



Test Report issued under the responsibility of:



TEST REPORT
IEC 60950-1
Information technology equipment – Safety –
Part 1: General requirements

Report Number. : SHES150700403901-M2
Date of issue : 2015-11-25; Amendment 1: 2017-08-09;
Amendment 2: 2018-08-20
Total number of pages 16 pages

Applicant's name : GlobTek, Inc.
Address : 186 Veterans Dr. Northvale, NJ 07647, USA

Test specification:

Standard : IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
Test procedure : CB Scheme
Non-standard test method : N/A

Test Report Form No. : IEC60950_1F
Test Report Form(s) Originator : SGS Fimko Ltd
Master TRF : Dated 2014-02

Copyright © 2014 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.



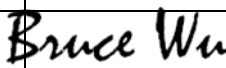
This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure 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.

General disclaimer:

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 CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description :	ITE Power Supply (Switch Mode)	
Trade Mark :	 GlobTek® ,Inc.	
Manufacturer	Same as applicant	
Model/Type reference	GT-46180-WWVV-X.XX***** series GT-41052-WWVV-X.XX***** series, GT-41062-WWVV-X.XX***** series, GT-41080-WWVV-X.XX***** series, GT-41081-WWVV-X.XX***** series Each * = 0-9 or A-Z or ()[] or blank for marketing purposes.)	
Ratings	Input: 100 V a.c. - 240 V a.c.; 50 Hz - 60 Hz; 0,6 A DC-Output: 5 V d.c. - 24 V d.c.; max. 3,2 A; max. 18 W Class II	
Testing procedure and testing location:		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing location/ address		588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
<input type="checkbox"/>	Associated CB Testing Laboratory:	
Testing location/ address		
Tested by (name + signature)		Kade Shang 
Approved by (name + signature)		Bruce Wu 
<input type="checkbox"/>	Testing procedure: TMP/CTF Stage 1:	
Testing location/ address		
Tested by (name + signature)		
Approved by (name + signature)		
<input type="checkbox"/>	Testing procedure: WMT/CTF Stage 2:	
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name + signature)		
Approved by (name + signature)		
<input type="checkbox"/>	Testing procedure: SMT/CTF Stage 3 or 4:	
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name + signature)		
Approved by (name + signature)		
Supervised by (name + signature)		

<p>List of Attachments (including a total number of pages in each attachment):</p> <p>Attachment 1 – 6 pages of Photos documents;</p> <p>Attachment 2 – 2 pages of Circuit diagram and PCB layout;</p> <p>Attachment 3 – 18 pages deviation of JAPAN.</p>	
<p>Summary of testing:</p> <p>The sample(s) tested complies with the requirements of IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013 and EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013.</p> <p>When determining the test conclusion, the Measurement Uncertainty of test has been considered.</p> <p>The original Test Report Ref. No. SHES150700403901, dated 2015-11-25; No. SHES150700403901M1, dated 2017-08-09 was modified on 2018-08-20 to include the following changes and/or additions:</p> <ul style="list-style-type: none"> - Add an alternative PCB board for all models (The alternative PCB board are same with original PCB board except Q1 and cooling fin HS1, HS2, slight different of circuit diagram near US1, and slight trace different near FS1, CS5); - Update Japan differences; <p>After comparison, test of clause 1.5, 1.6.2, 2.1.1.5, 2.5, 2.10.3, 2.10.4, 4.5.2, 5.2, 5.3.4 on alternative PCB board were considered necessary.</p> <p>Heating test (4.5): Tma = 40°C (declared by manufacturer) K-type thermocouple used for temperature measurement.</p>	
<p>Tests performed (name of test and test clause):</p> <p><input checked="" type="checkbox"/> 1. GENERAL</p> <p><input checked="" type="checkbox"/> 2. PROTECTION FROM HAZARDS</p> <p><input type="checkbox"/> 3. WIRING, CONNECTIONS AND SUPPLY</p> <p><input checked="" type="checkbox"/> 4. PHYSICAL REQUIREMENTS</p> <p><input type="checkbox"/> 5. ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS</p> <p><input type="checkbox"/> 6. CONNECTION TO TELECOMMUNICATION NETWORKS</p> <p><input type="checkbox"/> 7. CONNECTION TO CABLE DISTRIBUTION SYSTEMS</p>	<p>Testing location:</p> <p>SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.</p> <p>588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China</p>

Summary of compliance with National Differences:
Considered in previous report:

1. National differences to IEC 60950-1: 2005 (Second Edition) + A1: 2009 + A2: 2013 have been used for EU Group Differences (EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011+ A2: 2013),
2. Risk analysis and evaluation for PAHS has been performed (AfPS GS 2014:01 PAK, EK1 374-089 Rev2): see PAHS risk assessment report no. SHES1507004039IT/CHEM.
3. National differences to IEC 60950-1: 2005 have been used for CN (GB 4943.1--2011).
4. National differences to IEC 60950-1: 2005 (Second Edition) + A1: 2009 have been used for KR (K60950-1).
5. National differences to IEC 60950-1: 2005 (Second Edition) + A1: 2009 + A2: 2013 have been used for SG, AS and NZ (AS/NZS 60950.1:2015).

Considered in this report:

1. National differences to IEC 60950-1: 2005 (Second Edition) + A1: 2009 + A2: 2013 have been used for JP (J60950-1 (H29)).

The product fulfils the above requirements.

AU= Australia, CN=China, KR= Korea, SG=Singapore, JP=Japan, NZ= New Zealand.

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective National Certification Body that own these marks.

(Additional requirements for markings. See 1.7 NOTE)

See the original report SHES150700403901 for details.

Test item particulars :	
Equipment mobility :	<input type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input checked="" type="checkbox"/> direct plug-in
Connection to the mains :	<input checked="" type="checkbox"/> pluggable equipment <input checked="" type="checkbox"/> type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input type="checkbox"/> not directly connected to the mains
Operating condition :	<input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time:
Access location	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location
Over voltage category (OVC)	<input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input type="checkbox"/> other:
Mains supply tolerance (%) or absolute mains supply values	±10%
Tested for IT power systems	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
IT testing, phase-phase voltage (V)	N/A
Class of equipment	<input type="checkbox"/> Class I <input checked="" type="checkbox"/> Class II <input type="checkbox"/> Class III <input type="checkbox"/> Not classified
Considered current rating of protective device as part of the building installation (A)	16 A
Pollution degree (PD)	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
IP protection class	IP20
Altitude during operation (m)	≤ 4000 m
Altitude of test laboratory (m)	≤ 100 m
Mass of equipment (kg)	0,058 kg
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)
Testing :	
Date of receipt of test item	2018-05-27
Date (s) of performance of tests	2018-05-27 to 2018-08-14

General remarks:

“(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 ☒ comma / ☐ point is used as the decimal separator.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 3 months only.

Manufacturer's Declaration per sub-clause 4.2.5 of IECCE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided

☒ **Yes**

☐ **Not applicable**

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) 1. GlobTek (Suzhou) Co.,Ltd.
Building 4, 76 Jinling East Road, Suzhou Industrial Park, Suzhou, 215021 Jiangsu, China
2. GlobTek, Inc.
186 Veterans Dr. Northvale, NJ 07647 USA

General product information:

Product name	ITE Power Supply (Switch Mode)
Model	GT-46180-WWVV-X.XX***** series GT-41052-WWVV-X.XX***** series, GT-41062-WWVV-X.XX***** series, GT-41080-WWVV-X.XX***** series GT-41081-WWVV-X.XX***** series
Explanation of model designation	WW is the standard output wattage, with a maximum value of "18", VV is the standard rated output voltage designation, with a maximum value of "24"; which can be 05, 09, 12, 15, 18, 24. -X.XX denote the output voltage differentiator, subtracting X.XX volts from standard output voltage VV in 0.01V increments, the actual output voltage range is 5-24V, blank is to indicate the no voltage different. Each * = 0-9 or A-Z or () or blank for marketing purposes.
Power rating	Input: 100 - 240 Vac; 50 - 60 Hz; 0,6 A DC-Output: Max. 3,2 A; 5 V d.c. - 24 V d.c.; Max. 18 W
Functions	The EUT are Class II switching power adaptors for ITE and designed for continuous operation. They are indoor use only.

