	Result - Remark	Verdict

	not required if short-circuiting does not produce a safety hazard		
57.10c	Creepage distances or clearances of at least 4 mm are maintained between defibrillation-proof applied parts and other parts		N/A

58	PROTECTIVE EARTHING - TERMINALS AND CONNECTIONS		Pass
58.1	Clamping means of the protective earth terminal		Pass
	Not be able to loosen without the aid of a tool		N/A
	Screws for internal earth connections are covered or protected against loosening from outside		N/A
58.7	Earth pin of the appliance inlet regarded as the protective earth terminal		N/A
58.8	The protective earth terminal not used for the mechanical connection or the fixing of any component not related to earthing		Pass
58.9	Where the protective earth connections are made via a plug or socket device the protective earth connection is made before and interrupted after the supply connections during connection and interrupting		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

59	CONSTRUCTION AND LAYOUT		Pass
59.1	Internal wiring		Pass
59.1a	Cables and wiring protected against contact with a moving part		N/A
	Wiring having basic insulation only protected by additional fixed sleeving		Pass
	Components are not likely to be damaged in the normal assembly or replacement of covers		Pass
59.1b	Movable leads are not bent around a radius of less than five times the outer diameter of the lead		N/A
59.1c	Insulating sleeving adequately secured		Pass
	If the sheath of a flexible cable or cord is used as supplementary insulation it complies with requirements of IEC 227 and IEC 245 and dielectric test		N/A
	Conductors subjected to temperatures exceeding 70°C have an insulation of heat-resistant material		N/A
59.1d	Aluminum wires of less than 16 mm ² cross-section not used		N/A
59.1f	Connecting cords between equipment parts considered as belonging to the equipment		N/A
59.2	Insulation		Pass
59.2b	Mechanical strength and resistance to heat and fires retained by all types of insulation	(see appended additional test table)	Pass
59.2c	Insulation not likely to be impaired by deposition of dirt or by dust resulting from wear of parts		Pass
	Parts of rubber resistant to ageing		N/A
59.3	Excessive current and voltage protection		Pass
	Internal electrical power source provided with device for protection against fire hazard		N/A
	Fuse elements replaceable without opening the enclosure fully enclosed in a fuseholder		N/A
	Protective devices between an isolated applied part and the body of the equipment do not operate below 500 V r.m.s.		N/A
59.4	Oil containers		N/A
	Oil containers adequately sealed		N/A
	Container allow for the expansion of the oil		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

	Oil containers in mobile equipment sealed to prevent the loss of oil during transport		N/A
	Partially sealed oil-filled equipment or equipment parts provided with means for checking the oil level		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

6.1	TABLE: marking durability		Pass
Marking tested		Remarks	
Ratings Label		No smearing or curling of label	
supplementary information:			
-			

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Clause	Requirement + Test	Result - Remark	Verdict

7	TABLE: power input					Pass
Operating condition	Voltage (V)	Frequency (Hz)	Current (A)	Power (W)	Remarks	
Model GTM9250P753.3	-	-	-	-	-	
Rated Load	90	60	1256	113.0	Test Passed	
Rated Load	100	60	1120	112.0	Test Passed	
Rated Load	120	60	924	110.8	Test Passed	
Rated Load	180	60	607	108.6	Test Passed	
Rated Load	220	60	499	108.0	Test Passed	
Rated Load	240	60	460	107.6	Test Passed	
Rated Load	264	60	506	107.3	Test Passed	
Model GTM9250P1203.3	-	-	-	-	-	
Rated Load	90	60	2014	181.2	Test Passed	
Rated Load	100	60	1792	179.0	Test Passed	
Rated Load	120	60	1471	176.2	Test Passed	
Rated Load	180	60	960	172.4	Test Passed	
Rated Load	220	60	782	171.0	Test Passed	
Rated Load	240	60	716	170.3	Test Passed	
Rated Load	264	60	765	170.0	Test Passed	
Model GTM925P1503.3	-	-	-	-	-	
Rated Load	90	60	2581	232.1	Test Passed	
Rated Load	100	60	2288	228.8	Test Passed	
Rated Load	120	60	1874	224.8	Test Passed	
Rated Load	180	60	1217	218.9	Test Passed	
Rated Load	220	60	987	216.4	Test Passed	
Rated Load	240	60	902	215.4	Test Passed	
Rated Load	264	60	865	214.5	Test Passed	
Model GTM9250P15012	-	-	-	-	-	
Rated Load	90	60	2067	186.0	Test Passed	
Rated Load	100	60	1841	184.0	Test Passed	
Rated Load	120	60	1518	181.8	Test Passed	
Rated Load	180	60	1000	178.9	Test Passed	
Rated Load	220	60	823	178.0	Test Passed	
Rated Load	240	60	760	177.7	Test Passed	
Rated Load	264	60	787	177.5	Test Passed	
Model GTM9250P15048	-	-	-	-	-	
Rated Load	90	60	2111	189.5	Test Passed	
Rated Load	100	60	1875	187.2	Test Passed	
Rated Load	120	60	1539	184.4	Test Passed	
Rated Load	180	60	1016	181.2	Test Passed	
Rated Load	220	60	836	180.0	Test Passed	
Rated Load	240	60	773	179.6	Test Passed	
Rated Load	264	60	800	179.3	Test Passed	
Model GTM9250P25012	-	-	-	-	-	
Rated Load	90	60	3573	321.4	Test Passed	
Rated Load	100	60	3131	313.0	Test Passed	

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Clause	Requirement + Test	Result - Remark	Verdict

Rated Load	120	60	2539	304.7	Test Passed
Rated Load	180	60	1652	296.3	Test Passed
Rated Load	220	60	1346	294.0	Test Passed
Rated Load	240	60	1232	293.1	Test Passed
Rated Load	264	60	1122	291.9	Test Passed
Model GTM9250P25048	-	-	-	-	-
Rated Load	90	60	3446	309.8	Test Passed
Rated Load	100	60	3042	303.7	Test Passed
Rated Load	120	60	2478	297.1	Test Passed
Rated Load	180	60	1617	290.0	Test Passed
Rated Load	220	60	1318	288.0	Test Passed
Rated Load	240	60	1208	287.1	Test Passed
Rated Load	264	60	1100	286.3	Test Passed
Model GTM9250P27012	-	-	-	-	-
Rated Load	90	60	3858	346.7	Test Passed
Rated Load	100	60	3384	338.0	Test Passed
Rated Load	120	60	2754	330.0	Test Passed
Rated Load	180	60	1787	320.4	Test Passed
Rated Load	220	60	1456	317.9	Test Passed
Rated Load	240	60	1334	316.8	Test Passed
Rated Load	264	60	1214	315.7	Test Passed
Model GTM9250P27048	-	-	-	-	-
Rated Load	90	60	3818	343.1	Test Passed
Rated Load	100	60	3350	334.1	Test Passed
Rated Load	120	60	2730	326.1	Test Passed
Rated Load	180	60	1778	316.1	Test Passed
Rated Load	220	60	1451	314.1	Test Passed
Rated Load	240	60	1333	313.1	Test Passed
Rated Load	264	60	1217	312.2	Test Passed

supplementary information:

-

15b	TABLE: residual voltage in attachment plug										N/A
Voltage measured between:	Measurements [V]										Remarks
	1	2	3	4	5	6	7	8	9	10	
supplementary information:											

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Clause	Requirement + Test	Result - Remark	Verdict

15c	TABLE: residual voltage or energy in capacitors				N/A
Capacitor and its location	Residual voltage (V)	Time after disconnection (s)	Capacitance value (μF)	Residual energy (mJ)	Remarks
supplementary information:					

17h1	TABLE: defibrillation-proof applied parts				N/A
Test Condition: Fig. 50 or 51	Accessible part of measurement:	Applied part with test voltage	Test voltage polarity	Measured voltage between Y1 and Y2 (mV)	Remarks
supplementary information:					

17h2	TABLE: defibrillation-proof recovery time				N/A
Applied part with test voltage	Test voltage polarity	Recovery time from accompanying documents (s)	Measured recovery time (s)	Remarks	
supplementary information:					

18	TABLE: protective earthing				Pass
Test location		Test current (A)	Measured voltage (V)	Resistance (ohms)	Remarks
Point farthest away from PE on chassis		40	12	0.0011	2 mins.
supplementary information:					
-					

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Clause	Requirement + Test	Result - Remark	Verdict

19	TABLE: leakage current				Pass
Type of leakage current and test condition (including single faults)		Supply voltage (V)	Supply frequency (Hz)	Measured max. value (µA)	Remarks
Model GTM9250P753.3		-	-	-	Earth Leakage Test
Normal Condition (Normal Polarity)		264	60	230	Test Passed
Normal Condition (Reverse Polarity)		264	60	240	Test Passed
Single Fault Condition (Normal Polarity)		264	60	440	Test Passed
Single Fault Condition (Reverse Polarity)		264	60	440	Test Passed
-		-	-	-	-
Model GTM9250P753.3		-	-	-	Earth Leakage Test
Normal Condition (Normal Polarity)		264	60	265	Test Passed
Normal Condition (Reverse Polarity)		264	60	264	Test Passed
Single Fault Condition (Normal Polarity)		264	60	505	Test Passed
Single Fault Condition (Reverse Polarity)		264	60	489	Test Passed
supplementary information:					
Testing performed after humidity preconditioning.					
ER - Earth leakage current EN - Enclosure leakage current P - Patient leakage current PM - Patient leakage current with mains on the applied parts PA - Patient auxiliary current Fig. 15 - refers to Fig. 15 in IEC601-1 MD - Measuring device			A - After humidity conditioning B - Before humidity conditioning 1 - Switch closed or set to normal polarity 0 - Switch open or set to reversed polarity NC - Normal condition SFC - Single fault condition		

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Clause	Requirement + Test	Result - Remark	Verdict

20	TABLE: dielectric strength				Pass
Insulation under test (area from insulation diagram)	Insulation type: (OP-operational / BI-basic / SI-supplementary / DI-double / RI-reinforced)	Reference voltage (V)	Test voltage (V)	Remarks	
Model GTM9250P753.3	-	-	-	-	
A	OP	264	2121	Test Passed	
B	RI	264	5656	Test Passed	
C	RI	264	5656	Test Passed	
D	BI	60	707	Test Passed	
-	-	-	-	-	
Model GTM9250P1203.3	-	-	-	-	
A	OP	264	2121	Test Passed	
B	RI	264	5656	Test Passed	
C	RI	264	5656	Test Passed	
D	BI	60	707	Test Passed	
-	-	-	-	-	
Model GTM9250P15012	-	-	-	-	
A	OP	264	2121	Test Passed	
B	RI	264	5656	Test Passed	
C	RI	264	5656	Test Passed	
D	BI	60	707	Test Passed	
-	-	-	-	-	
Model GTM9250P25012	-	-	-	-	
A	OP	264	2121	Test Passed	
B	RI	264	5656	Test Passed	
C	RI	264	5656	Test Passed	
D	BI	60	707	Test Passed	
-	-	-	-	-	
Model GTM9250P27048	-	-	-	-	
A	OP	264	2121	Test Passed	
B	RI	264	5656	Test Passed	
C	RI	264	5656	Test Passed	
D	BI	60	707	Test Passed	
supplementary information:					
-					

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

21	TABLE: mechanical strength		N/A
Part under test	Test (impact, drop, force, handle, rough handling, mobile)	Remarks	
supplementary information:			

24	TABLE: - stability		N/A
Part under test	Test condition	Remarks	
supplementary information:			

29	TABLE: X - radiation			N/A
Part under test		Test condition	Measured radiation (mR)	Remarks
supplementary information:				

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

42	TABLE: normal temperature		Pass
Supply voltage: See below Ambient temperature: See below		Test Condition: Rated Load	
Measuring location		Measured temperature (°C)	Remarks
GTM9250P753.3		-	90 vac @ 60 Hz
Ambient		25.1/40.0 (normalized)	-
T1 Winding		96.8/111.7	Max. Temperature: 120
T1 Core		104.3/119.2	Max. Temperature: 120
D100 Casing		71.3/86.2	Max. Temperature: 150
L100 Winding		86.2/101.1	Max. Temperature: 150
C102 casing		68.9/83.8	Max. Temperature: 105
PCB at Input Inductor		74.2/89.1	Max. Temperature: 130
LF4 Winding		65.3/80.2	Max. Temperature: 130
Q1 Casing		67.8/82.7	Max. Temperature: 150
BD1 Casing		73.1/88.0	Max. Temperature: 150
L1 Winding		92.3/107.2	Max. Temperature: 130
-		-	-
GTM9250P753.3		-	264 vac @ 60 Hz
Ambient		25.4/40.0 (normalized)	-
T1 Winding		95.1/109.7	Max. Temperature: 120
T1 Core		104.3/118.9	Max. Temperature: 120
D100 Casing		68.7/83.3	Max. Temperature: 150
L100 Winding		84.7/99.3	Max. Temperature: 150
C102 casing		67.0/81.6	Max. Temperature: 105
PCB at Input Inductor		72.1/86.7	Max. Temperature: 130
LF4 Winding		58.2/72.8	Max. Temperature: 130
Q1 Casing		57.9/72.5	Max. Temperature: 150
BD1 Casing		62.1/76.7	Max. Temperature: 150
L1 Winding		75.9/90.5	Max. Temperature: 130
-		-	-
GTM9250P1203.3		-	90 vac @ 60 Hz
Ambient		25.1/40.0 (normalized)	-
T1 Winding		50.4/65.3	Max. Temperature: 120
T1 Core		55.5/70.4	Max. Temperature: 120
D100 Casing		49.1/64.0	Max. Temperature: 150
L100 Winding		60.4/75.3	Max. Temperature: 150
C102 casing		43.4/58.3	Max. Temperature: 105
PCB at Input Inductor		65.9/80.8	Max. Temperature: 130
LF4 Winding		35.4/50.3	Max. Temperature: 130
Q1 Casing		44.5/59.4	Max. Temperature: 150
BD1 Casing		37.9/52.8	Max. Temperature: 150

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Clause	Requirement + Test	Result - Remark	Verdict
L1 Winding		47.3/62.2	Max. Temperature: 130
-		-	-
GTM9250P1203.3		-	264 vac @ 60 Hz
Ambient		25.9/40.0 (normalized)	-
T1 Winding		49.6/63.7	Max. Temperature: 120
T1 Core		55.0/69.1	Max. Temperature: 120
D100 Casing		48.6/62.7	Max. Temperature: 150
L100 Winding		59.4/73.5	Max. Temperature: 150
C102 casing		43.3/57.4	Max. Temperature: 105
PCB at Input Inductor		66.0/80.1	Max. Temperature: 130
LF4 Winding		30.8/44.9	Max. Temperature: 130
Q1 Casing		37.8/51.9	Max. Temperature: 150
BD1 Casing		33.7/47.8	Max. Temperature: 150
L1 Winding		38.5/52.6	Max. Temperature: 130
-		-	-
GTM9250P15012		-	90 vac @ 60 Hz
Ambient		25.1/40.0 (normalized)	-
T1 Winding		84.2/99.1	Max. Temperature: 120
T1 Core		86.6/101.5	Max. Temperature: 120
D100 Casing		67.8/82.7	Max. Temperature: 150
L100 Winding		98.1/113.0	Max. Temperature: 150
C102 casing		72.8/87.7	Max. Temperature: 105
PCB at Input Inductor		42.3/57.2	Max. Temperature: 130
LF4 Winding		79.8/94.7	Max. Temperature: 130
Q1 Casing		65.1/80.0	Max. Temperature: 150
BD1 Casing		76.5/91.4	Max. Temperature: 150
L1 Winding		91.0/105.9	Max. Temperature: 130
-		-	-
GTM9250P15012		-	264 vac @ 60 Hz
Ambient		25.9/40.0 (normalized)	-
T1 Winding		80.0/94.1	Max. Temperature: 120
T1 Core		83.6/97.7	Max. Temperature: 120
D100 Casing		62.8/76.9	Max. Temperature: 150
L100 Winding		93.8/107.9	Max. Temperature: 150
C102 casing		70.3/84.4	Max. Temperature: 105
PCB at Input Inductor		40.2/54.3	Max. Temperature: 130
LF4 Winding		59.9/74.0	Max. Temperature: 130
Q1 Casing		54.0/68.1	Max. Temperature: 150
BD1 Casing		59.5/73.6	Max. Temperature: 150
L1 Winding		65.7/79.8	Max. Temperature: 130
-		-	-
GTM9250P25012		-	90 vac @ 60 Hz
Ambient		25.1/40.0 (normalized)	-

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

T1 Winding	53.3/68.2	Max. Temperature: 120
T1 Core	54.5/69.4	Max. Temperature: 120
D100 Casing	59.1/74.0	Max. Temperature: 150
L100 Winding	85.1/100.0	Max. Temperature: 150
C102 casing	48.5/63.4	Max. Temperature: 105
PCB at Input Inductor	51.9/66.8	Max. Temperature: 130
LF4 Winding	61.7/76.6	Max. Temperature: 130
Q1 Casing	78.5/93.4	Max. Temperature: 150
BD1 Casing	71.6/86.5	Max. Temperature: 150
L1 Winding	69.4/84.3	Max. Temperature: 130
-	-	-
GTM9250P25012	-	264 vac @ 60 Hz
Ambient	25.9/40.0 (normalized)	-
T1 Winding	50.8/64.9	Max. Temperature: 120
T1 Core	52.3/66.4	Max. Temperature: 120
D100 Casing	54.6/68.7	Max. Temperature: 150
L100 Winding	82.5/96.6	Max. Temperature: 150
C102 casing	46.1/60.2	Max. Temperature: 105
PCB at Input Inductor	49.3/63.4	Max. Temperature: 130
LF4 Winding	36.5/50.6	Max. Temperature: 130
Q1 Casing	40.5/54.6	Max. Temperature: 150
BD1 Casing	46.4/60.5	Max. Temperature: 150
L1 Winding	45.9/60.0	Max. Temperature: 130
-	-	-
GTM9250P27 012	-	90 vac @ 60 Hz
Ambient	25.1/40.0 (normalized)	-
T1 Winding	53.6/68.5	Max. Temperature: 120
T1 Core	56.6/71.5	Max. Temperature: 120
D100 Casing	60.3/75.2	Max. Temperature: 150
L100 Winding	79.8/94.7	Max. Temperature: 150
C102 casing	41.7/56.6	Max. Temperature: 105
PCB at Input Inductor	49.4/64.3	Max. Temperature: 130
LF4 Winding	49.0/63.9	Max. Temperature: 130
Q1 Casing	91.1/106.0	Max. Temperature: 150
BD1 Casing	70.9/85.8	Max. Temperature: 150
L1 Winding	79.0/93.9	Max. Temperature: 130
-	-	-
GTM9250P27 012	-	264 vac @ 60 Hz
Ambient	25.9/40.0 (normalized)	-
T1 Winding	49.3/63.4	Max. Temperature: 120
T1 Core	53.3/67.4	Max. Temperature: 120
D100 Casing	54.3/68.4	Max. Temperature: 150

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L100 Winding	78.1/92.2	Max. Temperature: 150
C102 casing	42.2/56.3	Max. Temperature: 105
PCB at Input Inductor	47.9/62.0	Max. Temperature: 130
LF4 Winding	36.9/50.9	Max. Temperature: 130
Q1 Casing	45.8/59.9	Max. Temperature: 150
BD1 Casing	46.9/61.0	Max. Temperature: 150
L1 Winding	47.5/61.6	Max. Temperature: 130
COR - indicates measurements taken using change-of-resistance method		
supplementary information:		
-		

44	TABLE: overflow, spillage, leakage, humidity, ingress of liquids, cleaning, sterilization, disinfection		Pass
Test type and condition		Part under test	Remarks
90 % humidity @ 30 Degrees C		GTM9250753.3	Test Passed
supplementary information:			
48 hours.			

