

IEC**IECEE**
CB
SCHEME

Ref. Certif. No.

JPJQA-6515M3/B2

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE)
CB SCHEMESYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC**CB TEST CERTIFICATE**
CERTIFICAT D'ESSAI OC**Product**
Produit

AC Adaptor

Name and address of the applicant
Nom et adresse du demandeurTamura Corporation
5-5-30 Chiyoda, Sakado, Saitama 350-0214

Japan

Name and address of the manufacturer
Nom et adresse du fabricantTamura Corporation
5-5-30 Chiyoda, Sakado, Saitama 350-0214

Japan

Name and address of the factory
Nom et adresse de l'usineTamura Electronics (Shenzhen) Co., Ltd.
No.1 Factory of Ban Tian Section, Ban Xue Gang Road, Ban
Tian Village, Bu Ji Town, Long Gang District, Shen Zhen City

China

Ratings and principal characteristics
Valeurs nominales et caractéristiques principalesInput: AC100-240V, 50/60Hz, 0.7A, Class II
Output: DC12V, 2.5A**Trademark (if any)**
Marque de fabrique (si elle existe)

Tamura

Model / Type Ref.
Ref. De type

DXW1225N

Additional information (if necessary)
Informations complémentaires (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***PUBLICATION****EDITION**

IEC

60950-1(ed.1)

350-80640

This CB Test Certificate is issued by the National Certification Body
*Ce Certificat d'essai OC est établi par l'Organisme National de Certification***JQA**JAPAN QUALITY ASSURANCE ORGANIZATION
21-25, Kinuta 1-chome, Setagaya-ku, Tokyo 157-8573 Japan

Original issued: 2007-08-07

This revised version substitutes JPJQA-6515M2/B2/350-70373, due to addition of alternate components and report correction.

Date: 2009-03-19

Signature:



H. Inoue

Replace pages to original test report, Ref. No. 350-70178/350-70314/350-80373
 Modification on the appliances: Addition of alternate components and Report correction.
 Page concerned in original report: 1-5, 36-38.

TEST REPORT**IEC 60950-1 and/or EN 60950-1****Information technology equipment – Safety –
Part 1: General requirements**

Report reference No. : <350-80640>

Tested by
 (printed name and signature) : Kazuo Ishizuka



Approved by
 (printed name and signature) : Masatomo Higuchi



Date of issue : March 19, 2009

Contents : Report: 8 pages

Testing Laboratory Name : Japan Quality Assurance Organization

Address : 1-21-25, Kinuta, Setagaya-ku, Tokyo 157-8573, Japan

Testing location : CBTL ☒ CCATL ☐ SMT ☐ TMP ☐

Address : Same as Testing Laboratory

Applicant's Name : Tamura Corporation

Address : 5-5-30 Chiyoda, Sakado, Saitama 350-0214 Japan

Test specification

Standard : IEC 60950-1:2001 (1st Edition)

Test procedure : CB-scheme

Procedure deviation : CA, US: National differences to IEC60950-1, 1st edition (2001) in
 CB Bulletin No. 112A.

JP: National differences to IEC60950, 3rd edition (1999) in CB
 Bulletin No. 112A, because of no national differences to IEC60950-
 1, 1st edition (2001).