Examples of model name and relevant output ratings.:

Model	Output Voltage (Vd.c.)	Max output current
GT-46180-1605	5V	3,2A
GT-46180-1809	9V	2,0A
GT-46180-1812	12V	1,5A
GT-46180-1815	15V	1,2A
GT-46180-1818	18V	1,0A
GT-46180-1824-4.0	20V	0,9A
GT-46180-1824	24V	0,75A
GT-46180-1305	5V	2,6A
GT-46180-1509	9V	1,66A
GT-46180-1512	12V	1,25A
GT-46180-1515	15V	1,0A
GT-46180-1518	18V	0,83A
GT-46180-1524-4.0	20V	0,75A
GT-46180-1524	24V	0,625A

Amendment 1 Report:

The original test report Ref. No. SHES150700403901, dated 2015-11-25, was amended on 2017-08-09 to include the following additions and/or changes:

- Update the national deviation for Australia, New Zealand and Japan.

After comparison, No test was considered necessary.

Amendment 2 Report:

The original Test Report Ref. No. SHES150700403901, dated 2015-11-25; No. SHES150700403901M1, dated 2017-08-09 was modified on 2018-08-20 to include the following changes and/or additions:

- Add an alternative PCB board for all models (The alternative PCB board are same with original PCB board except Q1 and cooling fin HS1, HS2, slight different of circuit diagram near US1, and slight trace

different near FS1, CS5);

- Update Japan differences;

After comparison, test of clause 1.5, 1.6.2, 2.1.1.5, 2.5, 2.10.3, 2.10.4, 4.5.2, 5.2, 5.3.4 on alternative PCB board were considered necessary.

This test report is not valid without the original CB Test Report Ref. No. SHES150700403901, dated 2015-11-25 and No. SHES150700403901M1, dated 2017-08-09.

Abbreviations used in the report:

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

Indicate used abbreviations (if any)

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.5	Components		P
1.5.1	General		P
	Comply with IEC 60950-1 or relevant component standard	(see appended tables 1.5.1) in original report.	P
1.5.2	Evaluation and testing of components	<p>Certified components are used in accordance with their ratings, certifications and they comply with applicable parts of this standard.</p> <p>Components not certified are used in accordance with their ratings and they comply with applicable parts of IEC 60950-1 and the relevant component standard.</p> <p>Components, for which no relevant IEC-standard exists, have been tested under the conditions occurring in the equipment, using applicable parts of IEC 60950-1.</p>	P
1.6	Power interface		P
1.6.2	Input current	(see appended table 1.6.2)	P
2	PROTECTION FROM HAZARDS		P
2.1	Protection from electric shock and energy hazards		P
2.1.1.5	Energy hazards		P
2.5	Limited power sources		P
	a) Inherently limited output		P
	b) Impedance limited output		N/A
	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition	Regulating network.	P
	Use of integrated circuit (IC) current limiters		N/A
	d) Overcurrent protective device limited output		N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA)	(see appended table 2.5)	—
	Current rating of overcurrent protective device (A) .:		—
2.10	Clearances, creepage distances and distances through insulation		—
2.10.3	Clearances	(see appended table 2.10.3 and 2.10.4)	P
2.10.3.1	General		P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.3.2	Mains transient voltages		P
	a) AC mains supply	Overvoltage Category II	P
	b) Earthed d.c. mains supplies		N/A
	c) Unearthed d.c. mains supplies		N/A
	d) Battery operation		N/A
2.10.3.3	Clearances in primary circuits	(see appended table 2.10.3 and 2.10.4)	P
2.10.3.4	Clearances in secondary circuits		N/A
2.10.3.5	Clearances in circuits having starting pulses		N/A
2.10.3.6	Transients from a.c. mains supply		P
2.10.3.7	Transients from d.c. mains supply		N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems		N/A
2.10.3.9	Measurement of transient voltage levels		N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network :		N/A
2.10.4	Creepage distances	(see appended table 2.10.3 and 2.10.4)	P
2.10.4.1	General		P
2.10.4.2	Material group and comparative tracking index		P
	CTI tests	Material group IIIb is assumed to be used.	—
2.10.4.3	Minimum creepage distances	(see appended table 2.10.3 and 2.10.4)	P

4.5	Thermal requirements		P
4.5.1	General		P
4.5.2	Temperature tests		P
	Normal load condition per Annex L		—
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P

5.2	Electric strength		—
5.2.1	General	(see appended table 5.2)	P
5.2.2	Test procedure	(see appended table 5.2)	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

5.3	Abnormal operating and fault conditions		—
5.3.4	Functional insulation :	Complies with a), b) and c).	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

1.6.2	TABLE: Electrical data (in normal conditions)						P
U (V)	I (A)	I _{rated} (A)	P (W)	Fuse #	I _{fuse} (A)	Condition/status	
Test on GT-46180-1605							
90/50Hz	0,37	--	20,11	FS1	0,37	Loaded with 5 V / 3,2 A.	
100/50Hz	0,35	0,6	19,89	FS1	0,35	Loaded with 5 V / 3,2 A.	
240/50Hz	0,18	0,6	19,42	FS1	0,18	Loaded with 5 V / 3,2 A.	
264/50Hz	0,16	--	19,48	FS1	0,16	Loaded with 5 V / 3,2 A.	
90/60Hz	0,39	--	20,11	FS1	0,39	Loaded with 5 V / 3,2 A.	
100/60Hz	0,35	0,6	19,89	FS1	0,35	Loaded with 5 V / 3,2 A.	
240/60Hz	0,18	0,6	19,42	FS1	0,18	Loaded with 5 V / 3,2 A.	
264/60Hz	0,17	--	19,48	FS1	0,17	Loaded with 5 V / 3,2 A.	
Test on GT-46180-1824							
90/50Hz	0,39	--	21,00	FS1	0,39	Loaded with 24 V / 0,75 A.	
100/50Hz	0,35	0,6	20,81	FS1	0,35	Loaded with 24 V / 0,75 A.	
240/50Hz	0,18	0,6	20,25	FS1	0,18	Loaded with 24 V / 0,75 A.	
254/50Hz	0,17	--	20,26	FS1	0,17	Loaded with 24 V / 0,75 A.	
264/50Hz	0,17	--	20,26	FS1	0,17	Loaded with 24 V / 0,75 A.	
90/60Hz	0,39	--	21,00	FS1	0,39	Loaded with 24 V / 0,75 A.	
100/60Hz	0,35	0,6	20,81	FS1	0,35	Loaded with 24 V / 0,75 A.	
240/60Hz	0,18	0,6	20,25	FS1	0,18	Loaded with 24 V / 0,75 A.	
254/60Hz	0,17	--	20,26	FS1	0,17	Loaded with 24 V / 0,75 A.	
264/60Hz	0,17	--	20,26	FS1	0,17	Loaded with 24 V / 0,75 A.	
Supplementary information:							

2.1.1.5 c) 1)	TABLE: max. V, A, VA test					P
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)		
Test on GT-46180-1605						
5	3	5,19	3,92	19,33		
Test on GT-46180-1824						
24	0,75	23,95	1,31	30,98		
supplementary information:						