45	TABLE: hydrostatic pressure and pressure-relief device cycling test		N/A
Test type and condition		Part under test	Test pressure
			Remarks
supplementary information:			

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Clause	Requirement + Test	Result - Remark	Verdict

52	TABLE: abnormal operation		Pass
Test type, condition and clause reference		Observed results	Remarks
GTM9250P1503.3		-	-
BD1 - Short ~ to +		IP (F1 opened)	NB, NC, NT
Q1 - Short D to S		IP (F1 opened)	NB, NC, NT
D2 - Short A to C		IP (F1 opened)	NB, NC, NT
GTM9250P15048		-	-
TRC1 - Short across		T1: Temp. 84.6	NB, CT, NC, NT
Q3 - Short A to C		IP (F1 opened)	NB, NC, NT
C112 - Short across		T1: Temp. 83.9	NB, CT, NC, NT
GTM9250P25048		-	-
DC Fan - stalled		T1: Temp. 117.1; IP (Fuse F1 Cleared); CD (Q1, Q2, Q3)	NB, CT, NC, NT
GTM9250P15048		-	-
T1 - Overload		T1: Temp. 108.0	NB, NC, NT
GTM9250P15048		-	-
+ 48 VDC - shorted output		T1: Temp. 46.3	CT, NB, NC, NT
+ 48 VDC - output overloaded		T1: Temp. 56.3	NB, NC, NT
GTM9250P753.3		-	-
Earthing Test - point farthest away on chassis		2 mins.	Resistance = 0.0011
supplementary information: Comments Key: IP - Internal protection operated (list component) CT - Constant temperature were obtained TW - Transformer winding opened CD - Components damaged (list damaged components) NB - No indication of dielectric breakdown YB - Dielectric breakdown (indicate time and location) NC - Cheesecloth remained intact YC - Cheesecloth charred or flamed NT - Tissue paper remained intact YT - Tissue paper charred or flamed			

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56.1	TABLE: list of critical components					Pass
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾	
Printed Wiring Board (all models)	Gospeed PCB Co.	KS-01	Min V-0, FR4 material, 130 °C, rated for direct support	UL 796C	UL R/C, -	
Alternate - Printed Wiring Board	Wan Nien	03V0	Min V-1, 105°C, rated for direct support of live parts	UL 796, IEC60603-2	UL R/C, -	
Alternate - Printed Wiring Board	Cheerful	03	Min V-1, 130 °C, rated for direct support of live parts	UL 796, IEC60603-2	UL R/C, -	
Alternate - Printed Wiring Board	King Board	CEM-1	Min V-1, 130 °C, rated for direct support of live parts	UL 796, IEC60603-2	UL R/C, -	
Alternate - Printed Wiring Board	Evergreen PCB FTY LTD	EG1	Min V-1, 130 °C, rated for direct support of live parts	UL 796, IEC60603-2	UL R/C, -	
Alternate - Printed Wiring Board	Crimp Circuits	1-0	Min V-1, 105 °C, rated for direct support of live parts	UL 796, IEC60603-2	UL R/C, -	
Alternate - Printed Wiring Board	various	various	Min V-1, 105°C, rated for direct support of live parts	UL 796, IEC 60603-2	UL R/C, -	
Input Connector (-S, -M, -HOXXX versions)	Molex	26-60-4050	250V, 5A, 3.96mm, second and fourth pins removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA	
Alternate - Input Connector (-S, -M, -HOXXX versions)	WELI Sheng	M-139601	250V, 5A, 3.96mm, Second and fourth pins removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA	
Alternate - Input Connector (-S, -M, -HOXXX versions)	Joint Tech Electronic Industrial Co Ltd.	A3960WV-5P	250V, 5A, 3.96mm, Second and fourth pins removed, rated	UL 1059 IEC 60947	UL R/C, TUV, CSA	

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Clause	Requirement + Test	Result - Remark	Verdict

			min V-2.		
Alternate - Input Connector (-S, -M, -HOXXX versions)	Lian Cheng	A3960WV-5P	250V, 5A, 3.96mm, Second and fourth pins removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Alternate - Input Connector (-S, -M, -HOXXX versions)	Landwin	CQ306IP050TN A	250V, 7A, 3.96mm, Second and fourth pins removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, CSA
Input Connector (HIXXX, HIOXXX and HIHXXX versions)	Molex	09-50-3051	250V, 5A, 3.96mm, Second and fourth pins removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Alternate - Input Connector (HIXXX, HIOXXX and HIHXXX versions)	WELI Sheng	P-I39601	250V, 7A, 5 CKT 3.96mm, Second and fourth pins removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV CSA
Alternate - Input Connector (HIXXX, HIOXXX and HIHXXX versions)	Joint Tech Electronic Industrial Co Ltd.	A3960H-5P	250V, 5A, 3.96mm, Second and fourth pins removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Alternate - Input Connector (HIXXX, HIOXXX and HIHXXX versions)	Lian Cheng	A3960H-5P	250V, 5A, 3.96mm, Second and fourth pins removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Output Connector (-S and -HIXXX versions)	JITE	BTB654-10-04-1-M1	300V, 20A, 4 circuits, rated min V-0.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Alternate - Output Connector (-S and -HIXXX versions)	Dinkle	DT-45-B14W-XX	300V, 20A, 4 circuits, rated min V-0.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Alternate - Output Connector (-S)	Tyco/Buchanan	6PCV-04	300V, 20A, 4 circuits, rated min V-0.	UL 1059 IEC 60947	UL R/C, TUV, CSA

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Clause	Requirement + Test		Result - Remark		Verdict
and -HIXXX versions)					
Output Connector (-HOXXX and -HIXXX versions)	Molex	09-50-3101	250V, 5A, 3.96 mm pins 5 and 6 removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Alternate - Output Connector (-HOXXX and -HIXXX versions)	WELI Sheng	P-139XXXX	250V, 7A, 3.96 mm pins 5 and 6 removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Alternate - Output Connector (-HOXXX and -HIXXX versions)	Joint Tech Electronic Industrial Co. Ltd.	A3960H-10P	250V, 5A, 3.96 mm pins 5 and 6 removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Alternate - Output Connector (-HOXXX and -HIXXX versions)	Lian Cheng	A3960H-10P	250V, 5A, 3.96 mm pins 5 and 6 removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Output Connector (-M and -HIXXX versions)	Molex	26-60-4100	250V, 5A, 3.96 mm pins 5 and 6 removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Alternate - Output Connector (-M and -HIXXX versions)	WELI Sheng	M-139XXX	250V, 5A, 3.96 mm pins 5 and 6 removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Alternate - Output Connector (-M and -HIXXX versions)	Joint Tech Electronic Industrial Co. Ltd.	A396WV-10P	250V, 5A, 3.96 mm pins 5 and 6 removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Alternate - Output Connector (-M and -HIXXX versions)	Lian Cheng	A396WV-10P	250V, 5A, 3.96 mm pins 5 and 6 removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Alternate - Output Connector (-M and -HIXXX versions)	Landwin	CQ3061P100TN A	250V, 5A, 3.96 mm pins 5 and 6 removed, rated min V-2.	UL 1059 IEC 60947	UL R/C, TUV, CSA
Fuse (F1, F2)	Wickmann	372/TR5 Series	250V, 5 A, time lag	UL 198G IEC 60127	UL R/C, VDE, SEMKO, METI, CCC
Alternate Fuse	Littelfuse	372/TR5 Series	250V, 5 A, time	UL 198G	UL R/C, VDE,

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(F1, F2)			lag;	IEC 60127	SEMKO, METI, CCC, PSE-JET, K-Mark
Alternate Fuse (F1, F2)	Bel	MRT Series	250V, 5 A, time lag	UL 198G IEC 60127	UL R/, VDE SEMKO CSA PSE CCC
Alternate Fuse (F1, F2)	Walter	2000 Series	250V, 5 A, time lag;	UL 198G IEC 60127	UL R/C, VDE, SEMKO, PSE, CCC
Alternate Fuse (F1, F2)	Wickmann	382/TR5 Series	250V, 5 A, time lag	UL 198G IEC 60127	UL R/C, VDE, S, CSA, MITI, CCC
Alternate Fuse (F1, F2)	ELU-SIBA	166050 Series	250V, 5 A, time lag	UL 198G IEC 60127	UL R/C, VDE, S, CSA, MITI, CCC
MOV (MOV1/MOV2 optional)	RGA	CNR-07D471K	300Vac	UL 1449 IEC 60384	UL R/C, CSA VDE
Alternate MOV (MOV1/MOV2 optional)	Thinking Electronics	TVR07471	300Vac	UL 1449 IEC 60384	UL R/C, CSA VDE CQC
Alternate MOV (MOV1/MOV2 optional)	Littelfuse	V07E300	300Vac	UL 1449 IEC 60384	UL R/C, CSA VDE
Alternate MOV (MOV1/MOV2 optional)	Panasonic	ERZV07D471	300Vac	UL 1449 IEC 60384	UL R/C, CSA, VDE
Alternate MOV (MOV1/MOV2 optional)	CNR	CNR-07D471K	300Vac	UL 1449 IEC 60384	UL R/C, CSA, VDE
Alternate MOV (MOV1/MOV2 optional)	JOYIN	JVN07N471K65 PU5	300Vac	UL 1449 IEC 60384	UL R/C, CSA, VDE
Alternate MOV (MOV1/MOV2 optional)	Song Long Electronics	471KD07J	300Vac	UL 1449 IEC 60384	UL R/C, CSA, VDE
Alternate MOV (MOV1/MOV2 optional)	Panasonic	ERZ-V10D511	320Vac	UL 1449 IEC 60384	UL R/C, CSA, VDE
Alternate MOV (MOV1/MOV2 optional)	Centra Science	10D511K	320Vac	UL 1449 IEC 60384	UL R/C, CSA, VDE

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optional)					
Alternate MOV (MOV1/MOV2 optional)	Song Long Electronics	SAS511KD10 SBNE	320Vac	UL 1449 IEC 60384	UL R/C, CSA, VDE
Capacitor - Line to Line (CX1)	Cheng Tung	CTX	300V, 0.47uF maximum, Class X1	UL 1283	UL R/C, -
Alternate Capacitor - Line to Line (CX1)	UTX	HQX	275V, 0.47uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, VDE, FIMKO
Alternate Capacitor - Line to Line (CX1)	Pilkor	PCX Series	250V, 0.47uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, CSA, VDE, FIMKO
Alternate Capacitor - Line to Line (CX1)	Panasonic	ECQUL	250V, 0.47uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, CSA, VDE
Alternate Capacitor - Line to Line (CX1)	Philips	PCX2335	250V, 0.47uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, VDE, SEMKO
Alternate Capacitor - Line to Line (CX1)	Rifa	PHE	275V, 0.47uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, CSA, ENEC
Alternate Capacitor - Line to Line (CX1)	Okaya	LE	250V, 0.47uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, CSA, SEMKO
Alternate Capacitor - Line to Line (CX1)	BC Components	MKP	270V, 0.47uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, CSA, VDE NEMKO, SEMKO, DEMKO, FIMKO, SEV, CE
Capacitor - Line to Line (CX1A)	Cheng Tung	CTX	300V, 2.2uF maximum, Class X1	UL 1283	UL R/C, -
Alternate Capacitor - Line to Line (CX1A)	UTX	HQX	275V, 2.2uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, VDE, FIMKO
Alternate Capacitor - Line to Line	Pilkor	PCX Series	250V, 2.2uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, CSA, VDE, FIMKO

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(CX1A)					
Alternate Capacitor - Line to Line (CX1A)	Panasonic	ECQUL	250V, 2.2uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, CSA, VDE
Alternate Capacitor - Line to Line (CX1A)	Philips	PCX2335	250V, 2.2uF maximum, Class X2	UL 1283 IEC 60384	UL R/C SEMKO, VDE
Alternate Capacitor - Line to Line (CX1A)	Rifa	PHE	275V, 2.2uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, CSA, ENEC
Alternate Capacitor - Line to Line (CX1A)	Okaya	LE	250V, 2.2uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, CSA, SEMKO
Alternate Capacitor - Line to Line (CX1A)	BC Components	MKP	270V, 2.2uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, CSA, VDE NEMKO SEMKO DEMKO FIMKO SEV, CE
Capacitor - Line to Line (CX2)	Cheng Tung	CTX	300V, 0.12uF maximum, Class X1	UL 1283	UL R/C, -
Alternate Capacitor - Line to Line (CX2)	UTX	HQX	275V, 0.12uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, VDE, FIMKO
Alternate Capacitor - Line to Line (CX2)	Pilkor	PCX Series	250V, 0.12uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, CSA VDE FIMKO
Alternate Capacitor - Line to Line (CX2)	Panasonic	ECQUL	250V, 0.12uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, CSA VDE
Alternate Capacitor - Line to Line (CX2)	Philips	PCX2335	250V, 0.12uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, VDE, SEMKO
Alternate Capacitor - Line to Line (CX2)	Rifa	PHE	275V, 0.12uF maximum, Class X2	UL 1283 IEC 60384	UL R/C,, CSA, ENEC
Alternate Capacitor - Line	Okaya	LE	250V, 0.12uF maximum, Class	UL 1283 IEC 60384	UL R/C, CSA, SEMKO

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to Line (CX2)			X2		
Alternate Capacitor - Line to Line (CX2)	BC Components	MKP	270V, 0.12uF maximum, Class X2	UL 1283 IEC 60384	UL R/C, CSA, VDE NEMKO SEMKO DEMKO FIMKO SEV, CE
Capacitor - Line to Earth (CY1, CY2)	Pan Overseas	AC#	250V, 1.0nf maximum, Class Y2 min	UL 1283 IEC 60384	UL R/C, VDE SEMKO
Alternate Capacitor - Line to Earth (CY1, CY2)	Murata	KH#	250V, 1.0nf maximum, Class Y2 min	UL 1283 IEC 60384	UL R/C, VDE
Alternate Capacitor - Line to Earth (CY1, CY2)	Success	SF	250V, 1.0nf maximum, Class Y2 min	UL 1283 IEC 60384	UL R/C, VDE FIMKO DEMKO SEMKO CCC
Alternate Capacitor - Line to Earth (CY1, CY2)	Welson	KL	250V, 1.0nf maximum, Class Y2 min	UL 1283 IEC 60384	UL R/C, VDE
Alternate Capacitor - Line to Earth (CY1, CY2)	JYA-NAY CO. LTD	JY	250V, 1.0nf maximum, Class Y2 min	UL 1283 IEC 60384	UL R/C, VDE, CSA FIMKO DEMKO SEMKO NEMKO CB, SEV ENEC 10 CHINA
Alternate Capacitor - Line to Earth (CY1, CY2)	TDK	CD	250V, 1.0nf maximum, Class Y1	UL 1283 IEC 60384	UL R/C, VDE
Capacitor - Line to Earth (CY3)	Pan Overseas	AC#	250V, 2.2nf maximum, Class Y2 min	UL 1283 IEC 60384	UL R/C, VDE, SEMKO
Alternate Capacitor - Line to Earth (CY3)	Murata	KH#	250V, 2.2nf maximum, Class Y2 min	UL 1283 IEC 60384	UL R/C, VDE
Alternate Capacitor - Line to Earth (CY3)	Success	SF	250V, 2.2nf maximum, Class Y2 min	UL 1283 IEC 60384	UL R/C, VDE FIMKO DEMKO SEMKO CCC