CENELEC common modifications in accordance with CB Bulletin
 No. 112A

Non-standard test method : -

Test Report Form No. : IECEN60950_1B

TRF originator : SGS Fimko Ltd

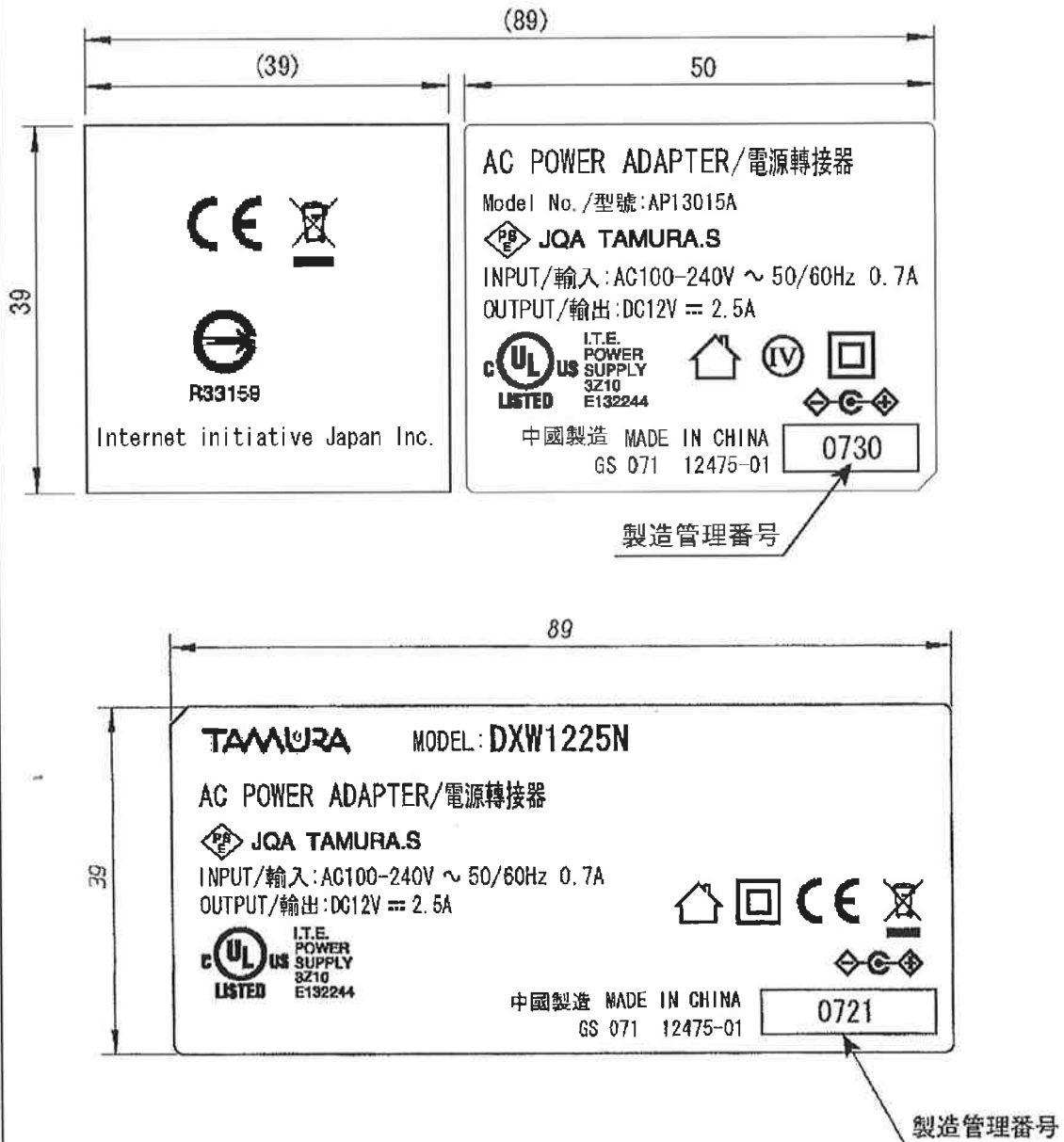
Master TRF : dated 2003-03

Copyright © 2003 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE),
 Geneva, Switzerland. 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.

Test item description: AC adaptor
Trademark: Internet Initiative Japan Inc. (for AP13015A)
 Tamura (for DXW1225N)
Manufacturer: Same as applicant
Model and/or type reference: AP13015A and DXW1225N
Serial number: --
Rating(s): Input: AC100-240V, 50/60Hz, 0.7A
 Output: DC12V, 2.5A

Copy of marking plate:



The above label is a draft of an artwork for marking plate pending approval by National Certification Bodies and it shall not be affixed to products prior to such an approval.