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

2.5	TABLE: Limited power sources					P
Circuit output tested: 5 Vd.c., 3,2A; 24Vd.c.,0,75 A						
Note: Measured Uoc (V) with all load circuits disconnected:						
Components	Sample No.	Uoc (V)	I _{sc} (A)		VA	
			Meas.	Limit	Meas.	Limit
GT-46180-1605						
Normal condition	A1	5,19	3,94	8	19,48	100
Single fault (RS5 short)	A1	0	0	8	0	100
Single fault (RS5 open)	A1	6,41	0	8	0	100
Single fault (U1 pin 1-2 short)	A1	9,18	0	8	0	100
Single fault (RS19 short)	A1	0	0	8	0	100
Single fault (Rs12 short)	A1	0	0	8	0	100
GT-46180-1824						
Normal condition	A1	23,95	1,34	8	31,40	100
Single fault (RS5 short)	A1	24,0	0	8	0	100
Single fault (RS5 open)	A1	0	0	8	0	100
Single fault (U1 pin 1-2 short)	A1	26,8	0	8	0	100
Single fault (RS19 short)	A1	35,1	0	8	0	100
Single fault (Rs12 short)	A1	0	0	8	0	100
supplementary information:						
1) Oc= open circuit, Sc = short circuit.						

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

2.10.3 and 2.10.4	TABLE: Clearance and creepage distance measurements						P
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm) ⁵⁾	cl (mm)	Required cr (mm)	cr (mm)	
Functional:							
--	--	--	--	--	--	--	
Basic/supplementary:							
--	--	--	--	--	--	--	
Reinforced:							
Primary winding to secondary winding of transformer (T1)	564	310	5,7	6,3	6,2	6,3	
Secondary winding to ferrite core of transformer (T1)	564	310	5,7	6,3	6,2	6,3	
HS1 → CY1 Sec. pin	340	240	5,2	6,7	5,2	6,7	
Input blade pin → access parts (AU plug) (only plug)	340	240	5,2	5,3	5,2	5,3	
Input blade pin → access parts (EU plug) (only plug)	340	240	5,2	5,6	5,2	5,6	
Input blade pin → access parts (UK plug) (only plug)	340	240	5,2	5,5	5,2	5,5	
Between CY1	340	240	5,2	6,9	5,2	6,9	
Between U1	340	240	5,2	7,2	5,2	7,2	
CY1 (Pri.) → RS17 (with 1.1mm width cut groove)	340	240	5,2	6,2	5,2	6,2	
Supplementary information:							
--							

4.5	TABLE: Thermal requirements			P
	Supply voltage (V) :	90 V / 60 Hz	264 V / 50 Hz	—
	Ambient T _{min} (°C) :	40	40	—
	Ambient T _{max} (°C) :	40	40	—
Maximum measured temperature T of part/at.....:		T (°C)		Allowed T _{max} (°C)
Test on GT-46180-1605				
Test condition		horizontal	horizontal	-
Input plug holder (near blade)		46,0	44,5	105,0
LF1 coil		97,1	75,0	105,0
CX1 body		82,8	71,9	100,0
C1 body		87,8	80,5	105,0

IEC 60950-1							
Clause	Requirement + Test				Result - Remark		Verdict
HS1 body near Q1		93,6		95,2		130,0	
T1 coil		95,1		90,9		110,0	
T1 core		94,1		90,8		110,0	
U1 body		79,2		76,5		100,0	
PCB body near T1		86,3		82,7		130,0	
HS2 body near D1		103,3		100,5		130,0	
PCB body near BD1		99,9		78,7		130,0	
Output wire		72,9		71,1		80,0	
Internal plastic of enclosure near T1		70,4		68,7		105,0	
External plastic of enclosure near T1		61,1		60,1		95,0	
Test on GT-46180-1824							
Test condition		horizontal		horizontal		-	
Input plug holder (near blade)		46,2		43,9		105,0	
LF1 coil		77,6		72,1		105,0	
CX1 body		78,4		64,3		100,0	
C1 body		85,0		74,4		105,0	
HS1 body near Q1		91,3		80,2		130,0	
T1 coil		82,7		80,2		110,0	
T1 core		91,3		89,5		110,0	
U1 body		76,1		73,1		100,0	
PCB body near T1		81,8		79,4		130,0	
PCB body near BD1		96,6		75,7		130,0	
Output wire		63,2		61,9		80,0	
Internal plastic of enclosure near T1		67,4		65,6		105,0	
External plastic of enclosure near T1		59,0		57,5		95,0	
Supplementary information:							
1) The limited value of power supply unit temperature refers to the power supply test report.							
Temperature T of winding:	t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
--	--	--	--	--	--	--	--
Supplementary information:							

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests		P
Test voltage applied between:		Voltage shape (AC, DC, impulse, surge)	Test voltage (V)
Functional:			Breakdown Yes / No
L to N before fuse		AC	1500
Basic			
--		--	--
Reinforced:			
Unit: Primary / SELV		DC	4242
Unit: Primary / Enclosure with foil		DC	4242
Insulation tapes		DC	4242
Supplementary information:			
All testing Including after Humidity required of clause 2.9, there are including unit, transformer and all material of transformer, see appended tables 1.5.1			

*****End of Test report*****

Details of: General view (model: GT-46180-1605)



Details of: General view (model: GT-46180-1605)



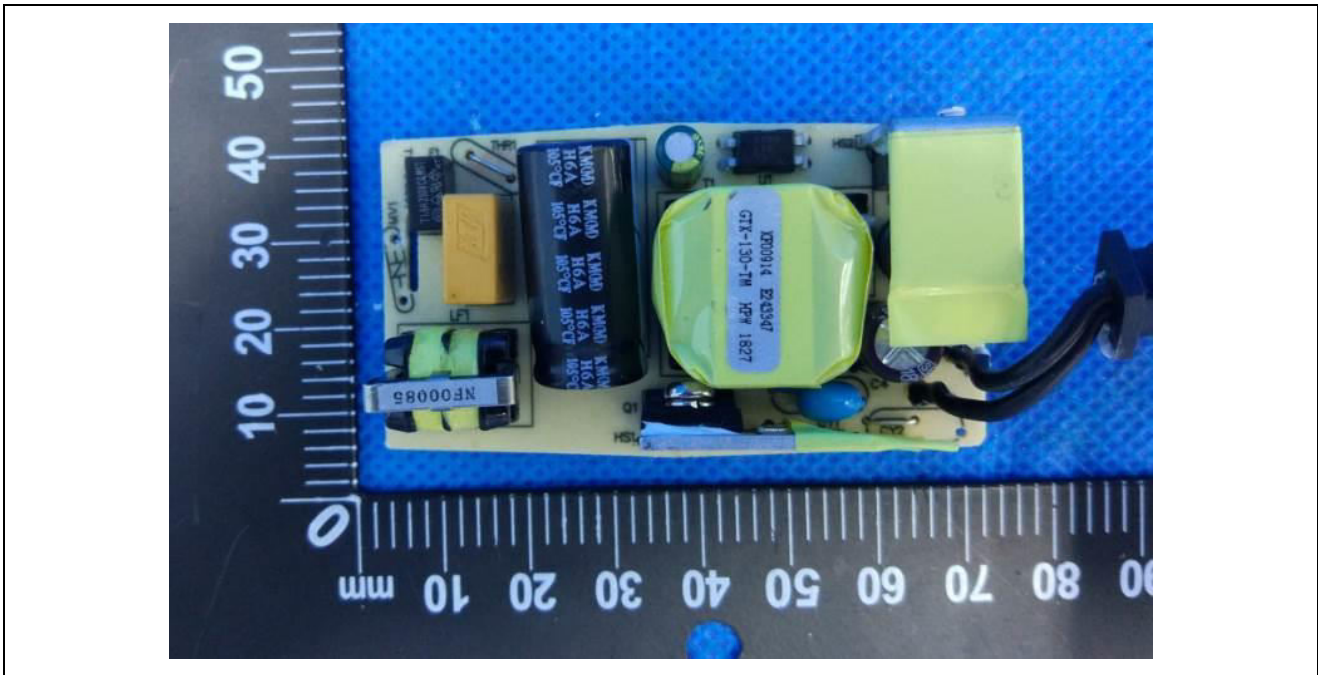
Details of: Internal view (alternative PCB board) (model: GT-46180-1605)