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Alternate Capacitor - Line to Earth (CY3)	Welson	KL	250V, 2.2nf maximum, Class Y2 min	UL 1283 IEC 60384	UL R/C, VDE
Alternate Capacitor - Line to Earth (CY3)	JYA-NAY CO. LTD	JY	250V, 2.2nf maximum, Class Y2 min	UL 1283 IEC 60384	UL R/C, VDE, CSA FIMKO DEMKO SEMKO NEMKO CB, SEV
Alternate Capacitor - Line to Earth (CY3)	TDK	CD	250V, 2.2nf maximum, Class Y1	UL 1283 IEC 60384	UL R/C, VDE
Capacitor, Bridging (CY5)	Pan Overseas	AH	250V, 2.2nf maximum, Class Y1	UL 1283 IEC 60384	UL R/C, VDE
Alternate Capacitor, Bridging (CY5)	Murata	KX	250V, 2.2nf maximum, Class Y1	UL 1283 IEC 60384	UL R/C, VDE
Alternate Capacitor, Bridging (CY5)	TDK	CD	250V, 2.2nf maximum, Class Y1	UL 1283 IEC 60384	UL R/C, CSA, VDE
Alternate Capacitor, Bridging (CY5)	Welson	WD	250V, 2.2nf maximum, Class Y1	UL 1283 IEC 60384	UL R/C,, VDE
Alternate Capacitor, Bridging (CY5)	Chun Fyu	CD	250V, 2.2nf maximum, Class Y1	UL 1283 IEC 60384	UL R/C, VDE
Alternate Capacitor, Bridging (CY5)	JYA-NAY CO. LTD	JN	250V, 2.2nf maximum, Class Y1	UL 1283 IEC 60384	UL R/C, VDE, CSA FIMKO DEMKO SEMKO NEMKO CB, SEV
NTC Thermistor (RTH1)	Thinking Electronics or equivalent	SCK	16 Ohm, 4A	UL 1434 IEC 60730	UL R/C, CSA
NTC Thermistor (RTH1) Alternate	Thermometrics or equivalent	CL70	16 Ohm, 4A	UL 1434 IEC 60730	UL R/C, CSA
NTC Thermistor (RTH1) Alternate	various	various	16 Ohm, 4A	UL 1434 IEC 60730	UL R/C, CSA
Thermal Switch TS1	Dong Guan Chwen-Der Elec or Equivalent	CD2KF-0-80A/100	80C/100C	IEC 60691	UL R/C, VDE
Alternate Thermal Switch (TS1)	THERMOSTATE	UP72-80/100PM5	80C/100C	IEC 60691	UL R/C, VDE
Alternate	various	various	80C/100C	IEC 60691	UL R/C, VDE

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Thermal Switch (TS1)					
Diode Bridge (BD1)	ST	KG600P	600V 10A minimum	Tested in the power supply.	-, -
Alternate Diode Bridge (BD1)	various	various	600V 10A minimum	Tested in the power supply.	-, -
Capacitor (C5)	Rubycon	MXG Series t	450V, 220uf max.	Tested in the power supply.	-, -
Alternate Capacitor (C5)	various	various	450V, 220uf max.	Tested in the power supply.	-, -
MOSFET (Q1)	ST	STW45NM50 or equivalent	500V, 40A	Tested in the power supply.	-, -
Alternate MOSFET (Q1)	ST	IRFP460A	500V, 20A minimum	Tested in the power supply.	-, -
Alternate MOSFET (Q1)	IR	IRFP450	500V, 14A minimum	Tested in the power supply.	-, -
Alternate MOSFET (Q1)	various	various	500V, 14A minimum	Tested in the power supply.	-, -
MOSFET (Q2, Q3)	ST	STW13NK100Z	1000V, 13A	Tested in the power supply.	-, -
Alternate MOSFET (Q2, Q3)	Fuji	2SK3337-01	1000V, 7A	Tested in the power supply.	-, -
Alternate MOSFET (Q2, Q3)	various	various	1000V, 7A	Tested in the power supply.	-, -
Diode (D1)	IXYS	DSEI30-06A	600V, 37A	Tested in the power supply.	-, -
Alternate Diode (D1)	APT	APT30D60B	600V, 30A	Tested in the power supply.	-, -
Alternate Diode (D1)	various	various	600V, 30A	Tested in the power supply.	-, -
Transformer (T1) 3.3V to 48V	Globtek/ Young-Shang Electronic Plant/ Volt Electronic Factory/ Yao Sheng Electronic Co Ltd/ENG	400-0087 = 3.3V 400-0101 = 5V 400-0086 = 7.5V 400-0106 = 9V 400-0104 = 12V 400-0105 = 15V 400-0089 = 18V 400-0130 = 22V 400-0102 = 24V 400-0107 = 30V 400-0103 = 36V 400-0108 = 40V 400-0088 = 48V	Provides reinforced/double insulation. Provided w/ R/C Class B (130°C) insulation system. See Diagrams Enclosure for details.	Tested in the power supply.	-, -
Insulation System (employed in T1)	Globtek	GTX-1	Class B (130°C). For transformer manufactured by	UL 506	UL R/C, -

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Clause	Requirement + Test	Result - Remark	Verdict

			GlobTek only.		
Insulation System (employed in T1)	Young-Shang Electronic Plant	YSE 0510 YSE 0522	Class B (130°C). For transformer manufactured by Young- Shang Electronic Plant.	UL 506	UL R/C, -
Alternate Insulation System (employed in T1)	Volt Electronic Factory	R152D R172D TVT-130 DASH 2B-5 TVT-130 GH-130	Class B (130°C). For transformer manufactured by Heng Chi Li only.	UL 506	UL R/C, -
Alternate Insulation System (employed in T1)	Yao Sheng electronic Co Ltd	YST-JC1 M7A90 M7AGHB M7ADEW DASH 2B-5A	Class B (130°C). For transformer manufactured by Heng Chi Li only.	UL 506	UL R/C, -
Inductor (LF1)	GlobTek	403-0019	OBWM2) 130 degree C winding wire on a toroidal core; (YDPU2) shrink tubing of 130 degrees C covers winding wire	Tested in the power supply.	-, -
Inductor (L1)	GlobTek	404-0024	OBWM2) 130 degree C #24 AWG triple insulated winding over two toroidal cores; (OANZ2) 3 layers of #56 insulation tape covers the wire.	Tested in the power supply.	-, -
Inductor (L100)	GlobTek	403-0027	(OBJT2) 130 degree C #24 AWG triple insulated wire over two toroidal cores; (OANZ2) 2 layers of No. 56 insulation tape	Tested in the power supply.	-, -
Inductor (LF2)	GlobTek	404-0019	(QMFZ2) nylon bobbin by Chan Chun Electronics, 150 degrees C;	Tested in the power supply.	-, -

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Clause	Requirement + Test		Result - Remark		Verdict
			(OBWM2) 155 degree C winding wire; (OANZ2) 3 layers of No. 56 insulation tape		
Optical Isolator (U5, U6)	Liteon	LTV817C	5000 Vac isolation	UL 1577 IEC 60947	UL R/C, TUV, CSA VDE FIMKO NEMKO DEMKO SEMKO BSI
Alternate - Optical Isolator (U5, U6)	Sharp	PC817C	5000 Vac isolation	UL 1577 IEC 60947	UL R/C, TUV
Alternate - Optical Isolator (U5, U6))	Fairchild	FOD817C	5000 Vac isolation	UL 1577 IEC 60947	UL R/C, VDE
Alternate - Optical Isolator (U5, U6)	Infineon	SFH615ABM	5000 Vac isolation	UL 1577 IEC 60947	UL R/C, VDE
Alternate - Optical Isolator (U5, U6)	NEC	PS2501-1L	5000 Vac isolation	UL 1577 IEC 60947	UL R/, TUV
Alternate - Optical Isolator (U5, U6)	Cosmo Electronics Co.	KP1010C	5000 Vac isolation	UL 1577 IEC 60947	UL R/C, VDE
Alternate - Optical Isolator (U5, U6))	Everlight	EL817C	5000 Vac isolation	UL 1577 IEC 60947	UL R/C, VDE SEMKO FIMKO NEMKO DEMKO CSA, BSI
Alternate - Optical Isolator (U5, U6)	Matsushita Electric Corp.	ON3171	5000 Vac isolation	UL 1577 IEC 60947	UL R/C, VDE
Optical Isolator (U4)	Fairchild or equivalent	MOC3022 or equivalent	5300 Vac isolation	UL 1577 IEC 60947	UL R/C, VDE
Light Emitting Diode (LED1)	LITEON Or equivalent	LTL-16KGE	575 nm wavelength Green visible light range only	Tested in the power supply.	-, -
Alternate - Light Emitting Diode (LED1)	Cosmo Electronics Co.	KLR03CGX	525 nm wavelength Green visible light range only.	Tested in the power supply.	-, -
Alternate - Light	Bright Led	BL-B2141-AT	Gallium	Tested in the	-, -

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Clause	Requirement + Test	Result - Remark	Verdict

Emitting Diode (LED1)	Electronics Corp	LED Ø3	Phosphide green diffused.	power supply.	
Alternate - Light Emitting Diode (LED1)	Brightek Optoelectronics Co., Ltd.	LA304G1DA-1A/01 Ø3	Gallium Phosphide green diffused.	Tested in the power supply.	-, -
Insulator between PCB and Chassis	Sun-Yo Industrial Co	HX-3F1301-001	Formex GK-18 Rated min V-0, min thickness of 0.43mm	UL 94	UL R/C, -
Alternate - Insulator between PCB and Chassis	DMC	HX-3F1301-001	Formex GK-18 Rated min V-0, min thickness of 0.43mm	UL 94	UL R/C, -
Alternate - Insulator between PCB and Chassis	FU YI	HX-3F1301-001	Formex GK-18 Rated min V-0, min thickness of 0.43mm	UL 94	UL R/C, -
Alternate - Insulator between PCB and Chassis	various	various	Formex GK-18 Rated min V-0, min thickness of 0.43mm	UL 94	UL R/C, -
Alternate - Insulator between PCB and Chassis	Device Mate Corp.	FR-60	FR-60 Rated min V-0, min thickness of 0.43mm	UL 94	UL R/C, -
Cooling Fans (Fan1 & Fan2 for 250W version)	SUNON	KD1204PKV2 or KDE1204PKV2	12VDC 0.6W (0.8W) 40x40x20mm	UL 507 60950 IEC	UL R/C, TUV CE
Alternate - Cooling Fans (Fan1 & Fan2 for 250W version)	SUNON	KDE1204PKV1	12VDC 0.8W 40x40x20mm	UL 507 60950 IEC	UL R/C, TUV CE
Alternate - Cooling Fans (Fan1 & Fan2 for 250W version)	SUNON	KDE1204PKVX	12VDC 1.4W 40x40x20mm	UL 507 60950 IEC	UL R/C, TUV CE
Alternate - Cooling Fans (Fan1 & Fan2 for 250W version)	SUNON	KDE1204PKV3	12VDC 0.6W 40x40x20mm	UL 507 60950 IEC	UL R/C, TUV CE
Alternate - Cooling Fans (Fan1 & Fan2 for 250W version)	SUNON	KDE1204PKBX-8 OR KD1204PKBX-8	12VDC 1.1W 40x40x20mm	UL 507 60950 IEC	UL R/C, TUV CE
Alternate - Cooling Fans (Fan1 & Fan2 for 250W version)	Adda	AD0412LB-C50	12VDC 0.07W 40x40x20mm	UL 507 60950 IEC	UL R/C, TUV CE, TUV CE
Alternate -	NMB	1608KL-04W-	12VDC 0.48W to	UL 507 IEC	UL R/C, TUV

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Clause	Requirement + Test	Result - Remark	Verdict

Cooling Fans (Fan1 & Fan2 for 250W version)		B10 to B50	1.32W 40x40x20mm	60950	CE, TUV CE
Alternate - Cooling Fans (Fan1 & Fan2 for 250W version)	EBM Papst	412/412H	12VDC 0.9W/1.6W 40x40x20mm	UL 507 60950 IEC	UL R/C, CSA VDE, CSA, VDE
Cooling Fans (Fan1 & Fan2 for 270W version)	SUNON	KDE1208PTV1	12VDC 1.8W 80X80X25mm	UL 507 60950 IEC	UL R/C, TUV
Alternate - Cooling Fans (Fan1 & Fan2 for 270W version)	SUNON	KDE1208PTV2	12VDC 1.6W 80X80X25mm	UL 507 60950 IEC	UL R/C, TUV
Alternate - Cooling Fans (Fan1 & Fan2 for 270W version)	SUNON	KDE1208PTV3	12VDC 1.8W 80X80X25mm	UL 507 60950 IEC	UL R/C, TUV
Alternate - Cooling Fans (Fan1 & Fan2 for 270W version)	Adda	AD0812MB- A70GL	12VDC 1.8W 40x40x25mm	UL 507 60950 IEC	UL R/C, TUV
Alternate - Cooling Fans (Fan1 & Fan2 for 270W version)	SUNON	KD1208PTB3	Brushless 12VDC 80x80x25mm	UL 507 60950 IEC	UL R/C, TUV
Alternate - Cooling Fans (Fan1 & Fan2 for 270W version)	NMB	3110KL-04W- B30-P00	Brushless 12VDC 80x80x25mm	UL 507 60950 IEC	UL R/C, CSA VDE CE
Alternate - Cooling Fans (Fan1 & Fan2 for 270W version)	EBM Papst	8412NME	Brushless 12VDC 80x80x25mm	UL 507 60950 IEC	UL R/C VDE, CSA
Ratings Label	Colorful Printing Co. Ltd.	C-002 or C-004	Nylon- polyamide; 100°C, V-0	UL 969	UL R/C, -
Alternate Ratings Label	JinLing Printing Factory	GL-18000(S)	Nylon- polyamide; 100°C, V-0	UL 969	UL R/C, -

¹⁾ an asterisk indicates a mark which assures the agreed level of surveillance

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

56.10	TABLE: actuating parts and controls		N/A
Part under test		Torque applied	Remarks
supplementary information:			

56.11b	TABLE: foot operated control devices-loading		N/A
Part under test		Observed results	Remarks
supplementary information:			

57.4	TABLE: cord anchorages				N/A
Cord under test		Mass of equipment	Pull	Torque	Remarks
supplementary information:					

57.4b	TABLE: cord bending			N/A
Cord under test	Test mass	Measured curvature	Remarks	
supplementary information:				

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

57.9.1a	TABLE: transformer short circuit					Pass
Winding under test	Protection	Measured temperatures (°C)			Test duration	Remarks
		Primary	Secondary	Ambient		
T1 - secondary short circuit	-	56.3	66.8	22.4	20 mins.	0 VDC output; Unit reached temperature stability; No hazard; CT, NB, NC, NT
supplementary information: Comments Key: IP - Internal protection operated (list component) CT - Constant temperature were obtained TW - Transformer winding opened CD - Components damaged (list damaged components) NB - No indication of dielectric breakdown YB - Dielectric breakdown (indicate time and location) NC - Cheesecloth remained intact YC - Cheesecloth charred or flamed NT - Tissue paper remained intact YT - Tissue paper charred or flamed						

57.9.1b	TABLE: overload						Pass
Winding under test	Protection	Measured temperatures (°C)			Test duration	Test current or thermal cutout temp.	Remarks
		Primary	Secondary	Ambient			
T1 - secondary output overload	-	108	71.1	23.3	1 hr. 20 mins.	-	Temperatures reached stability; No hazard; NB, NT, CT
supplementary information:							
Comments Key: IP - Internal protection operated (list component) CT - Constant temperature were obtained TW - Transformer winding opened CD - Components damaged (list damaged components) NB - No indication of dielectric breakdown YB - Dielectric breakdown (indicate time and location) NC - Cheesecloth remained intact YC - Cheesecloth charred or flamed NT - Tissue paper remained intact YT - Tissue paper charred or flamed							

57.9.2	TABLE: transformer dielectric strength				N/A
Transformer under test	Test voltage applied to	Test voltage	Test frequency	Remarks	
supplementary information:					

IEC 60601			
Clause	Requirement + Test	Result - Remark	Verdict

	TABLE: additional tests		Pass
Clause	Test type and condition	Remarks and observed results	Verdict
20.3	T1: Pin 1, 2 to 9, 10, 11, 12	Up (V): 115, U r.m.s.(V): 28	Passed
20.3	T1: Pin 1, 2 to 9, 10, 11, 12	Up (V): 120, U r.m.s.(V): 68	Passed
20.3	T1: Pin 1, 2 to 9, 10, 11, 12	Up (V): 124, U r.m.s.(V): 15	Passed
20.3	T1: Pin 1, 2 to 9, 10, 11, 12	Up (V): 208, U r.m.s.(V): 45	Passed
20.3	T1: Pin 1, 2 to 9, 10, 11, 12	Up (V): 280, U r.m.s.(V): 118	Passed
20.3	T1: Pin 1, 2 to 9, 10, 11, 12	Up (V): 136, U r.m.s.(V): 14	Passed
supplementary information:			
Model GTM9250P27045			