Summary of testing:**GENERAL**

1. This sample tested complies with the requirements of test specification.
2. The equipment is an AC Adaptor, which is intended to use with information technology equipment. (approx. size 57mm × 33mm × 121mm)
3. The equipment has been evaluated for use in Pollution Degree 2 environment.
4. Detachable power supply cord set was not checked. But it shall be approval type, which was evaluated by relevant IEC or other local standard.
5. DC output complied with CL 2.2 SELV circuit and CL 2.5 limited power source.

Normal operational condition

This equipment was operated at 12Vdc 2.5A with resistor load as normal operation.

Modification

This report covers following evaluation of the subject model for the previously certified equipment under CB report number 350-70178/350-70314/350-70373.

**Addition of alternate Appliance inlet, Fuse F1 and X-capacitor C1.
No tests were performed due to same rating components.**

**Table 1.5.1 manufacturer/ type of D1 and C2 were changed to "Various".
These changes cannot affect any safety aspects.**

Table 1.5.1 was corrected to "SEMKO" from "SMKO".

ENCLOSURE

None.

Particulars: test item vs. test requirements

Equipment mobility : Movable
 Operating condition : Continuous
 Mains supply tolerance (%) : +10%, -10%
 Tested for IT power systems : No
 IT testing, phase-phase voltage (V) : -
 Class of equipment : Class II
 Mass of equipment (kg) : 0.3
 Operating ambient temperature(°C) : 40
 Protection against ingress of water : IP0

Test case verdicts

Test case does not apply to the test object .. : N/A
 Test item does meet the requirement : Pass
 Test item does not meet the requirement : F(ail)

Testing

Date of receipt of test item : March 9, 2009
 Date(s) of performance of test : March 18, 2009

General remarks

"This report is not valid as a CB Test Report unless appended by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IEC 60950-1".

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

"(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.

General product information:

See GENERAL.

Factory's Name / Address:

Tamura Electronics (Shenzhen) Co., Ltd.
 No. 1 Factory of Ban Tian Section, Ban Xue Gang Road, Ban Tian Village, Bu Ji Town, Long Gang District, Shen Zhen City, China

IEC 60950-1 / EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict
1	GENERAL		Pass
1.5	Components		Pass
1.5.1	General	-	Pass
	Comply with IEC 60950 or relevant component standard	(see appended table 1.5.1)	Pass
1.5.2	Evaluation and testing of components	(see appended table 1.5.1)	Pass

IEC 60950-1 / EN 60950-1			
Clause	Requirement – Test	Result – Remark	Verdict

1.5.1	TABLE: list of critical components					Pass
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾	
Top / bottom Enclosure	GE Plastic	CH6410	PC+ABS, V-0, t=2.0mm	UL94, UL746	UL (QMFZ2)	
PCB	Various	Various	V-0, 130°C	UL94, UL796	UL (ZPMV2)	
Supply cord set	Various	Various	--	--	--	
Ex. For North America	Various	Various	Detachable, > 1.5m and < 4.5m long, rated 125V, 7A, Type SPT-2 or NISPT-2, 2×18AWG flexible cord, marked VW- 1;one end terminates in polarized or non- polarized parallel- blade non- grounding type attachment plug, Other end in appliance coupler.	--	UL, CSA	
Appliance inlet	Nicoon Industry Co., Ltd.	NC-133L-D- 1.6-K	AC250V, 2.5A, Standard sheet C8	IEC/EN60320-1	VDE, SEMKO UL (AXUT2)	
Alternate for appliance inlet	Solteam Electronics Co., Ltd.	ST-09	AC250V, 2.5A, Standard sheet C8	IEC/EN60320-1	VDE, UL (AXUT2)	
Alternate for appliance inlet	Inalways Corporation	0721-6-PP1	AC250V, 2.5A, Standard sheet C8	IEC/EN60320-1	NEMKO, UL (AXUT2)	
Alternate for appliance inlet	SMK Corporation	II24	AC250V, 2.5A, Standard sheet C8	IEC/EN60320-1	SEMKO, UL (AXUT2)	
Transformer/ T1	Tamura Corp.	TO-5831	Class B Core: Ferrite, 25 ×28×12mm	--	Tested in the unit.	
Insulation system	Tamura Corp.	SBI4 Class 130(B)	600V	UL1446	UL (OBJY2)	
TIW as sec. coil	Furukawa Electric Co., Ltd.	TEX-E	Class B	IEC/EN60950 UL2353	VDE, UL (OBJT2)	
Bobbin	Sumitomo Bakelite Co., Ltd.	PM-9820 or PM-9720	V-0, Phenolic, 150°C, t=0.75mm	UL94, UL746	UL (QMFZ2)	