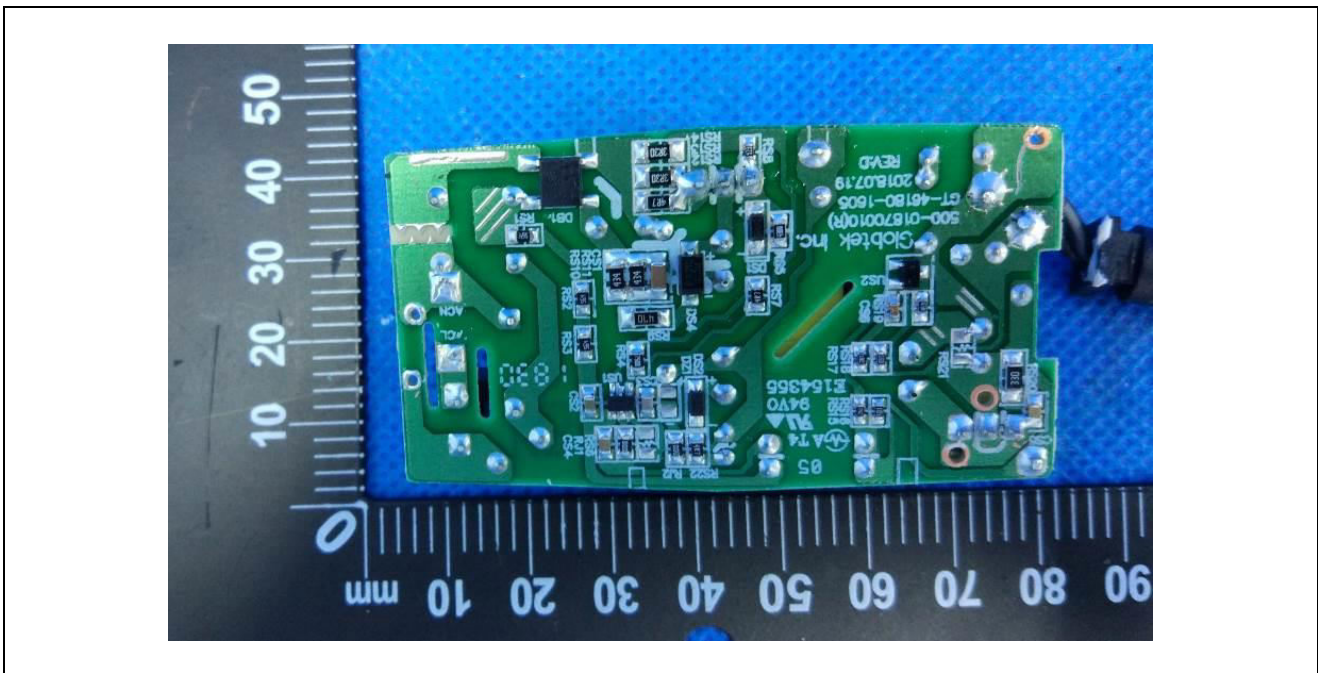
Details of: Internal view (alternative PCB board) (model: GT-46180-1605)



Details of: PCB (alternative PCB board) (model: GT-46180-1605)



Details of: PCB (alternative PCB board) (model: GT-46180-1605)



Details of: General view (model: GT-46180-1824)

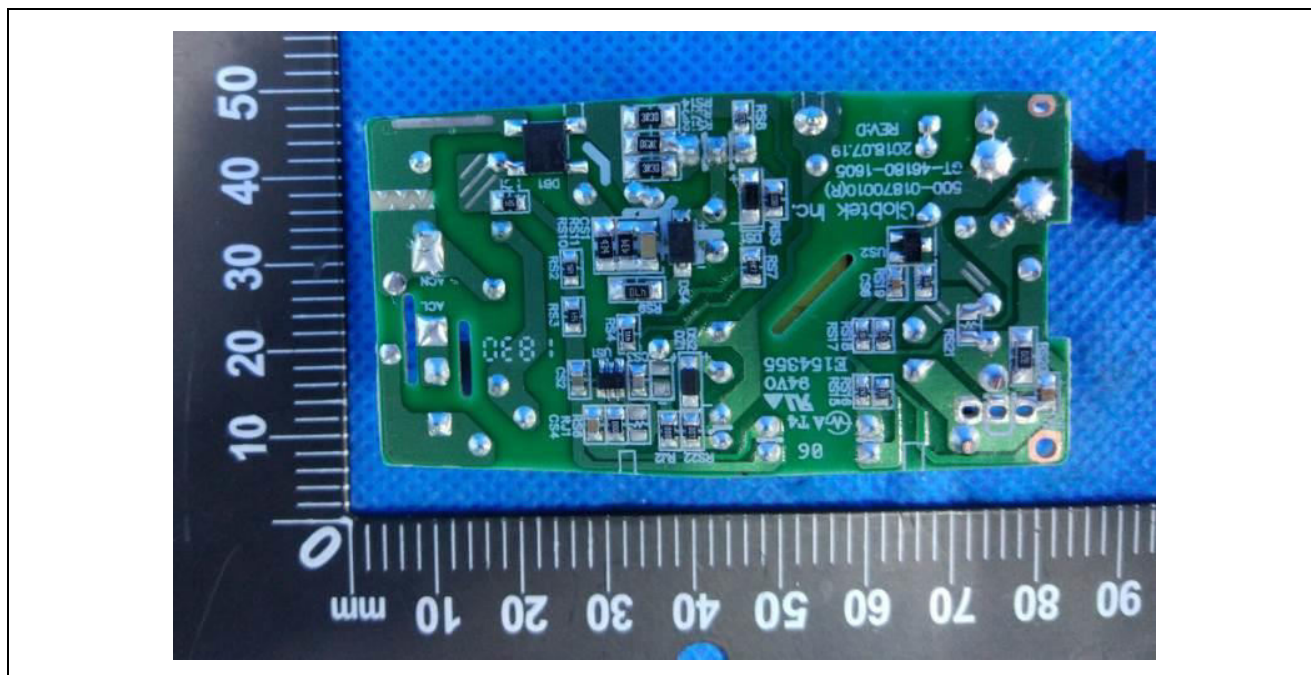


Details of: General view (model: GT-46180-1824)



[illegible]

Details of: Internal view (alternative PCB board) (model: GT-46180-1824)




IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict

Attachment Deviations of Japan

ATTACHMENT TO TEST REPORT IEC 60950-1 with A1: 2009 and A2: 2013 JAPAN NATIONAL DIFFERENCES Information technology equipment – Safety – Part 1: General requirements	
Corresponding National Standard	J60950-1 (H29)
Regulatory Requirements	Electrical Appliances and Materials Safety Act Article 8, 9 and Appendix 12