Enclosure
National Differences

Canada
USA

- * No National Differences Declared
- ** Only Group Differences

IEC 60601			
SubClause	Difference + Test	Result - Remark	Verdict

Canada - Differences to IEC 60601-1:1988 + A1:1991 + A2:1995			
6	Canadian difference to this clause no longer applicable		N/A
6.61	Point of connection of gas cylinders:		N/A
6.61	- is gas specific		N/A
6.61	- is non-interchangeable		N/A
6.61	- is identified		N/A
56.3a	Medical gas inlet connectors:		N/A
56.3a	- are gas specific		N/A
56.3a	- are non-interchangeable		N/A
56.3a	- are DISS type complying with CGA V-5		N/A
56.3a	- are configured to permit the supply from assemblies complying with CAN/CSA - Z5359-04 (replaces Z305.2)		N/A
56.6a	Where consequential loss of function caused by operation of a thermal cut-out presents a safety hazard, both visible and audible warnings provided		N/A
57.2g	Mains plug of non-permanent installed equipment:		N/A
57.2g	- if molded on type - hospital grade complying with CSA C22.2, No. 21		N/A
57.2g	- hospital grade disassembly type complying with CSA C22.2, No. 42		N/A
57.2g	- if Class II equipment - polarized hospital grade CSA configuration 1-15P	To be evaluated in the end product.	N/A
57.3b	Detachable power supply cords:		N/A
57.3b	- unlikely to be detached accidentally		N/A
57.3b	- impedance of earth contacts presents no safety hazard		N/A
57.3b	- possibility of replacement by a cord which could make equipment hazards minimized		N/A
57.3b	- complies with CSA C22.2 NO. 21		N/A
57.3b	- not smaller than No. 18 AWG		N/A
57.3b	- minimum serviceability of Type SJ for mobile equipment or Type SV for other		N/A
57.9	Canadian difference to this clause no longer applicable		N/A

IEC 60601			
SubClause	Difference + Test	Result - Remark	Verdict
58.2	Canadian difference to this clause no longer applicable		N/A
59.1	Connecting cables comply with Canadian Electrical Code, Part I		N/A
60	Canadian difference to this clause no longer applicable		N/A

IEC 60601			
SubClause	Difference + Test	Result - Remark	Verdict

USA - Differences to IEC 60601-1:1988 + A1:1991 + A2:1995			
3.100.1a	Printed wiring boards comply with U.S. National or internationally harmonized component standards unless they are connected totally in a SELV circuit limited to 15 W, or less, maximum available power and whose failure will not result in a Safety Hazard.	UL R/C PWB used.	N/A
3.100.1b	Lithium batteries comply with U.S. National or internationally harmonized component standards	No batteries.	N/A
3.100.1c	Optical isolators comply with U.S. National or internationally harmonized component standards unless they are connected totally in a SELV circuit limited to 15 W, or less, maximum available power and whose failure will not result in a Safety Hazard.	UL R/C components.	N/A
3.100.1d	Wiring and tubing comply with U.S. National or internationally harmonized component standards unless they are connected totally in a SELV circuit limited to 15 W, or less, maximum available power and whose failure will not result in a Safety Hazard.		N/A
3.100.1e	CRT's > 5 inches comply with U.S. National or internationally harmonized component standards	No CRT	N/A
3.101.1	Primary circuit components up to isolation transformer meet U.S. national or international harmonized component standards		N/A
6	a) All words except the signal words in "CAUTION", WARNING", and "DANGER" markings at least 1.6 mm (1/16 inch) high		N/A
6	b) Signal words "CAUTION", WARNING", and "DANGER" at least 2.8 mm (7/64 inch)		N/A
6	c) Letters in contrast color to the background		N/A
6	Equipment capable of emitting ionizing radiation provided with warning statement		N/A
6	If equipment produced in more than one factory, factory identification marked on the equipment		Pass
6	Multiple-voltage equipment intended for permanent connection marked with voltage for which it is connected when shipped		N/A
6.2l	Statement for suitable wiring materials at temperatures over 60 °C		N/A
6.6a	Identification of the content of gas cylinders in accordance with the color coding requirement of ANSI/NFPA99.		N/A

IEC 60601			
SubClause	Difference + Test	Result - Remark	Verdict
6.8	Cord-connected equipment provided with instructions to indicate type of attachment plug for alternate voltage		N/A
10.2.2a	Rated voltage not exceeding 250 Vdc or single phase ac or 600 V polyphase ac for equipment up to 4kVA	Single phase, 100-240Vac	Pass
10.2.2a	Rated voltage not exceeding 600 V for all other equipment		N/A
14	Fixed equipment and permanent equipment is Class I		N/A
18m	Earthing of X-ray equipment: All parts operating at over 600 V ac, 850 V dc, or 850 V peak are enclosed in protectively earthed enclosures		N/A
18m	Earthing of X-ray equipment: Connections from high-voltage equipment to other high voltage components made with high voltage shielded cables		N/A
18n	Accessible non-current carrying conductive parts are protectively earthed		N/A
19	Enclosure and earth leakage currents comply with U.S. limits		Pass
22	When risk of injury can occur, end stops are provided		N/A
22	End stops have mechanical strength as determined by the test		N/A
22.4	Dangerous movements of equipment parts which may cause physical injury to the patient or operator are possible only by the continuous activation by the operator		N/A
22.7a	Emergency off switch has red actuator		N/A
22.7a	Emergency off switch: once actuated, maintains the equipment in "off" condition until action, different from that used to actuate, is performed		N/A
22.7a	Emergency off switch is readily accessible to operator		N/A
22.7b	Emergency off switch is marked with word "STOP" or symbol 5110 of IEC 878 in compliance with U.S. Clause 6		N/A
22.7b	Emergency off switch: separate and independent of		N/A

IEC 60601			
SubClause	Difference + Test	Result - Remark	Verdict
	the intended movement control		
28.3	No evidence of damage to a safety catch after test		N/A
28.3	Safety catch marking provided		N/A
28.4	No damage to structural parts as a result of loading test		N/A
42	Insulation systems with measured temperatures exceeding Class A 105°C (based on 40°C ambient) comply with UL1446	Class B insulation system.	Pass
55	Polymeric enclosures and external combustible surfaces		Pass
55	Polymeric enclosures comply with: Conductive coatings applied to nonmetallic surfaces comply with UL 746C		N/A
55	External combustible surface of more than 9.47 m2 or single dimension of 3.7 m have flame spread rating not exceeding 75 (Steiner Tunnel Test)		N/A
55	External combustible surface of more than 4.74 m2 but not exceeding 9.47 m2 have flame spread rating not exceeding 75 (Radiant Panel or Steiner Tunnel Test)		N/A
55	Polymeric enclosures for transportable equipment rated 94V-2 or better	V-0 material used.	Pass
55	Polymeric enclosures for fixed or stationary equipment rated 94V-0 or better		N/A
55	Polymeric enclosures withstand 6.78 Nm impact test		Pass
55	Polymeric enclosures: no deformation after mold stress test		Pass
55	Polymeric enclosures of hand-held equipment withstands 1.22 m drop test		Pass
56.3a	Connector, pin, plug attached to patient connected lead or contact cannot engage any part on the equipment, including separable cord set		N/A
56.3a	Connector, pin, plug attached to patient connected lead or contact cannot make contact with live parts of power receptacle outlet (if product can be used without professional supervision)		N/A
57	Permanently connected equipment provided with field wiring provision in accordance with NEC, ANSI/NFPA 70		N/A
57.2	Power cord mains plug is "Hospital Grade" type		N/A

IEC 60601			
SubClause	Difference + Test	Result - Remark	Verdict
57.2	Grounding reliability marking provided		N/A
57.2	Plug for radiography equipment acceptable for current not less than 50 % of maximum input		N/A
57.2	Plug acceptable for use with current not less than 125 % of rated current		N/A
57.2	Plug acceptable for voltage for which the equipment is configured when shipped		N/A
57.2	Polarized plug wired such that the center contact of edison-base lampholder, single-pole switch or single-pole overcurrent device connected in ungrounded side		N/A
57.3b	Detachable power supply cord unlikely to become detached accidentally		N/A
57.3b	Flexible cord is of type acceptable for application		N/A
57.3b	Flexible cord not smaller than 18 AWG		N/A
57.3b	Flexible cord complies with serviceability requirements		N/A
57.5b	If leads are provided for connection to branch circuit, the free end is in separate compartment		N/A
57.5b	If leads are provided for connection to branch circuit, the free length of leads inside field-wiring compartment is at least 152 mm long		N/A
58.2	Connections are mechanically secured in addition to soldering		N/A
59.1	Installation of connecting cords between parts of equipment in compliance with NEC		N/A
59.1	Cable type acceptable for external interconnection		N/A
400	Oxygen		N/A
400.1	At least one of the following three requirements is satisfied:		N/A
400.1.1	Electrical components separated by barrier per 400.2		N/A
400.1.2	Compartments with electrical components ventilated per 400.3		N/A
400.1.3	Electrical components comply with 400.4 so that cannot be a source of ignition		N/A
400.2	Barrier required by 400.1 is sealed at all joints and holes		N/A

IEC 60601			
SubClause	Difference + Test	Result - Remark	Verdict
400.3	Ventilation required by 400.1 is such that oxygen content does not exceed 4% above ambient		N/A
400.4	Under N.C. and S.F.C. the product of the value of no load rms voltage and short circuit rms current less than 10 VA		N/A
400.4	Surface temperature of components below 300°C in N.C. and S.F.C		N/A
400.5	External exhaust gas outlets located at least 20 cm from any electrical component mounted on the outside		N/A
400.6	Hospital beds intended for use with oxygen administering equipment provided with required markings		N/A
400.7	Pendant controls on hospital beds with oxygen administering equipment marked as required		N/A
400.8	Instructions for installation are in compliance with requirements of this clause		N/A
600.1	Separate power units packed with equipment		N/A
600.1	Separate power units provided with correlation marking		N/A
600.2.1	Direct plug-in unit construction and performance comply with required sections of UL1310		N/A
600.2.2	Direct plug-in unit external temperature rise during overheating test do not exceed 65°C		N/A
600.2.3	If direct plug-in unit provided with a mounting tab - unit marked as required by UL1310		N/A

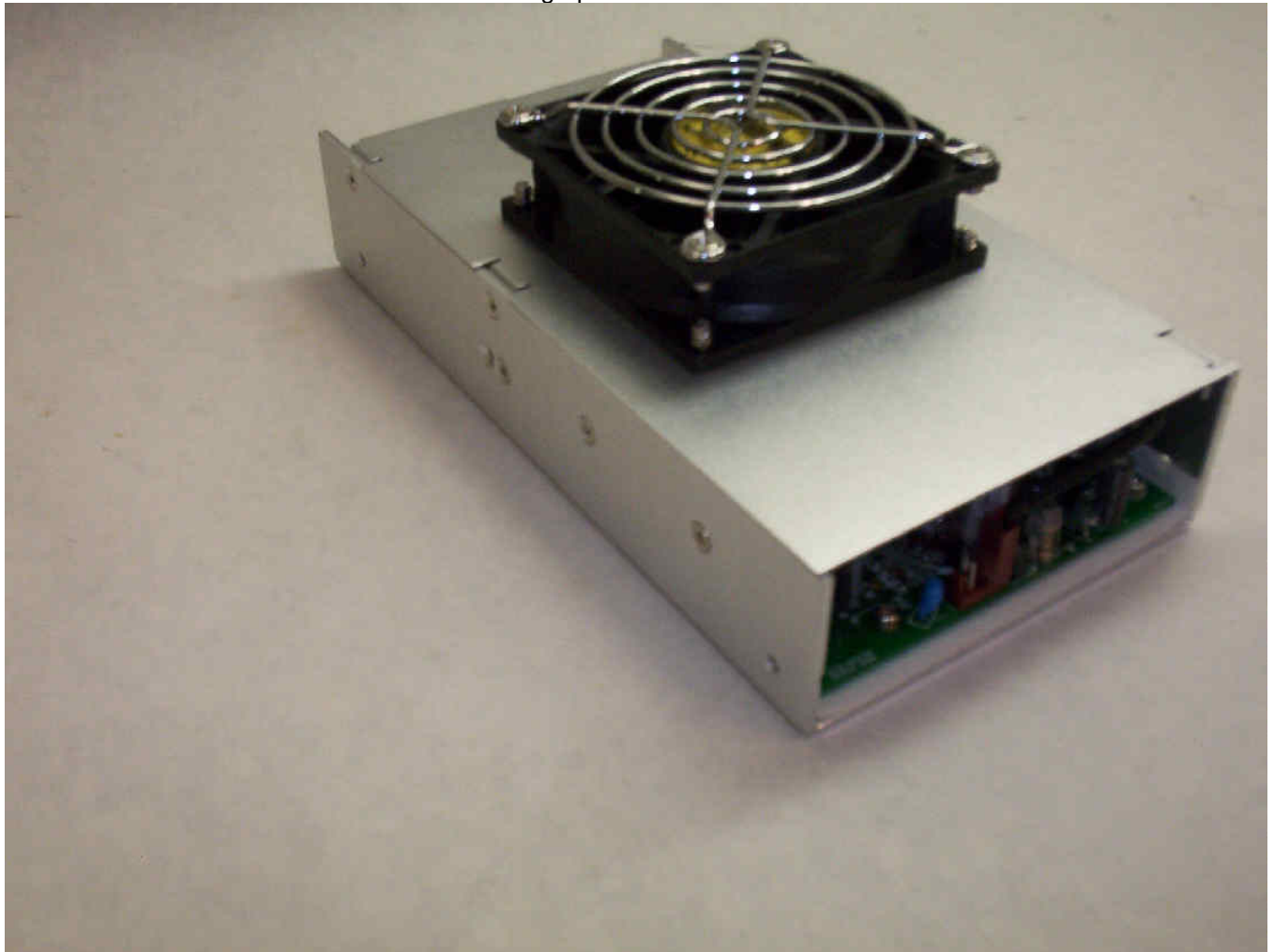
Enclosure**Photographs**

Supplement Id	Description
3-01	Model GTM9250P Overall
3-02	Model GTM9250P Overall
3-03	Model GTM9250P Overall
3-04	Model GTM9250P Overall
3-05	Model GTM9250P Cover Removed