National Differences - Japan			
1.2.4.1	Add the following new notes. Note: Even if the equipment is designed as Class I, the equipment is regarded as CLASS 0I EQUIPMENT (see 1.2.4.3A) when 2-pin adaptor with earthing lead wire or cord set having 2-pin plug with earthing lead wire is provided or recommended.	Class II direct plug-in equipment.	N/A
1.2.4.3A	Add the following new clause. 1.2.4.3A CLASS 0I EQUIPMENT Equipment having attachment plug without earthing blade, where protection against electric shock is achieved by: <ul style="list-style-type: none"> - using BASIC INSULATION, and - providing either of the following a) or b) in order to connect those conductive parts that might assume a HAZARDOUS VOLTAGES in the event of BASIC INSULATION fault to the PROTECTIVE EARTHING CONDUCTOR in the building wiring. <ul style="list-style-type: none"> a) Provision of 2-pin plug with earthing lead including the condition of that 2-pin adaptor with earthing lead wire is provided or recommended. b) Provision of an independent earthing terminal, when 2-core mains cord (without earthing conductor) is used. Note – CLASS 0I EQUIPMENT may have a part constructed with Double Insulation or Reinforced Insulation.	Class II direct plug-in equipment.	N/A

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
1.3.2	<p>Add the following notes after the first paragraph:</p> <p>Note 1 Transportable or similar equipment that are relocated frequently for intended usage should not be designed as Class I or CLASS 0I EQUIPMENT unless it is intended to be installed by service personnel.</p> <p>Note 2 Considering wiring circumstance in Japan, equipment intended to be installed where the provision for earthing connection is unlikely should not be designed as Class I or CLASS 0I EQUIPMENT unless it is intended to be installed by service personnel.</p>	Class II direct plug-in equipment.	N/A
1.5.1	<p>Replace the first paragraph with the follows:</p> <p>Where safety is involved, components shall comply either with the requirements of this standard, with the safety aspects of the relevant JIS component standard, or IEC component standards, or components shall have equivalent to or better properties than these.</p> <p>Replace Note 1 with the following:</p> <p>Note 1 Components complying with the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is regarded to have equivalent to or better performance.</p> <p>Note 2 JIS or an IEC component standard is considered relevant only if the component in question clearly falls within its scope.</p> <p>Add the following after the last paragraph:</p> <p>For an appliance connector that is able to fit with appliance inlet compatible with the standard sheet of IEC 60320-1 or JIS C 8283-1, the size of the connector shall comply with relevant standard sheet of IEC 60320-1 or JIS C 8283-1. A power supply cord set complying with JIS C 8286 is regarded to comply with this requirement.</p> <p>Note 3 A power supply cord set provided with appliance connector that is able to fit with appliance inlet compatible with the standard sheet of IEC 60320-1 or JIS C 8283-1 should comply with JIS C 8286.</p>	Considered.	P
1.5.2	<p>Add the following Note 2 after the 4th dashed paragraph:</p> <p>Note 2 See 1.7.5A when Type C.14 appliance coupler rated 10 A per JIS C 8283-1 is used with an equipment rated not more than 125 V and rated more than 10 A.</p>		N/A

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
1.5.5	Add the following Note after the last paragraph: NOTE An interconnection cord sets provided with interconnecting coupler for mains supply complying with JIS C 8283-2-2 should comply with JIS C 8286.		N/A
1.5.9.1	Add the following in the last of NOTE 1. Gas discharge tube connected in series with VDR may be used.		N/A
1.7	Replace EE.2 and EE.4 with the following: JA.1 Shredder warning JA.3 Shredder power disconnection		N/A
1.7.1.2	Replace first and second dashed paragraphs with the followings: - manufacturer's or responsible company's name or trade-mark or identification mark; - manufacturer's or responsible company's model identification or type reference;		P
1.7.2.1	Add the following after the second paragraph. Instruction or equipment marking regarding safety shall be written in Japanese unless otherwise permitted in this standard.	It should be considered during national approval.	N/A
1.7.2.5	Replace the last sentence with the following: An acceptable marking for an electric shock  hazard is (6.2.4 of JIS S 0101).		N/A
1.7.5	Replace the second paragraph with the following. Socket-outlets conforming to JISC8282-1 are examples of standard power supply outlets.	No such device used.	N/A

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.5A	<p>Add the following new clause after 1.7.5.</p> <p>1.7.5A Power supply cord set If appliance coupler according to IEC60320-1, C.14(rated current: 10A) is used in equipment whose rated voltage is less than 125V and rated current is over 10A, the following instruction or equivalent shall be described in the operating instruction. “ Use only designated cord set attached in this equipment”</p> <p><i>Example in Japanese:</i> “この機器に同こん(梱)した指定の電源コード”</p> <p>If appliance coupler is used for connection to the mains and if the cord set is not provided within the package for the equipment, suitable information regarding to the cord set shall be described in the operating instruction</p> <p>Note Since the combination of appliance inlet with earthing pin and two-core cord set (without earthing conductor) is special, the cord set should be attached in the equipment and the operating <i>instruction should provide the information that the cord set is exclusively used with the equipment and not allowed to use with other equipment.</i></p>	Class II direct plug-in equipment.	N/A

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.14A	<p>Add the following new clause after 1.7.14.</p> <p>1.7.14A Marking for CLASS 0I EQUIPMENT For CLASS 0I EQUIPMENT, the following or equivalent instructions shall be marked.</p> <p>- the following instruction shall be marked on the mains plug or on the visible place of the main body</p> <p>“Provide an earthing connection”</p> <p><i>Example in Japanese:</i> “必ず接地接続を行ってください。”</p> <p>- the following instruction shall be marked on the visible place of the main body or written in the operating instructions:</p> <p>“Provide an earthing connection before the mains plug is connected to the mains. And, when disconnecting the earthing connection, be sure to disconnect after pulling out the mains plug from the mains.”</p> <p><i>Example in Japanese:</i> 接地接続は必ず、電源プラグを電源につなぐ前 また、接地接続を外す場合は、必ず電源プラグ</p>	Class II direct plug-in equipment.	N/A
1.7.14B	<p>Add the following new clause after 1.7.14A</p> <p>1.7.14B Protective earthing conductor used for CLASS 0I EQUIPMENT</p> <p>For CLASS 0I EQUIPMENT provided with independent main protective earthing terminal, where the cord for the protective earthing connection is not provided within the package for the equipment, the suitable information for the protective earthing connection shall be provided in the operating instruction. (See 2.6.3.2)</p>	Class II direct plug-in equipment.	N/A

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
2.1.1.1	<p>Replace item b) of 2.1.1.1 with the following.</p> <p>b) A test with the test finger, Figure 2A, which shall not contact parts described above when applied to openings in the ENCLOSURES after removal of parts that can be detached by an OPERATOR, including fuseholders, and with OPERATOR access doors and covers open. It is permitted to leave lamps in place for this test. Connectors that can be separated by an OPERATOR, other than those complying with JIS C 8303 or JIS C 8285 or IEC 60309 series or JIS C 8283 series or IEC 60320 series, shall also be tested during disconnection. But even if the connector does not comply with these standards, the one having equivalent to or better performance need not be tested during disconnection.</p> <p>Note 4 Connectors complying with Appendix 4 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is regarded to have equivalent to or better performance.</p>	Considered.	P
2.5	Replace "IEC 60730-1" with "JIS C 9730-1" (in item b)).	No such device used.	N/A
2.6.2	<p>Delete the following line.</p> <p>· the symbol , IEC 60417-5018 (2011-07);</p>		N/A
2.6.3.2	<p>Add the following after the first paragraph.</p> <p>However where the single core conductor is used for protective earthing lead or earthing cord for CLASS 01 EQUIPMENT, either of the following condition shall be met.</p> <ul style="list-style-type: none"> - Use of annealed copper wire with 1.6 mm diameter or corrosion-inhibiting metal wire having equivalent to or more strength and thickness. - Single core cord or single core cable with 1.25 mm² or more cross-sectional area 	Class II direct plug-in equipment.	N/A
2.6.3.5	<p>Add the following after the first paragraph.</p> <p>However this requirement does not apply to internal conductor of the cord set that is covered by the sheath of mains cord and is formed together with mains plug and appliance connector.</p>	Class II direct plug-in equipment.	N/A

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
2.6.4.2	<p>Replace the first paragraph with the following.</p> <p>Equipment required to have protective earthing shall have a main protective earthing terminal. For equipment with a DETACHABLE POWER SUPPLY CORD, the earthing terminal in the appliance inlet is regarded as the main protective earthing terminal. However, for CLASS 0I EQUIPMENT provided with the separate main protective earthing terminal other than appliance inlet, the separate main protective earthing terminal may be treated as mains protective earthing terminal.</p>	Class II direct plug-in equipment.	N/A
2.6.5.4	<p>Replace the first sentence with the following.</p> <p>Protective earthing connections of CLASS I EQUIPMENT shall make earlier and break later than the supply connections in each of the following:</p> <p>Add the following after last paragraph:</p> <p>Note For CLASS 0I EQUIPMENT, 1.7.14A is applied instead of this requirement.</p>	Class II direct plug-in equipment.	N/A
2.6.5.8A	<p>Add the following new clause after 2.6.5.8</p> <p>2.6.5.8A Earthing of CLASS 0I EQUIPMENT Plugs with a lead wire for earthing shall not be used for equipment having a rated voltage exceeding 150V.</p> <p>For plugs with a lead wire for earthing, the lead wire shall not be earthed by a clip.</p> <p>CLASS 0I EQUIPMENT shall be provided with an earthing terminal or lead wire for earthing in the external location where easily visible.</p>	Class II direct plug-in equipment.	N/A
2.7.6	<p>Replace "ISO 3864, No. 5036" with "6.2.4 of JIS S 0101".</p>		N/A
2.10.3.1	<p>Replace the 8th paragraph with the following</p> <p>The above minimum CLEARANCE for connectors do not apply to connectors that comply with JIS C 8285, IEC60309 series of standards, JIS C 8283 series of standards, IEC60320 series of standards, JIS C 8303, or even if it does not comply with the above standards but the one having equivalent to or better performance and dimension which comply with JIS C 8283 series of standards, JIS C 8303 or IEC 60309-2.</p> <p>Note Connectors complying with Appendix 4 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is regarded to have equivalent to or better performance.</p>		N/A

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.3.2 Table 2J	In Japan, the value of the main power supply transient voltage for the nominal ac main power supply voltage of 100 V is determined by applying the row of AC main power supply voltage 150 V.		P
2.10.4.3	<p>Replace the 6th paragraph with the following</p> <p>The above minimum CREEPAGE DISTANCE for connectors do not apply to connectors that comply with JIS C 8285, IEC60309 series of standards, JIS C 8283 series of standards, IEC60320 series of standards, JIS C 8303, or even if it does not comply with the above standards but the one having equivalent to or better performance and dimension which comply with JIS C 8283 series of standards, JIS C 8303 or IEC 60309-2.</p> <p>Note Connectors complying with Appendix 4 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is regarded to have equivalent to or better performance.</p>	No such device used.	N/A
2.10.9	Replace "1.4.5" in 3rd paragraph with "1.4.12".		N/A
3.2.3	<p>Add the following after the third paragraph.</p> <p>Table 3A applies when cables complying JIS C 3662 series of standards or JIS C 3663 series of standards are used. In case of other cables, cable entries shall be so designed that the cable could be fitted in a conduit.</p>		N/A
3.2.4	<p>Add the following as 4th dashed paragraph.</p> <p>- be so constructed that mechanical stress shall not transmit to the soldering part of inlet terminal during insertion or removal of the connector except that the body of the inlet is secured and is secured not only soldering.</p>		N/A

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
3.2.5.1	<p>Add the following after Note 3:</p> <p>Note 4 In Japan, mains cords having equivalent to or better electro-mechanical and fire safety performance as above and complying with Appendix 1 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance can be used.</p> <p>Replace the paragraph after Note 3 with the following.</p> <p>For equipment required to have protective earthing, a PROTECTIVE EARTHING CONDUCTOR shall be included in the MAINS SUPPLY cord except for CLASS 0I EQUIPMENT having separate protective earthing conductor from mains cord.</p> <p>Add the following after the second paragraph after Note 3:</p> <p>Note 5 For the cross-sectional area of mains cord described in Note 4, relevant Japanese wiring regulation can be applied.</p>		N/A
3.2.5A	<p>Add the following new clause after 3.2.5</p> <p>3.2.5A AC mains plug Mains plug for PLUGGABLE EQUIPMENT TYPE A shall comply with JIS C 8282-1 or equivalent to or better performance. Power supply cord set complying with JIS C 8286 is regarded to meet the requirements. Mains plug with fuse link for PLUGGABLE EQUIPMENT TYPE A shall comply with JIS C 8282-2-1 or equivalent to or better performance. Note Mains plug complying with Appendix 4 of the interpretation of Ministerial Ordinance on stipulating technical requirements for the Electrical Appliance is regarded to have equivalent to or better performance.</p>		N/A
3.3.4 Table 3D	<p>Add the following note to Table 3D:</p> <p>Note For cables other than those complying with JIS C 3662 series of standards or JIS C 3663 series of standards, the terminals shall be suitable for the size of the intended cables.</p>		N/A
3.3.7	<p>Add the following after the first sentence:</p> <p>This requirement is not applicable to the external earthing terminal of CLASS 0I EQUIPMENT.</p>	Class II direct plug-in equipment.	N/A

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
4.2.8	<p>Add the following after the first paragraph:</p> <p>Note Intrinsically protected picture tube is required to comply with JIS C 6965 in clause 18 of JIS C 6065. No intrinsically protected picture tube which is out of scope of JIS C 6965 is required to test according to sub-clause 18.2 of JIS C 6065.</p>		N/A
4.3.4	<p>Add the following after the first sentence:</p> <p>This requirement also applies to those connections in CLASS 0I EQUIPMENT, where CLEARANCE or CREEPAGE DISTANCES over BASIC INSULATION would be reduced to less than the values specified in 2.10.</p>		N/A
4.3.5	<p>Replace the first dashed paragraph with the following.</p> <p>Within a manufacturer's unit or system, plugs and sockets likely to be used by the OPERATOR or by a SERVICE PERSON shall not be employed in a manner likely to create a hazard due to misconnection. In particular, connectors complying with IEC 60320/JIS C 8283 series of standards or JIS C 8303 or JIS C 8358 shall not be used for SELV CIRCUITS or TNV CIRCUITS. Keying, location or, in the case of connectors accessible only to a SERVICE PERSON, clear markings are permitted to meet the requirement.</p>	The removable plug was not provided for testing together with equipment, the removable plug combined with equipment should be evaluated during national approval.	N/A
4.3.6	<p>Replace the 1st paragraph with the following</p> <p>DIRECT PLUG-IN EQUIPMENT shall not impose undue stress on the socket-outlet. The mains plug part shall comply with the standard for the relevant mains plug. (see 3.2.5A)</p>		N/A
4.4.2	<p>Replace the paragraph with the following:</p> <p>HOUSEHOLD AND HOME/OFFICE DOCUMENT/MEDIA SHREDDERS shall also comply with Annex JA.</p>		N/A
4.5.3	<p>Add the following note to footnote b) of Table 4B:</p> <p>NOTE In case no data for the material is available, Appendix 4, 1. (1). b. 3 of the Interpretation on the Ministerial Ordinance stipulating Technical Specifications for Electrical Appliances is regarded as maximum temperature limit of the material.</p>		N/A