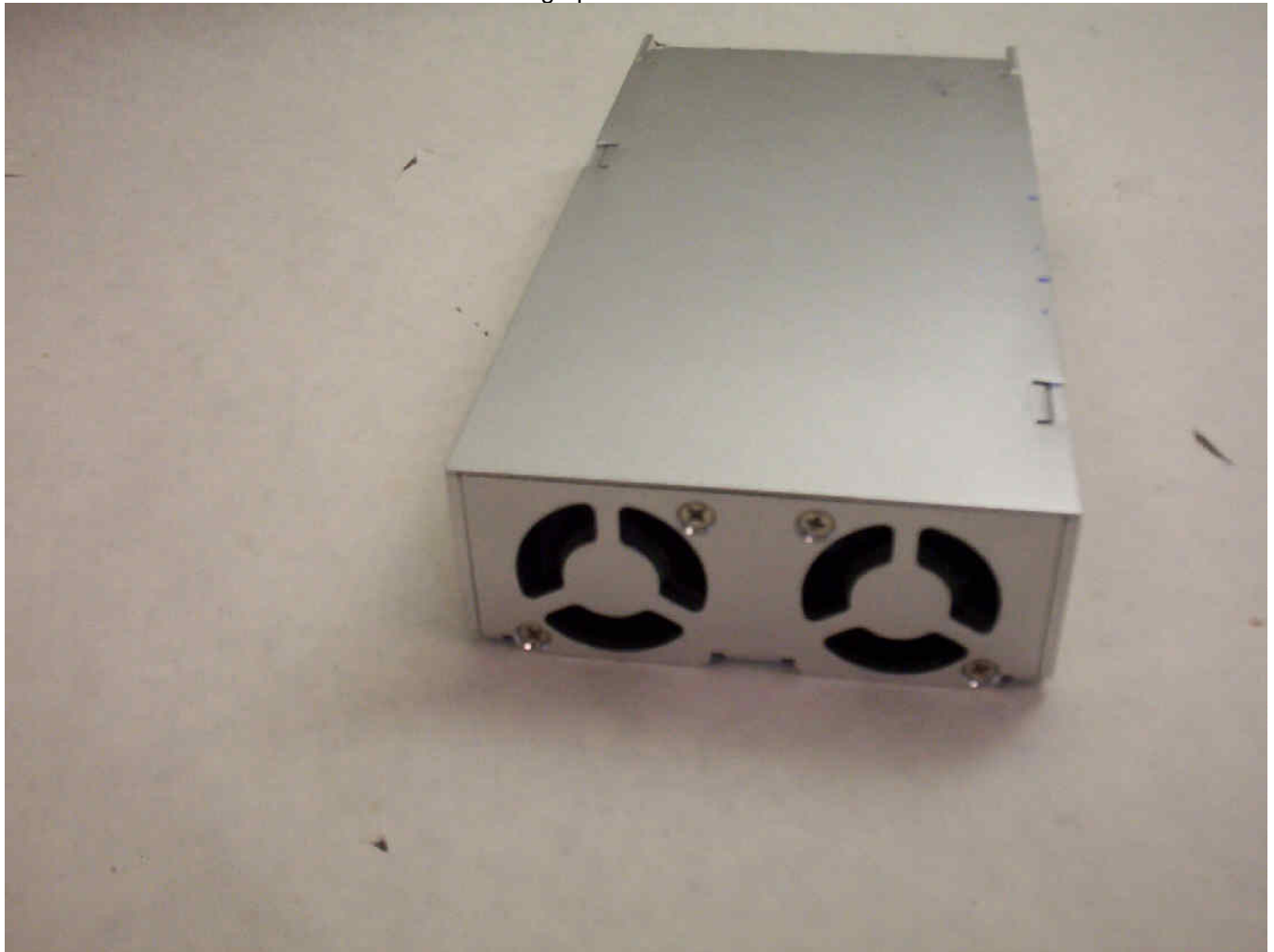
Photographs ID 3-01



Photographs ID 3-02



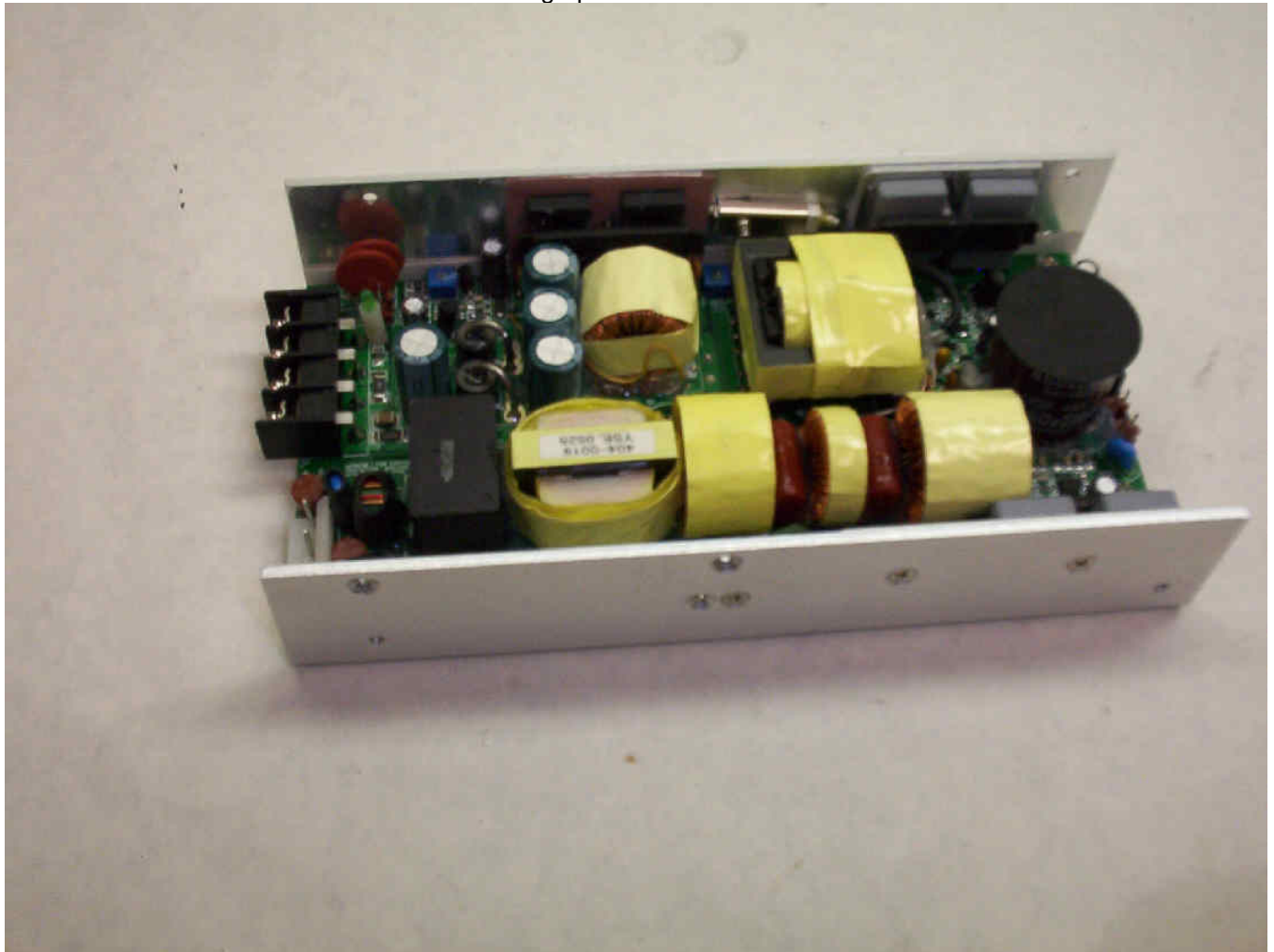
Photographs ID 3-03



Photographs ID 3-04



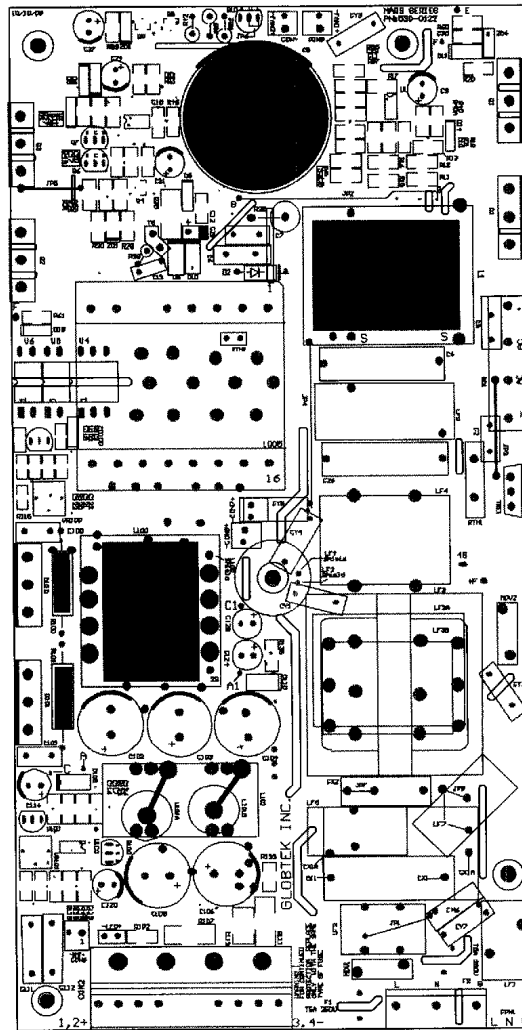
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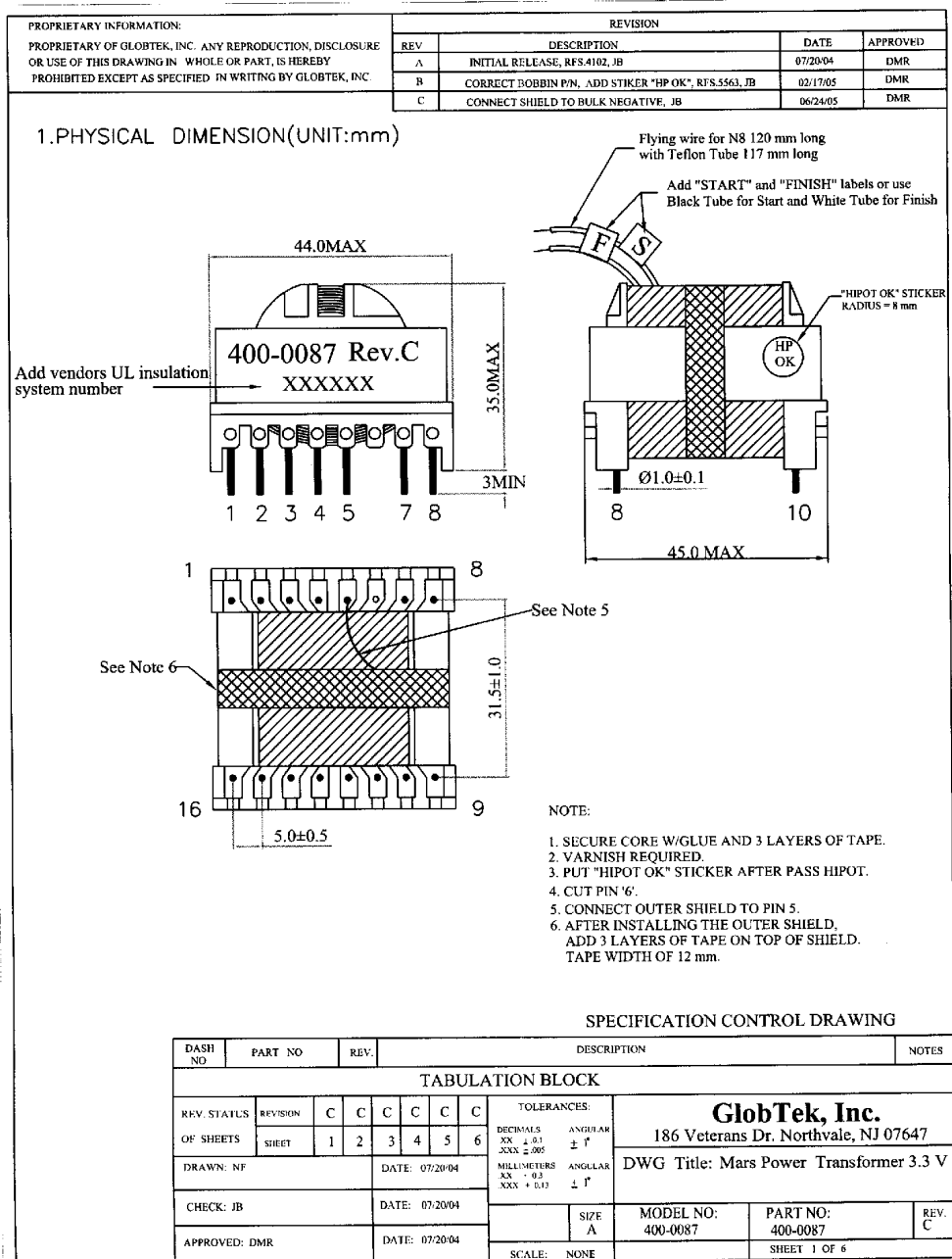
Enclosure**Diagrams**

Supplement Id	Description
4-01	Component Layout
4-02	Transformer T1
4-03	Transformer T1
4-04	Chassis Assembly
4-05	Chassis Assembly
4-06	Chassis
4-07	Inductor LF1
4-08	Inductor LF2
4-09	Inductor L1
4-10	Inductor L100

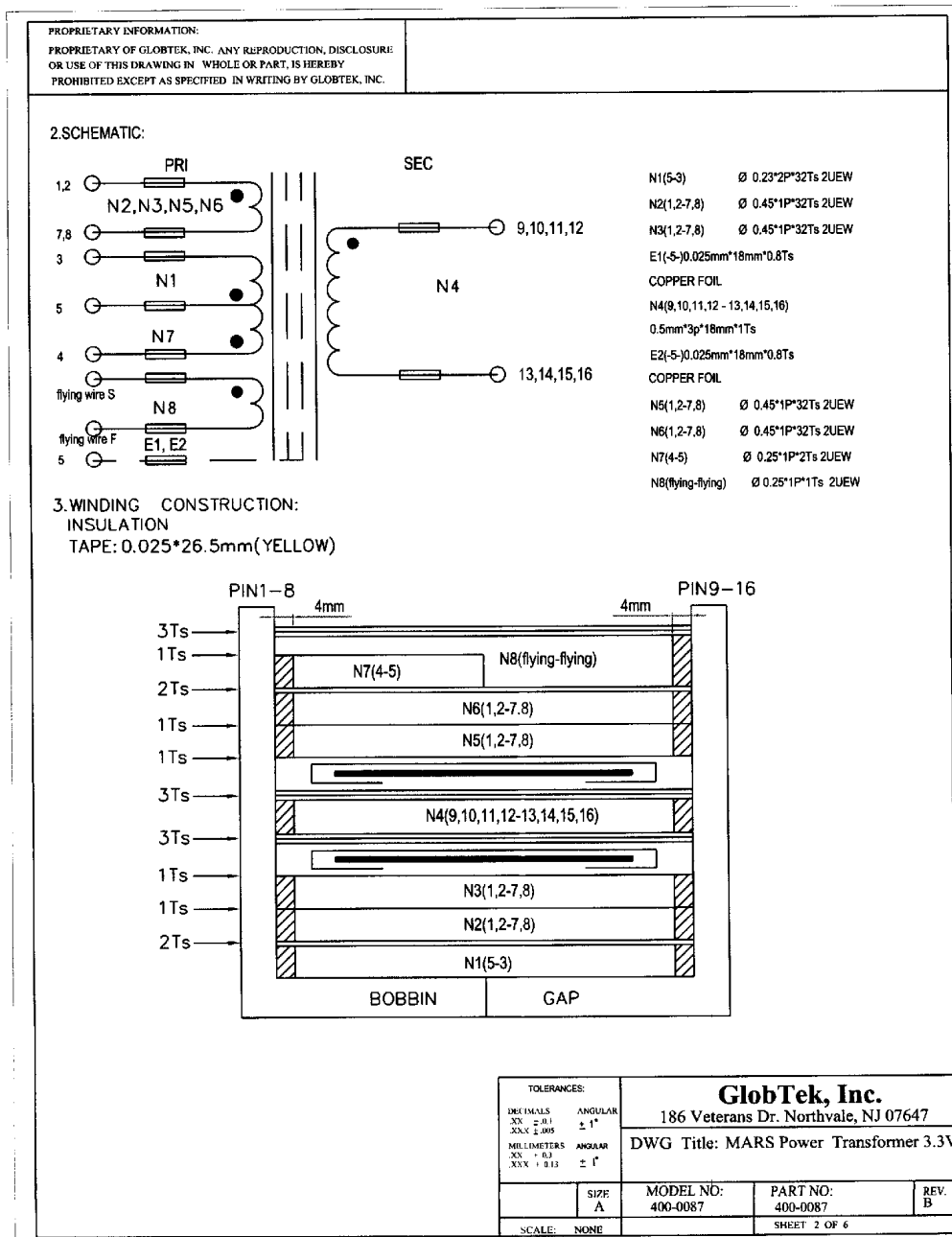
Diagrams ID 4-01



Diagrams ID 4-02



Diagrams ID 4-02



Diagrams ID 4-02

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4. MATERIAL LIST:

NO.	TEM	MATERIAL	SUPPLIERS	UL NO.
1	BOBBIN	PHENOLIC T373J 94V-0 150C OR EQUIV	CHANG CHUN PLASTICS CO.,LTD.	E59481(S)
2	CORE	FERRITE CORE ETD39/20 3C90 OR PC40ETD39-Z TDK	FERROXCUBE	
3	WIRE	POLYURETHANE ENAMELLED COPPER WIRE 2UEW	WAN MON INDUSTRIAL CORP	E104091(S)
4	INSULATION TAPE	POLYESTER FILM TAPE CT-280	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO.,LTD	E165111
5	MARGIN TAPE	POLYESTER FILM TAPE WF-2902	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CL.,LTD.	E165111
6	TUBE	TEFLON TUBE	FLUO TECH INDUSTRIES CO.,LTD	E175982(S)
7	COPPER FOIL	0.025*12mm 0.025*18mm 0.5*18mm	DIANQIANG MATERIAL CO.,LTD.	
8	VARNISH	WA-238A	HITACHI CHEMICAL CO.,LTD	E72979
9	SOLDER	BAR 63/37	SOLNET METAL INDUSTRY CO.,LTD.	

TOLERANCES:

DECIMALS ANGULAR
XX ± 0.1 ± 1°
XXX ± 0.05
MILLIMETERS ANGULAR
XX ± 0.1 ± 1°
XXX ± 0.15

GlobTek, Inc.

186 Veterans Dr. Northvale, NJ 07647

DWG Title: Mars Power Transformer 3.3V

SIZE
AMODEL NO:
400-0087PART NO:
400-0087REV.
C

SCALE: NONE

SHEET 3 OF 6

Diagrams ID 4-02

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5.ELECTRICAL CHARACTERISTIC:																																											
TEST ITEM	TEST CONDITION	RESULT																																									
INDUCTANCE	@1KHz 0.25V (1,2-7,8)	2.8mH±10%																																									
LEAKAGE INDUCTANCE	@1KHz 0.25V (1,2-7,8) SHORTED PIN3,4,5,9, 10,11,12,13,14,15,16	15uH MAX																																									
D.C.RESISTANCE	@25°C (1,2-7,8) (5-3) (4-5) (9,10,11,12-13,14,15,16)	450 mΩ MAX 700 mΩ MAX 85 mΩ MAX 2 mΩ MAX																																									
HI-POT	@10mA 1MIN	P-S 4000VAC P-C 1500VAC S-C 1500VAC																																									
<div style="text-align: right;"><table border="1"><tr><td colspan="2">TOLERANCES:</td><td colspan="2">GlobTek, Inc.</td></tr><tr><td>DECIMALS</td><td>ANGULAR</td><td colspan="2">186 Veterans Dr. Northvale, NJ 07647</td></tr><tr><td>XX ± 0.1</td><td>± °</td><td colspan="2">DWG Title: Mars Power Transformer 3.3V</td></tr><tr><td>XXX ± 0.05</td><td></td><td colspan="2"></td></tr><tr><td>MILLIMETERS</td><td>ANGULAR</td><td colspan="2"></td></tr><tr><td>.XX ± 0.1</td><td>± °</td><td colspan="2"></td></tr><tr><td>.XXX ± 0.13</td><td>± °</td><td colspan="2"></td></tr><tr><td>SIZE</td><td>MODEL NO:</td><td>PART NO:</td><td>REV.</td></tr><tr><td>A</td><td>400-0087</td><td>400-0087</td><td>C</td></tr><tr><td>SCALE: NONE</td><td colspan="3">SHEET 4 OF 6</td></tr></table></div>				TOLERANCES:		GlobTek, Inc.		DECIMALS	ANGULAR	186 Veterans Dr. Northvale, NJ 07647		XX ± 0.1	± °	DWG Title: Mars Power Transformer 3.3V		XXX ± 0.05				MILLIMETERS	ANGULAR			.XX ± 0.1	± °			.XXX ± 0.13	± °			SIZE	MODEL NO:	PART NO:	REV.	A	400-0087	400-0087	C	SCALE: NONE	SHEET 4 OF 6		
TOLERANCES:		GlobTek, Inc.																																									
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.XXX ± 0.13	± °																																										
SIZE	MODEL NO:	PART NO:	REV.																																								
A	400-0087	400-0087	C																																								
SCALE: NONE	SHEET 4 OF 6																																										

Diagrams ID 4-02

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6.WINDING TABLE:

Winding No.	Morgan Tape	Pin	Copper Wire	Turns	Winding Method	Tape Turns	Tube
N1	4mm×2L/4mm×2L	5-3	Ø0.23×2P	32Ts	CLOSED	2Ts	26L×17mm/26L×17mm
N2	4mm×2L/4mm×2L	1,2-7,8	Ø0.45×1P	32Ts	CLOSED	1Ts	26L×17mm/26L×17mm
N3	4mm×2L/4mm×2L	1,2-7,8	Ø0.45×1P	32Ts	CLOSED	1Ts	26L×17mm/26L×17mm
E1	0	-5-	0.025×18mm	0.8Ts	COPPER FOIL	3Ts	-24L×12mm-
N4	4mm×2L/4mm×2L	9,10,11,12 -13,14,15,16	0.5×18mm×3P	1Ts	COPPER FOIL	3Ts	18L×14mm/18L×14mm
E2	0	-5 -	0.025×18mm	0.8Ts	COPPER FOIL	1Ts	-24L×12mm-
N5	4mm×2L/4mm×2L	1,2-7,8	Ø0.45×1P	32Ts	CLOSED	1Ts	23L×12mm/23L×12mm
N6	4mm×2L/4mm×2L	1,2-7,8	Ø0.45×1P	32Ts	CLOSED	2Ts	23L×12mm/23L×12mm
N7	4mm×2L/0	4-5	Ø0.25×1P	2Ts	CLOSED	1Ts	28L×12mm/28L×12mm
N8	0/4mm×2L	fly- ing- fly- ing	Ø0.25×1P	1Ts	CLOSED	3Ts	28L×117mm/28L×117mm

TOLERANCES:

DECIMALS ANGULAR
XXX ± 0.1
XXX ± .005
MILLIMETERS ANGULAR
XX ± 0.2
XXX ± 0.13

GlobTek, Inc.

186 Veterans Dr. Northvale, NJ 07647

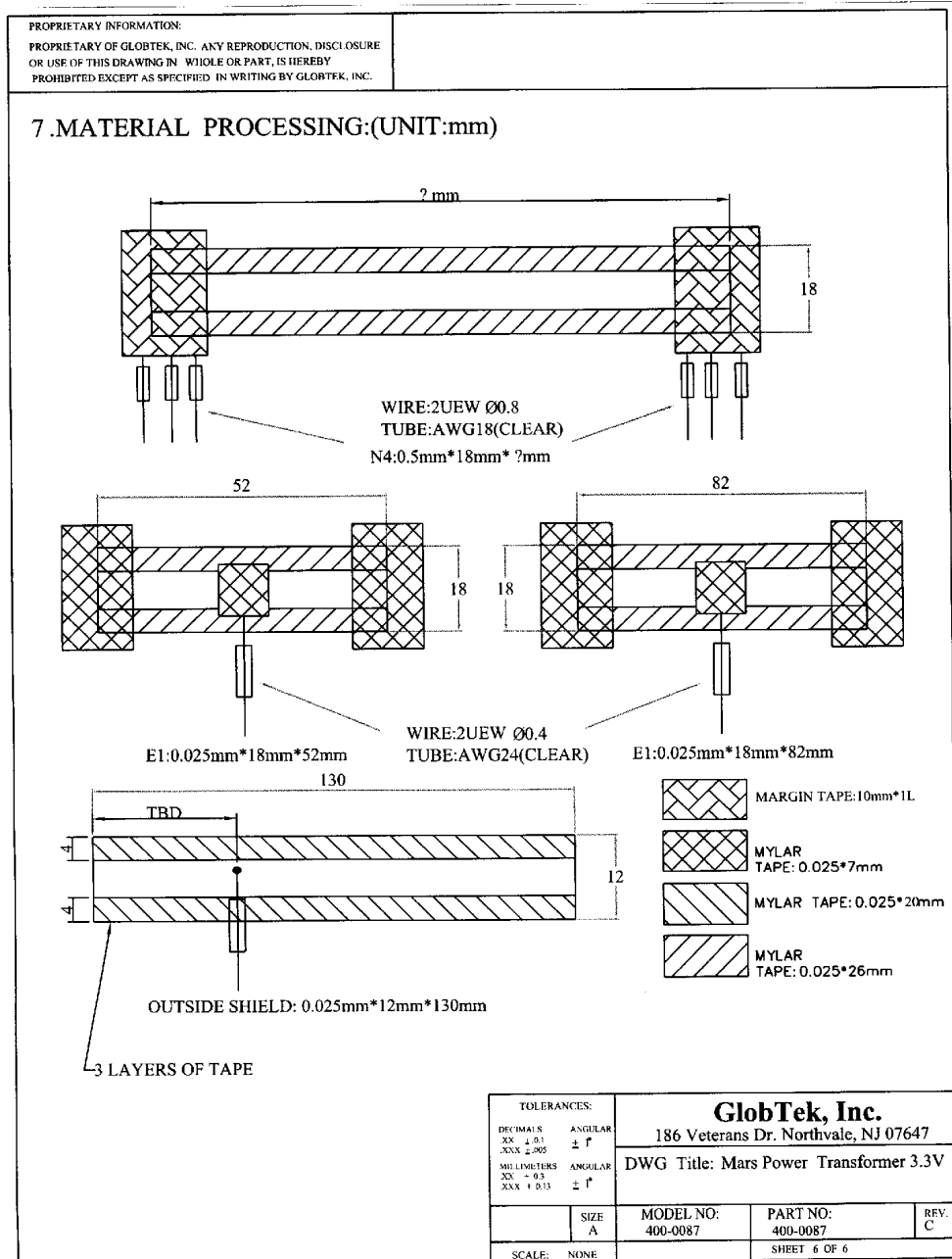
DWG Title: Mars Power Transformer 3.3V

SIZE
AMODEL NO:
400-0087PART NO:
400-0087REV.
C

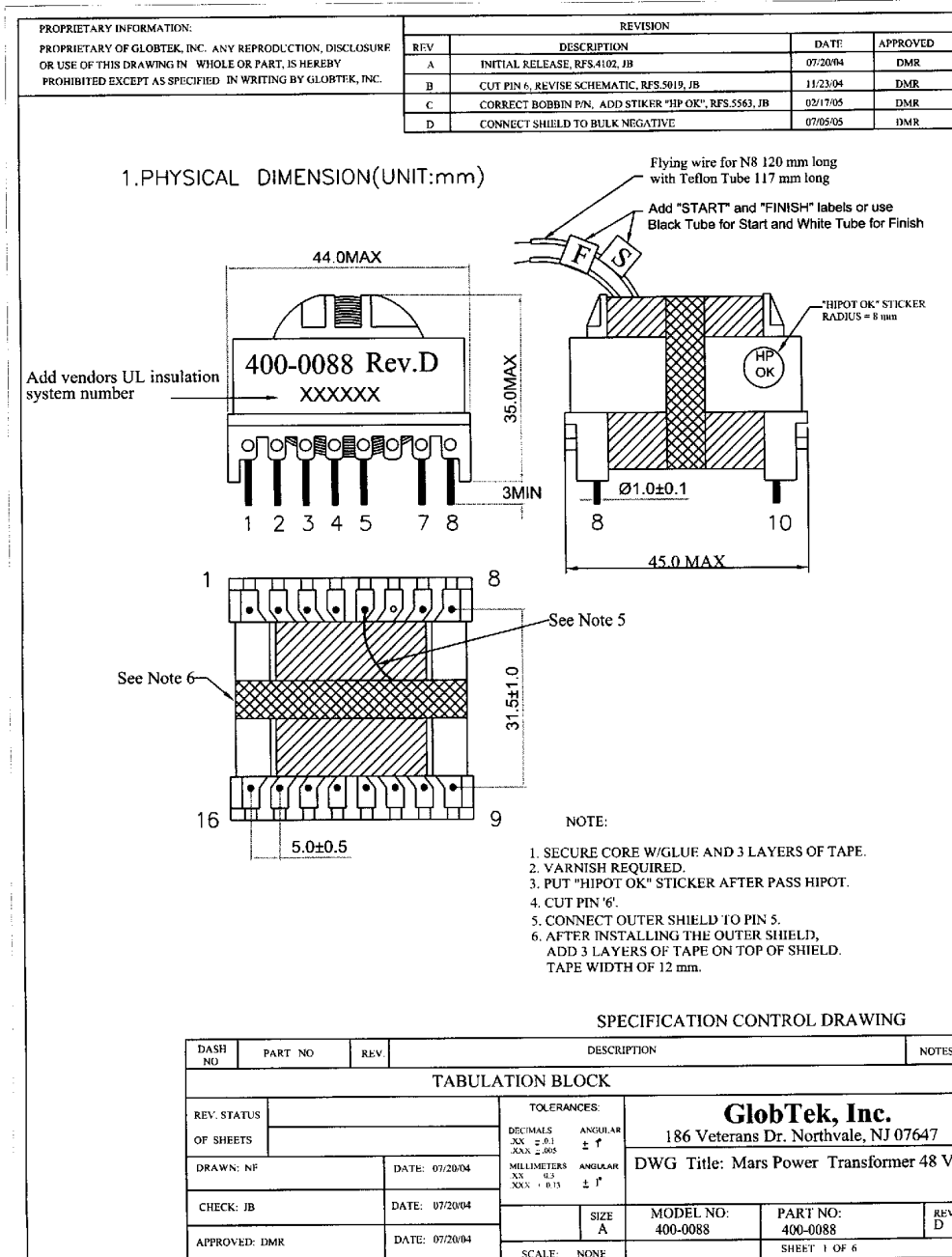
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SHEET 5 OF 6

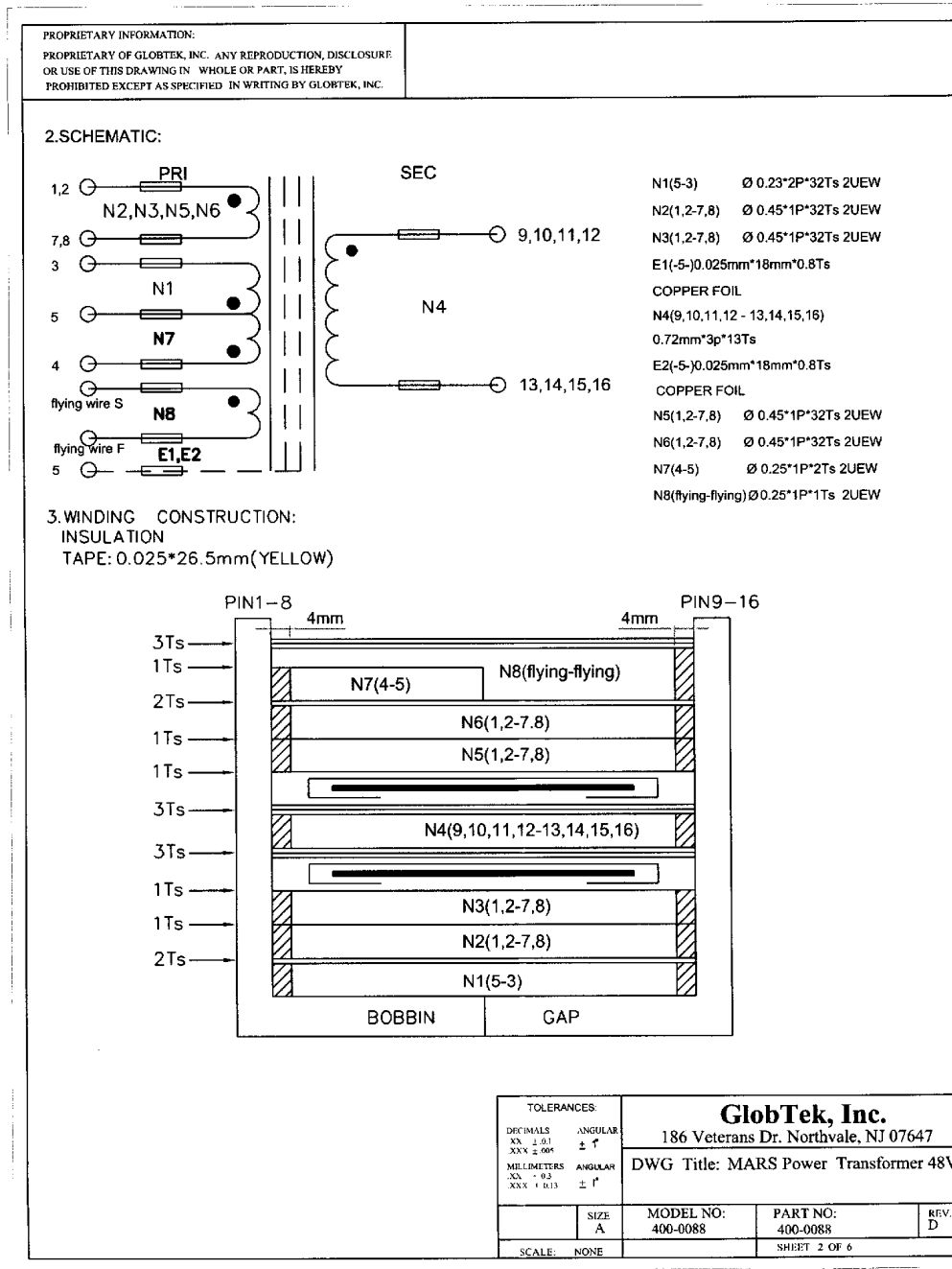
Diagrams ID 4-02



Diagrams ID 4-03



Diagrams ID 4-03



Diagrams ID 4-03

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4. MATERIAL LIST:				
NO.	TEM	MATERIAL	SUPPLIERS	UL NO.
1	BOBBIN	PHENOLIC T373J 94V-150C OR EQUIV	CHANG CHUN PLASTICS CO.,LTD.	E59481(S)
2	CORE	FERRITE CORE ETD39/20 3C90 OR PC40ETD39-Z	FERROXCUBE TDK	
3	WIRE	POLYURETHANE ENAMELLED COPPER WIRE 2UEW	WAN MON INDUSTRIAL CORP	E104091(S)
4	INSULATION TAPE	POLYESTER FILM TAPE CT-280	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO.,LTD	E165111
5	MARGIN TAPE	POLYESTER FILM TAPE WF-2902	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO.,LTD.	E165111
6	TUBE	TEFLON TUBE	FLUO TECH INDUSTRIES CO.,LTD	E175982(S)
7	COPPER FOIL	0.025*12mm 0.025*18mm	DIANQIANG MATERIAL CO.,LTD.	
8	VARNISH	WA-238A	HITACHI CHEMICAL CO.,LTD	E72979
9	SOLDER	BAR 63/37	SOLNET METAL INDUSTRY CO.,LTD.	