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
5.1.3	<p>Add a note after the first paragraph as follows:</p> <p>Note – Attention should be drawn to that majority of three-phase power system in Japan is of delta connection, and therefore, in that case, test is conducted using the test circuit from IEC 60990, figure 13.</p>		N/A

IEC60950_1F ATTACHMENT 3																																							
Clause	Requirement + Test	Result - Remark	Verdict																																				
5.1.6	<p>Replace Table 5A. as follows</p> <table> <tr> <th>Type of equipment</th><th>Terminal A of measuring instrument connected to:</th><th>Maximum TOUCH CURRENT mA r.m.s. a</th><th>Maximum PROTECTIVE CONDUCT OR CURRENT</th></tr> <tr> <td>ALL equipment</td><td>Accessible parts and circuits not connected to protective earth b</td><td>0,25</td><td>-</td></tr> <tr> <td rowspan="2">HAND-HELD</td><td>Main protective earthing terminal of CLASS I EQUIPMENT</td><td>0,75</td><td>-</td></tr> <tr> <td>Main protective earthing terminal of CLASS 0 I EQUIPMENT</td><td>0,5</td><td>-</td></tr> <tr> <td rowspan="2">MOVABLE (other than HAND_HELD, but including TRANSPORTABLE EQUIPMENT)</td><td>Main protective earthing terminal of CLASS I EQUIPMENT</td><td>3,5</td><td>-</td></tr> <tr> <td>Main protective earthing terminal of CLASS 0 I EQUIPMENT</td><td>1.0</td><td>-</td></tr> <tr> <td rowspan="2">STATIONARY, PLUGGABLE TYPE A</td><td>Main protective earthing terminal of CLASS I EQUIPMENT</td><td>3,5</td><td>-</td></tr> <tr> <td>Main protective earthing terminal of CLASS 0 I EQUIPMENT</td><td>1,0</td><td>-</td></tr> <tr> <td rowspan="2">ALL other STATIONARY EQUIPMENT - not subject to the conditions of 5.1.7 - subject to the conditions of 5.1.7</td><td>Main protective earthing terminal of CLASS I EQUIPMENT</td><td>3.5 -</td><td>- 5 % of input current</td></tr> <tr> <td>Main protective earthing terminal of CLASS 0 I EQUIPMENT</td><td>1.0 -</td><td>- -</td></tr> </table> <p>a If peak values of TOUCH CURRENT are measured, the maximum values are obtained by multiplying the r.m.s.values in the table by 1,414. b Some unearthed accessible parts are covered in 1.5.6 and 1.5.7 and the requirements of 2.4 apply. These may be different from those in 5.1.6.</p>	Type of equipment	Terminal A of measuring instrument connected to:	Maximum TOUCH CURRENT mA r.m.s. a	Maximum PROTECTIVE CONDUCT OR CURRENT	ALL equipment	Accessible parts and circuits not connected to protective earth b	0,25	-	HAND-HELD	Main protective earthing terminal of CLASS I EQUIPMENT	0,75	-	Main protective earthing terminal of CLASS 0 I EQUIPMENT	0,5	-	MOVABLE (other than HAND_HELD, but including TRANSPORTABLE EQUIPMENT)	Main protective earthing terminal of CLASS I EQUIPMENT	3,5	-	Main protective earthing terminal of CLASS 0 I EQUIPMENT	1.0	-	STATIONARY, PLUGGABLE TYPE A	Main protective earthing terminal of CLASS I EQUIPMENT	3,5	-	Main protective earthing terminal of CLASS 0 I EQUIPMENT	1,0	-	ALL other STATIONARY EQUIPMENT - not subject to the conditions of 5.1.7 - subject to the conditions of 5.1.7	Main protective earthing terminal of CLASS I EQUIPMENT	3.5 -	- 5 % of input current	Main protective earthing terminal of CLASS 0 I EQUIPMENT	1.0 -	- -		P
Type of equipment	Terminal A of measuring instrument connected to:	Maximum TOUCH CURRENT mA r.m.s. a	Maximum PROTECTIVE CONDUCT OR CURRENT																																				
ALL equipment	Accessible parts and circuits not connected to protective earth b	0,25	-																																				
HAND-HELD	Main protective earthing terminal of CLASS I EQUIPMENT	0,75	-																																				
	Main protective earthing terminal of CLASS 0 I EQUIPMENT	0,5	-																																				
MOVABLE (other than HAND_HELD, but including TRANSPORTABLE EQUIPMENT)	Main protective earthing terminal of CLASS I EQUIPMENT	3,5	-																																				
	Main protective earthing terminal of CLASS 0 I EQUIPMENT	1.0	-																																				
STATIONARY, PLUGGABLE TYPE A	Main protective earthing terminal of CLASS I EQUIPMENT	3,5	-																																				
	Main protective earthing terminal of CLASS 0 I EQUIPMENT	1,0	-																																				
ALL other STATIONARY EQUIPMENT - not subject to the conditions of 5.1.7 - subject to the conditions of 5.1.7	Main protective earthing terminal of CLASS I EQUIPMENT	3.5 -	- 5 % of input current																																				
	Main protective earthing terminal of CLASS 0 I EQUIPMENT	1.0 -	- -																																				

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
Annex G	<p>Replace the paragraph before Table G.2 with the following</p> <p>The above minimum CLEARANCE for connectors do not apply to connectors that comply with JIS C 8285, IEC60309 series of standards, JIS C 8283 series of standards, IEC60320 series of standards, JIS C 8303, and 1.5.1 of this standard in which dimension is comply with JIS C 8283 series, JIS C 8303 or IEC 60309-2.</p>		N/A
Annex V V.1	Replace "3.1.2" in the first line of V.1 with "312" in the first line.		N/A
Annex W W.1	<p>Replace the third sentence in the first paragraph with the following:</p> <p>Floating circuits can exist in CLASS I EQUIPMENT, CLASS 0I EQUIPMENT and earthed circuits can exist in CLASS II EQUIPMENT.</p>		N/A
Annex BB	This annex is not applicable.		N/A
Annex CC CC.2	<p>Replace the third dashed paragraph with the following:</p> <p><i>- 10 000 cycles of turning enable on and off with the input connected to a capacitor rated 425 uF ± 10 uF and shorting the output;</i></p>		N/A
CC.3	<p>Add note at end of CC.3:</p> <p>Note: The fast blow fuse should be the one complying with JIS C 6575-2.</p>		N/A

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
CC.4	<p>Replace the 2nd dashed paragraph with the following:</p> <ul style="list-style-type: none"> - 10 000 cycles of turning enable on and off with a $100 \Omega \pm 5 \Omega$ resistor and a $425 \mu\text{F} \pm 10 \mu\text{F}$ capacitor in parallel with the output; <p>Replace the 4th dashed paragraph with the following:</p> <ul style="list-style-type: none"> - 10 000 cycles of turning enable on and off with the input connected to a capacitor rated $425 \mu\text{F} \pm 10 \mu\text{F}$ and shorting the output; <p>Replace the 5th dashed paragraph with the following:</p> <ul style="list-style-type: none"> -10 000 cycles of turning the input pin on and off with a capacitor rated $425 \mu\text{F} \pm 10 \mu\text{F}$ connected to the input supply while keeping enable active and shorting the output; <p>Replace the 6th dashed paragraph with the following:</p> <ul style="list-style-type: none"> -10 000 cycles of turning the input pin on and off with an ferrite-core inductor having $350 \text{ mH} \pm 10 \text{ mH}$ inductance at 1 kHz and less than 1Ω d.c. resistance connected to the input supply and return while keeping enable active and shorting the output; <p>Replace the 10th dashed paragraph with the following:</p> <ul style="list-style-type: none"> -3 cycles of exposing the device (not energized) to $70^\circ\text{C} \pm 2^\circ\text{C}$ for 24 h; followed by at least 1 h at room ambient; followed by at least 3 h at $-30^\circ\text{C} \pm 2^\circ\text{C}$; followed by 3 h at room ambient; <p>Replace the 11th dashed paragraph with the following:</p> <ul style="list-style-type: none"> -10 cycles of exposing the device (while energized) to $50^\circ\text{C} \pm 2^\circ\text{C}$ for 10 min; followed by 10 min at $0^\circ\text{C} \pm 2^\circ\text{C}$ with a 5 min period of transition from one state to the other; 		N/A