TOLERANCES: DIM (IN/IN) ANGULAR XX ± 0.1 ± ° XXX ± 0.05 MILLIMETERS ANGULAR XX ± 0.1 ± ° XXX ± 0.13		GlobTek, Inc. 186 Veterans Dr. Northvale, NJ 07647 DWG Title: Mars Power Transformer 48V	
SIZE	A	MODEL NO:	PART NO:
		400-0088	400-0088
SCALE:	NONE	SHEET 3 OF 6	

Diagrams ID 4-03

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5.ELECTRICAL CHARACTERISTIC:			
TEST ITEM	TEST CONDITION	RESULT	
INDUCTANCE	@1KHz 0.25V (1,2-7,8)	2.8 mH ± 20%	
LEAKAGE INDUCTANCE	@1KHz 0.25V (1,2-7,8) SHORTED PIN3,4,5,9, 10,11,12,13,14,15,16	15uH MAX	
D.C.RESISTANCE	@25°C (1,2-7,8) (5-3) (4-5) (9,10,11,12- 13,14,15 ,16)	450 mΩ MAX 700 mΩ MAX 85 mΩ MAX 75 mΩ MAX	
HI-POT	@10mA 1MIN	P-S 4000VAC P-C 1500VAC S-C 1500VAC	
TOLERANCES: DECIMALS ANGULAR XX ± 0.1 ± f XXX ± 0.05 MILLIMETERS ANGULAR XX ± 0.3 ± f° XXX ± 0.15		GlobTek, Inc. 186 Veterans Dr. Northvale, NJ 07647 DWG Title: Mars Power Transformer 48V	
SIZE A		MODEL NO: 400-0088	PART NO: 400-0088
SCALE: NONE		REV. D SHEET 4 OF 6	

Diagrams ID 4-03

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6.WINDING TABLE:

Winding No.	Margin Tape	Pin	Copper Wire	Turns	Winding Method	Tape Turns	Tube
N1	4mm×2L/4mm×2L	5-3	Ø0.23×2P	32Ts	CLOSED	2Ts	26L×17mm/26L×17mm
N2	4mm×2L/4mm×2L	1,2-7,8	Ø0.45×1P	32Ts	CLOSED	1Ts	26L×17mm/26L×17mm
N3	4mm×2L/4mm×2L	1,2-7,8	Ø0.45×1P	32Ts	CLOSED	1Ts	26L×17mm/26L×17mm
E1	0	-5-	0.025×18mm	0.8Ts	COPPER FOIL	3Ts	-24L×12mm-
N4	4mm×2L/4mm×2L	9,10,11,12 -13,14,15,16	0.72mm×3P	13Ts	CLOSED	3Ts	18L×14mm/18L×14mm
E2	0	-5-	0.025×18mm	0.8Ts	COPPER FOIL	1Ts	-24L×12mm-
N5	4mm×2L/4mm×2L	1,2-7,8	Ø0.45×1P	32Ts	CLOSED	1Ts	23L×12mm/23L×12mm
N6	4mm×2L/4mm×2L	1,2-7,8	Ø0.45×1P	32Ts	CLOSED	2Ts	23L×12mm/23L×12mm
N7	4mm×2L/0	4-5	Ø0.25×1P	2Ts	CLOSED	1Ts	28L×12mm/28L×12mm
N8	0/4mm×2L	fly- ing- fly- ing	Ø0.25×1P	1Ts	CLOSED	3Ts	28L×117mm/28L×117mm

TOLERANCES:

DECIMALS
XX ± 0.1
XXX ± 0.005
MILLIMETERS
XX - 0.3
XXX - 0.13

ANGULAR
± f
ANGULAR
± f'

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186 Veterans Dr. Northvale, NJ 07647

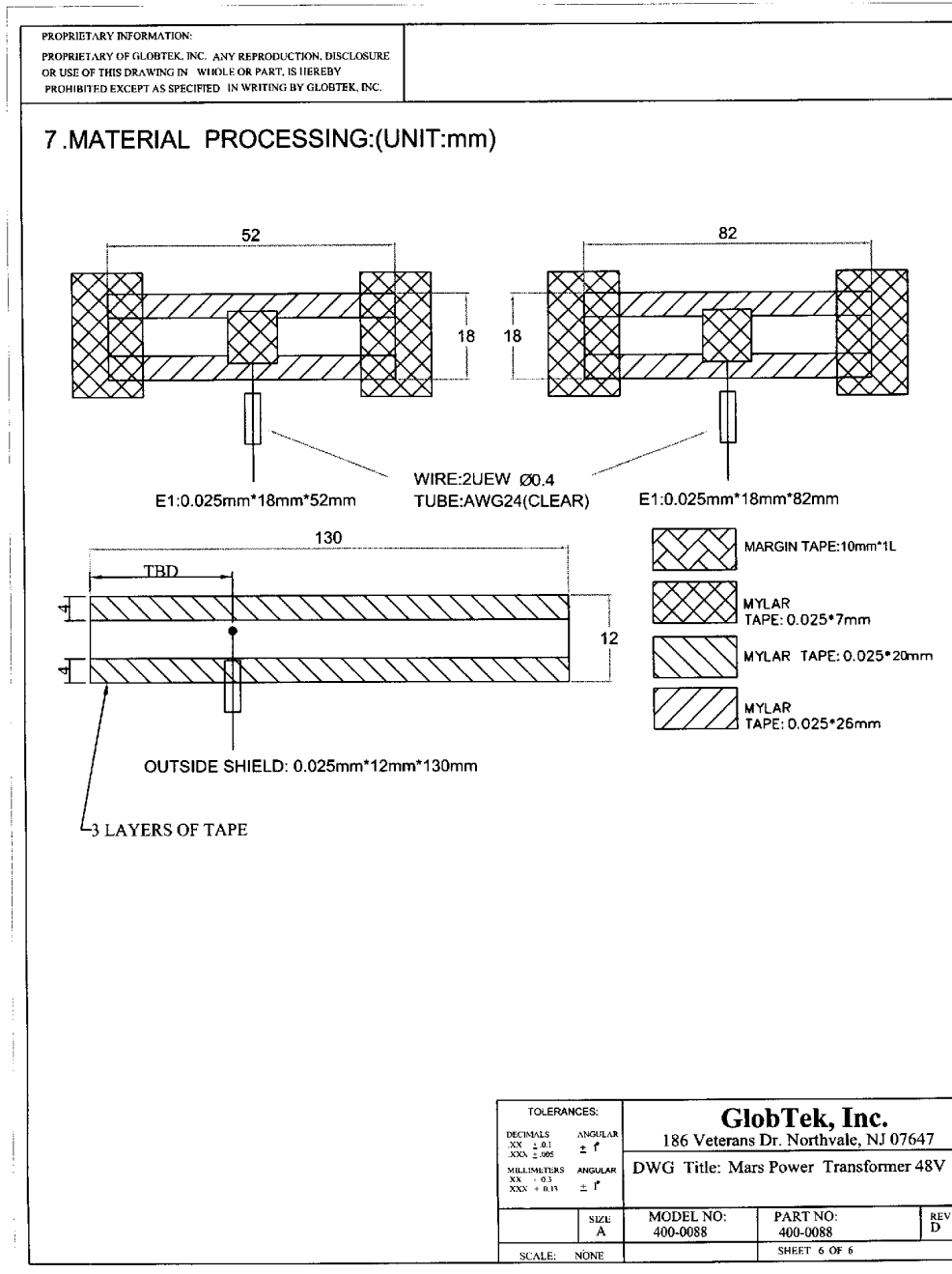
DWG Title: Mars Power Transformer 48V

SIZE
AMODEL NO:
400-0088PART NO:
400-0088REV.
D

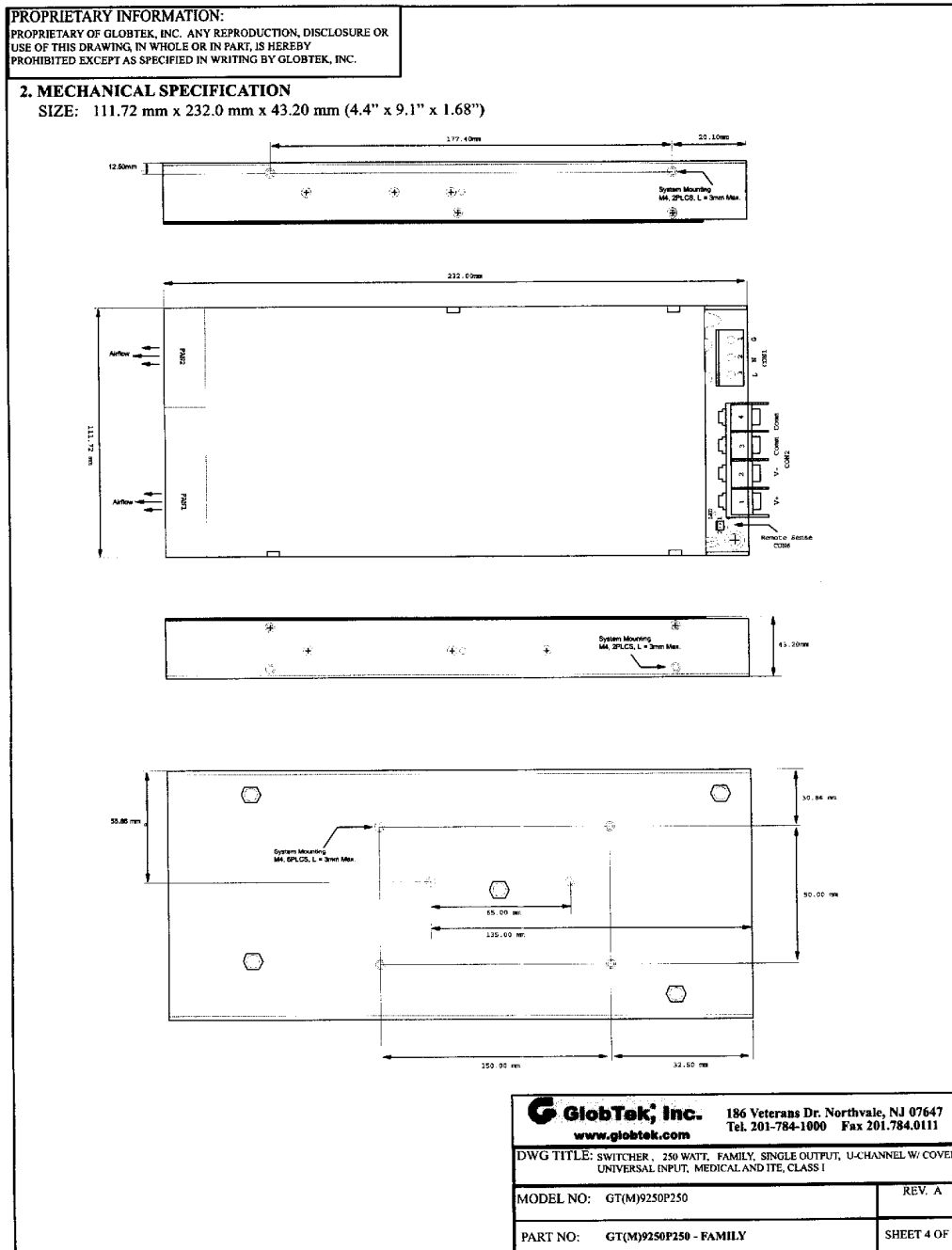
SCALE: NONE

SHEET 5 OF 6

Diagrams ID 4-03



Diagrams ID 4-05



Diagrams ID 4-07

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		A	INITIAL RELEASE	04/13/04
		B	UPDATE SPECIFICATION	03/17/05
		C	ADD TURNS	06/24/05
			APPROVED	DMR

1. PHYSICAL DIMENSION (UNIT: mm)

2. SCHEMATIC:

NOTE:

1. CORE: OD=16 mm, ID=9.2 mm, T=7.2 mm

2. WIRE: Ø=1.0 mm

DASH NO	PART NO	REV	DESCRIPTION	NOTES
TABULATION BLOCK				
		TOLERANCES: DECIMALS ANGULAR .05 ~ .61 ° ~ 1° .005 ~ .250		
		GLOBALTEK, Inc. 186 Veterans Dr. Northvale, NJ 07647 Tel. 201-784-1000 Fax 201-784-0111 www.globtek.com		
INIT BY: JB	DATE: 04/13/04	DWG TITLE: GROUND CHOKE		
DRAWN: NF	DATE: 04/13/04	FSCN No.: G. N.	SIZE: A	MODEL NO: 403-0019
APRVD: DMR	DATE: 04/13/04	CAGE CODE: GGV V90 SCALE: NONE	PART NO: 403-0019	REV: C
				SHEET 1 OF 2

Diagrams ID 4-07

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3. ELECTRICAL CHARACTERISTIC:

TEST ITEM	TEST CONDITION	RESULT
INDUCTANCE	@1KHz 0.25V (S-P)	500 μ H Minimum
D.C. RESISTANCE	@25°C (S-P)	100m Ω MAX

4. MATERIAL LIST:

NO.	ITEM	MATERIAL	SUPPLIERS	UL NO.
1	CORE	FERRITE CORE 16 x 9 x 7.2 OR EQUIV	Dark Green Core of unknown part number. See Angel.	
2	WIRE	POLYURETHANE ENAMELLED COPPER WIRE	WAN MON INDUSTRIAL CORP	E104091(S)
3	SOLDER	BAR 63/37	SOLMET METAL INDUSTRY CO. LTD	
4	TUBE	UL TUBE	QUANTA ELECTRONICS CO. LTD	E227336

GlobTek, Inc.
www.globtek.com

186 Veterans Dr. Northvale, NJ 07647
Tel. 201-784-1000 Fax 201-784-0111

DWG TITLE: GROUND CHOKE

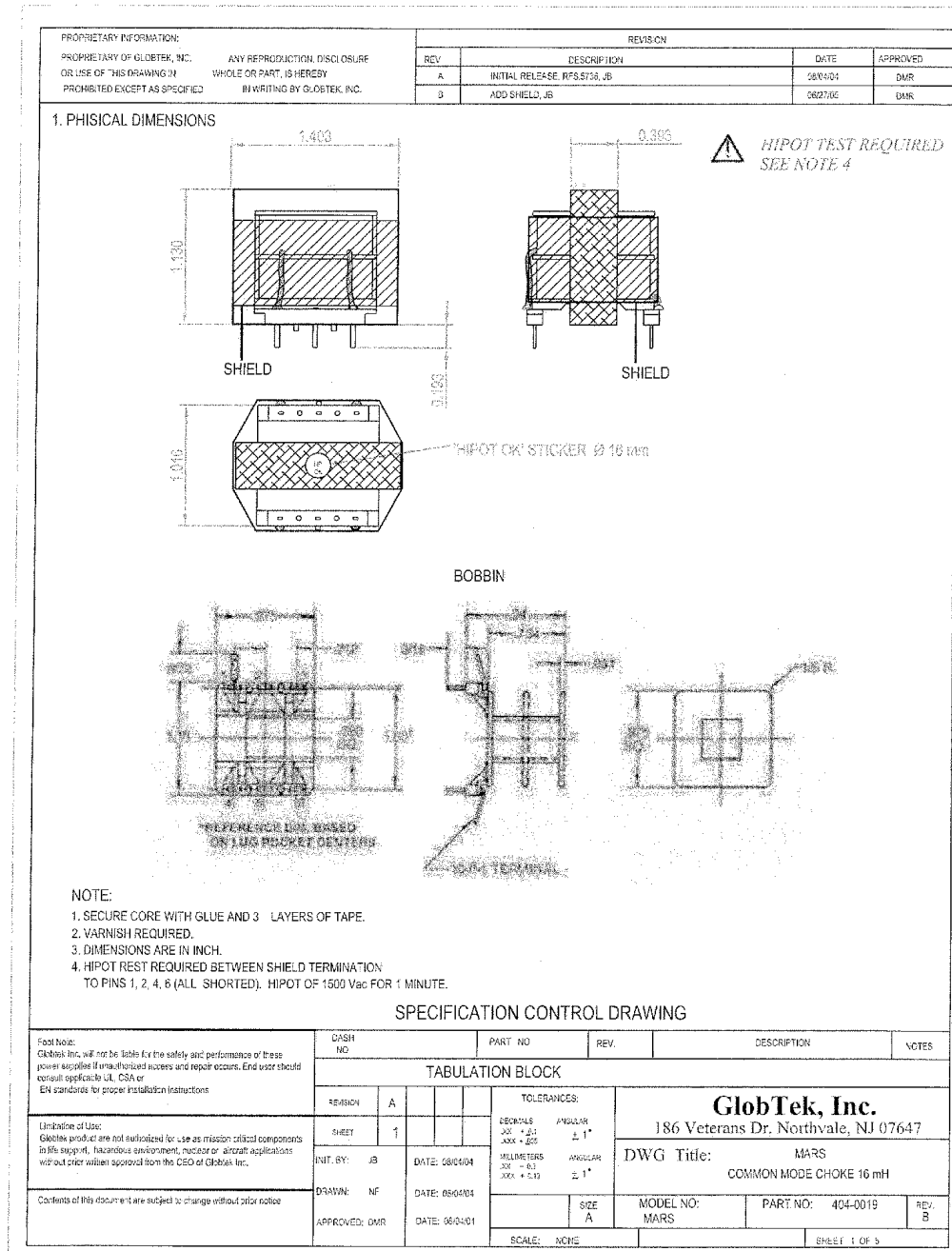
MODEL NO: 403-0019

REV.
C

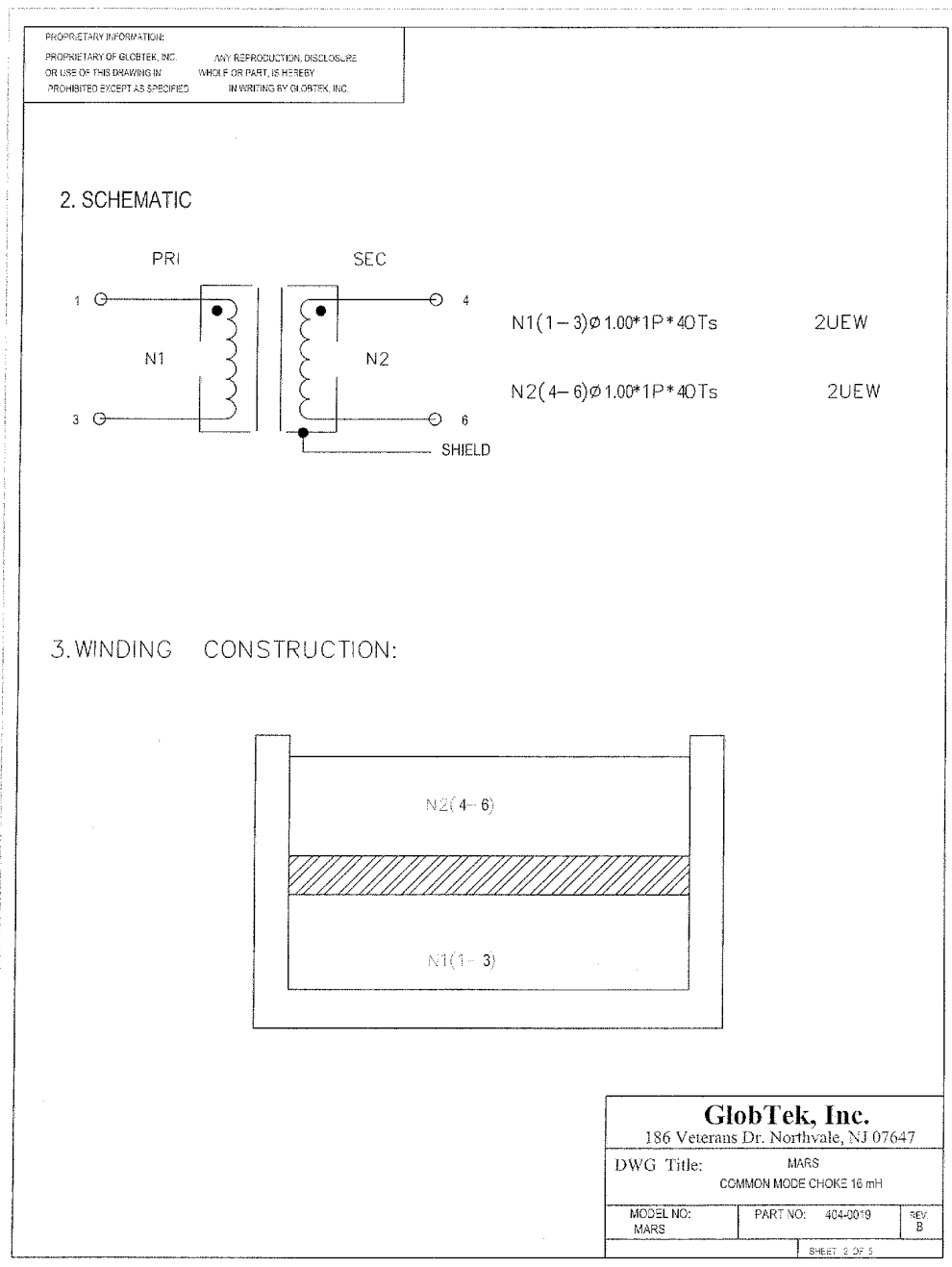
PART NO: 403-0019

SHEET 2 OF 2

Diagrams ID 4-08



Diagrams ID 4-08



Diagrams ID 4-08

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4. MATERIAL LIST:

NO.	TEM	MATERIAL	SUPPLIERS	UL NO.
1	BOBBIN	RYNITE EI 375 P/N: 0680H-34-90 OR PHENOLIC T375J 94V0 150C	PLASTRON OR CHANG CHUN PLASTICS	
2	CORE	FERRITE CORE W-43515-EC OR EE35 R10K	MAGNETICS INC. OR T.D.C.	
3	WIRE	POLYURETHANE ENAMELLED COPPER WIRE 2UEW	WAN MON INDUSTRIAL CORP. OR EQUIV.	E104091(S)
4	INSULATION TAPE	POLYESTER FILM TAPE CT-280	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO.,LTD OR EQUIV.	E165111
5	TUBE	TEFLON TUBE	FLUO TECH INDUSTRIES CO.,LTD	E175982(S)
6	VARNISH	WA-238A	HITACHI CHEMICAL CO.,LTD OR EQUIV.	E72979
7	SOLDER	BAR 63/37	SOLNET METAL INDUSTRY CO.,LTD.	
8	FOIL	COPPER 118 x 17 x 0.025		

GlobTek, Inc.

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DWG Title: MARS
COMMON MODE CHOKE 16 mHMODEL NO:
MARS

PART NO: 404-0019

REV.
B

SHEET 3 OF 6

Diagrams ID 4-08

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5.ELECTRICAL CHARACTERISTIC:

TEST ITEM	TEST CONDITION	RESULT
INDUCTANCE	@1KHz 0.25V (1-3 AND 4-6)	16mH MINIMUM
LEAKAGE INDUCTANCE	@1KHz 0.25V (1-3) SHORTED PIN 4,6	100uH MAX
D.C.RESISTANCE	@25°C (1-3) (4-6)	3.0 Ω MAX 3.0 Ω MAX
HI-POT	@10mA 1MIN	N1-N2 1500VAC

GlobTek, Inc.

186 Veterans Dr. Northvale, NJ 07647

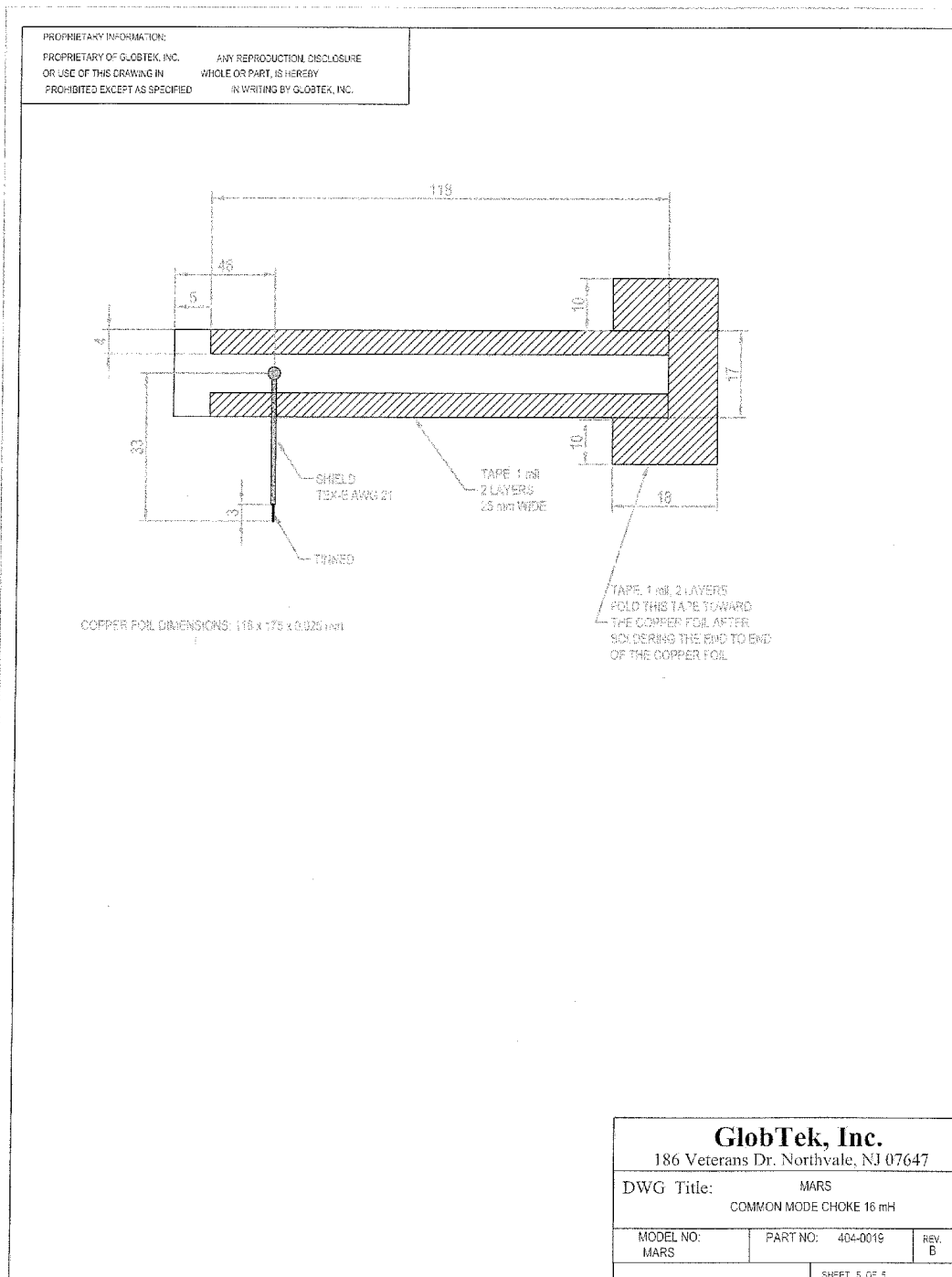
DWG Title: MARS
COMMON MODE CHOKE 16 mHMODEL NO:
MARS

PART NO: 404-0019

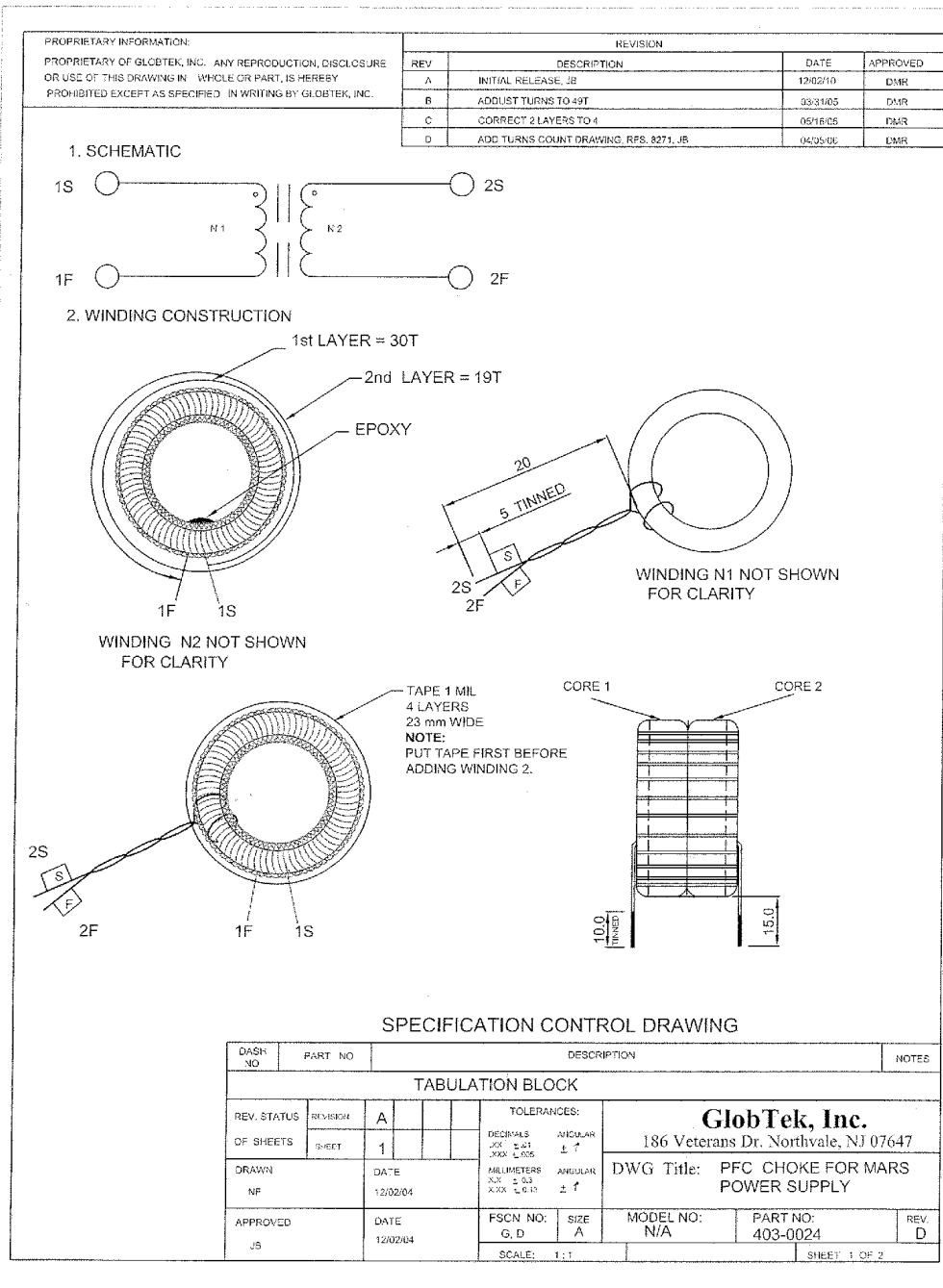
REV.
B

SHEET 4 OF 5

Diagrams ID 4-08



Diagrams ID 4-09



Diagrams ID 4-09

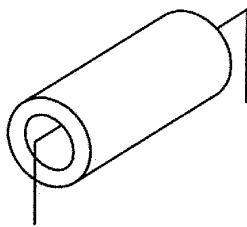
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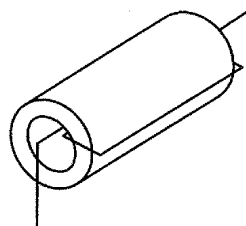
3. MATERIAL:

ITEM	SPECIFICATION
TURNS	1S - 1F: 49T 2S - 2F: 2T
WIRE GAUGE	1S - 1F: 0.30 mm X 10 STRANDS LITZ WIRE, 2S - 2F: AWG #24 TRIPLE INSULATED WIRE (TEX-E)
INDUCTANCE	1S - 1F: 350 μ H \pm 10%
DC RESISTANCE	1S - 1F: 120 mOhm MAX
CORE	ARNOLDS MAGNETICS P/N: A-894075-2 2 CORES SIDE BY SIDE
VARNISH	VARNISH REQUIRED

TOROID TURNS COUNTING SAMPLE



1 TURN



2 TURNS

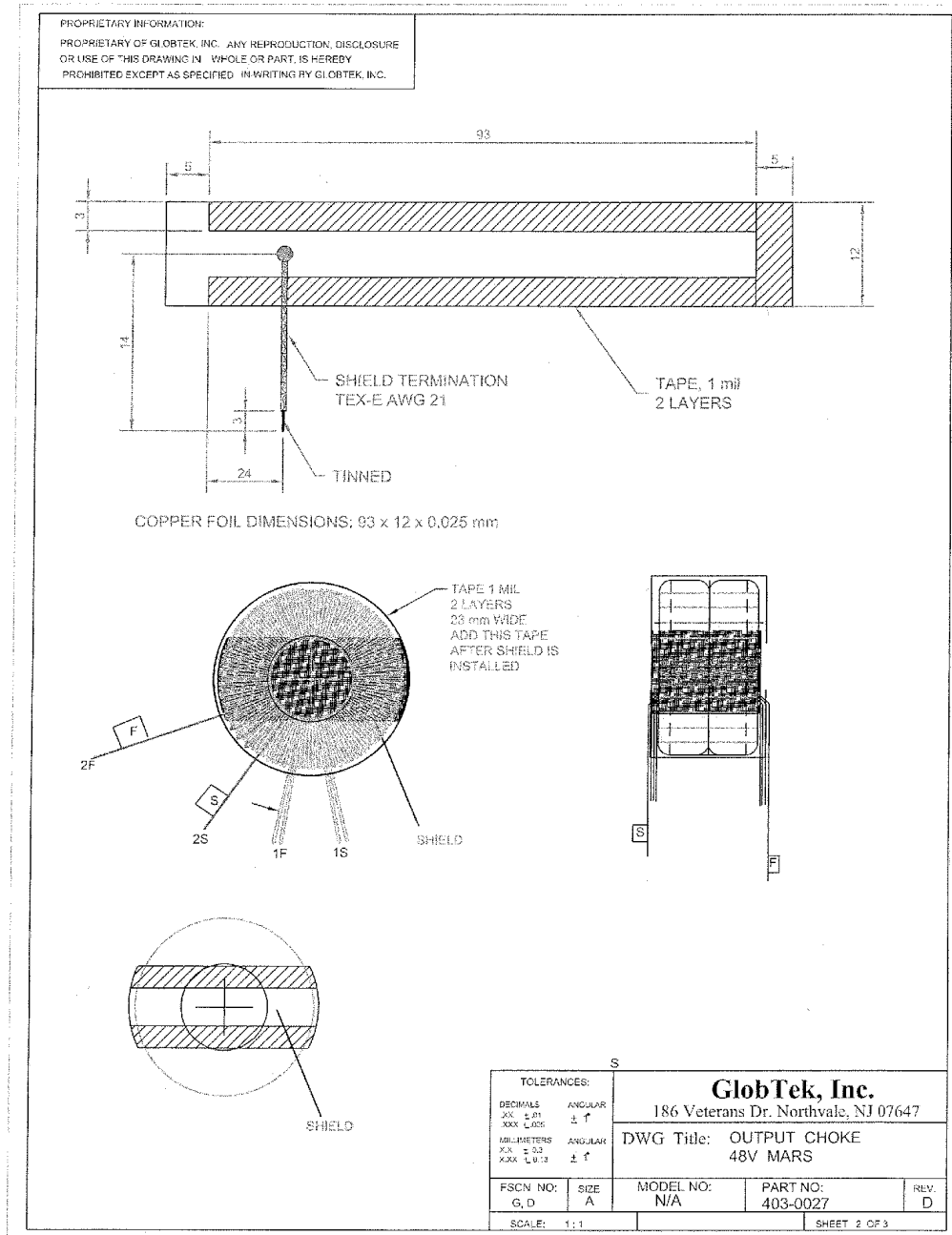
GlobTek, Inc.

186 Veterans Dr. Northvale, NJ 07647

DWG Title: PFC CHOKE FOR MARS
POWER SUPPLYMODEL NO:
N/APART NO:
403-0024REV.
D

SHEET 2 OF 2

Diagrams ID 4-10



Diagrams ID 4-10