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
Annex EE	<p>Replace Annex EE with the following Annex JA.</p> <p style="text-align: center;">Annex JA (normative) Document shredding machines</p> <p>HOUSEHOLD AND HOME/OFFICE DOCUMENT/MEDIA SHREDDERS shall additionally comply with the requirements of this annex.</p> <p>JA.1 Markings and instructions</p> <p>The symbol  (JIS S 0101:2000, 6.2.1) and the following precautions for use shall be marked on readily visible part adjacent to document feed opening. The marking shall be clearly legible, permanent, and easily discernible;</p> <ul style="list-style-type: none"> - 子供が使用することによって、傷害などの危険が生ずる可能性があります。 ; (that use by an infants/children may cause a hazard of injury etc.) - 文書投入口に手を触れることによって、細断機に手を引っかかれます。 ; (that a hand can be drawn into the mechanical section for shredding when touching the document-slot) - 文書投入口に衣類が触れることによって、細断機に衣類が引っかかれます。 ; (that clothing can be drawn into the mechanical section for shredding when touching the document-slot) - 文書投入口に髪の毛が触れることによって、細断機に髪の毛が引っかかれます。 ; (that hairs can be drawn into the mechanical section for shredding when touching the document-slot) - in case of equipment incorporating a commutator motor, 可燃性ガスを噴射することによって引火又は爆発の危険が生ずる可能性があります。 (that equipment may catch fire or explode by spraying of flammable gas.) <p>JA.2 Inadvertent reactivation</p> <p>Any safety interlock that can be operated by means of the test finger, Figure JA.1, is considered to be likely to cause inadvertent</p>		N/A

IEC60950_1F ATTACHMENT 3			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>reactivation of the hazard.</p> <p>Compliance is checked by inspection and, where necessary, by a test with the test finger, Figure JA.1.</p> <p>JA.3 Disconnection from the mains supply Document shredding machines shall incorporate an isolating switch complying with sub-clause 3.4.2 as the device disconnecting the power of hazardous moving parts. For this switch, two-position (single-use) switch or multi-position (multifunction) switch (e.g., slide switch) may be used. If two-position switch, the positions for “ON” and “OFF” shall be indicated in accordance with sub-clause 1.7.8. If multi-position switch, the position for “OFF” shall be indicated in accordance with sub-clause 1.7.8 and other positions shall be indicated with proper terms or symbols.</p> <p>Compliance is checked by inspection.</p>		

IEC60950_1F ATTACHMENT 3

Clause	Requirement + Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

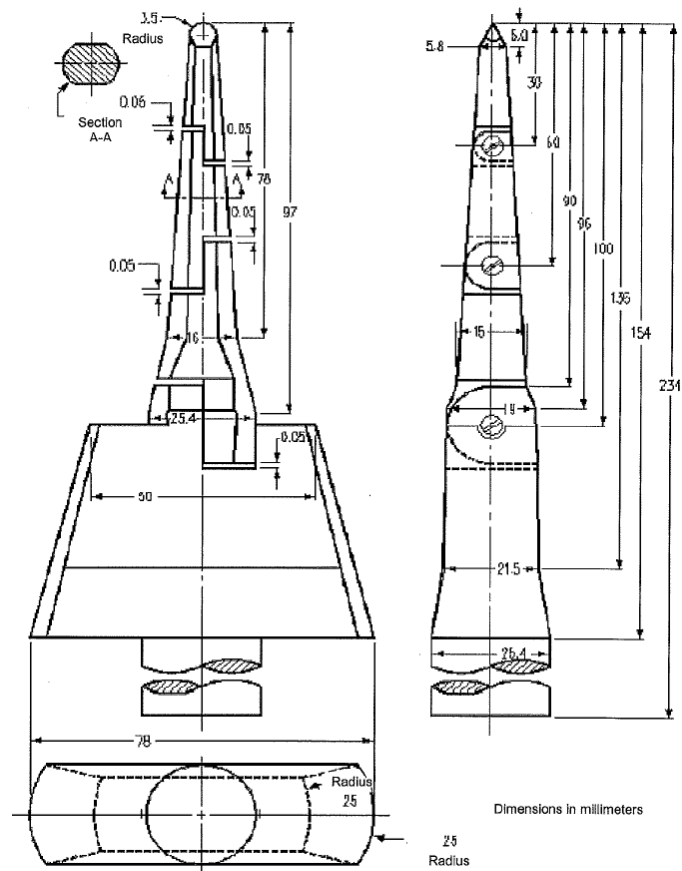
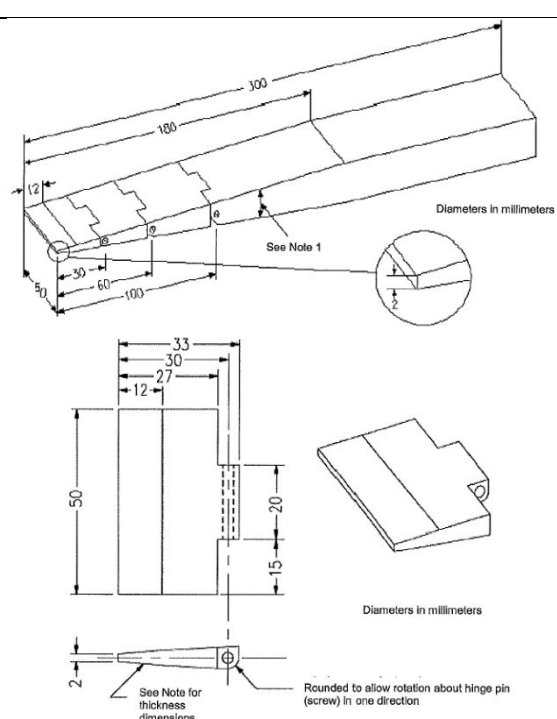


Figure JA.1 Test finger

N/A

IEC60950_1F ATTACHMENT 3

Clause	Requirement + Test	Result - Remark	Verdict
--------	--------------------	-----------------	---------

	<div><p>(Details of the tip of wedge)</p><table><tr><th>Distance from the tip (mm)</th><th>Thickness of probe (mm)</th></tr><tr><td>0</td><td>2</td></tr><tr><td>12</td><td>4</td></tr><tr><td>180</td><td>24</td></tr></table><p>Note 1 - The thickness of the probe varies linearly, with slope changes at the respective points shown in the table. Note 2 –The allowable dimensional tolerance of the probe is +/- 0.127 mm.</p><p>Figure JA.2 Wedge-probe</p></div>	Distance from the tip (mm)	Thickness of probe (mm)	0	2	12	4	180	24	N/A
Distance from the tip (mm)	Thickness of probe (mm)									
0	2									
12	4									
180	24									

*****End of Attachment 3*****