IEC 60950-1 / EN 60950-1					
Clause	Requirement – Test		Result – Remark		Verdict
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾
Inductor/ L1	TOKYO PARTS	0R7A223F24Y NP	AC250V, 0.7A, Class E	--	Tested in the unit.
Bobbin	Chang Chun Plastics Co., Ltd.	4115	PBT, V-0, 120°C	UL94, UL746	UL (QMFZ2)
Alternate for L1	KORIN	HL-24R-E223	AC250V, 0.7A, Class E	--	Tested in the unit.
Bobbin	Chang Chun Plastics Co., Ltd.	4115	PBT, V-0, 120°C	UL94, UL746	UL (QMFZ2)
Fuse/ F1	LITTEL FUSE	215	T3.15AH, AC250V	IEC/EN60127 UL248	SEMKO, PSE UL (JDYX2)
Alternate for F1	NIPPON SEISEN	FJH	T3.15AH, AC250V	IEC/EN60127 UL248	SEMKO, PSE CSA UL (JDYX2)
Varistor/ VS1	Matsushita	ERZV10D471D (471U)	470V	IEC61051-1 IEC61051-2/ CECC42200	VDE, PSE, UL (XUHT2)
Bleeder resistor/ R1, R2	Various	Various	220kΩ, 1/8W	--	--
Silicone tube for IC2	NIKKAN INDUSTRIES CO., LTD.	S-693-600	VW-1, 200°C, 600V	--	UL (UZFT2)
Compound used in above tube	MOMENTIVE PERFORMANC E MATERIALS JAPAN L L C	TSE3941	V-1, 105°C	UL94, UL746	UL (QMFZ2)
Opto Coupler/ PHC1	NEC Compound Semiconductor Devices Ltd.	PS2561A-1-V-A (PS2561A-1)	Reinforced type, 100°C	IEC/EN60950 UL1577	BSI, CSA, UL (FPQU2)
X-capacitor / C1	Alcotronics (Nissei Corp)	R.46	AC275V, 0.33μF, X2, 40/100/56/C	IEC60384-14 EN132400 UL1414	ENEC-IMQ, CSA, UL (FOWX2)
Alternate for C1	Matsushita Electric Industries Co., Ltd.	ECQUL	AC275V, 0.33μF, X2, 40/100/21/C	IEC60384-14 EN132400 UL1414	VDE, SEMKO , CSA, UL (FOWX2)
Alternate for C1	OKAYA Electric Industries Co., Ltd.	LE334	AC275V, 0.33μF, X2, 55/100/56/C	IEC60384-14 EN132400 UL1414	SEMKO, UL (FOWX2, FOWX8)

IEC 60950-1 / EN 60950-1					
Clause	Requirement – Test		Result – Remark		Verdict
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾
Bridging capacitor/ C15	Murata Manufacturing	KX	AC250V, 470pF, Y1, 25/125/21/C	IEC60384-14 EN132400 UL1414	BSI, SEV, SEMKO, VDE, FIMKO, NEMKO, DEMKO, IMQ CSA, UL (FOWX2)
Alternate for C15	TDK Corporation	CD	AC250V, 470pF, Y1, 25/125/21/B	IEC60384-14 EN132400 UL1414	VDE, SEMKO, SEV, UL (FOWX2)
DC output cable	Chiang Yu Enterprise Inc	10922	AWG18, 1.2m, VW-1, 30V, 80°C	UL758	UL (AVLV2)
Marking and Labeling Systems	E-LIN ADHESIVE LABEL CO., LTD.	EL-15	Polyester film	--	UL (PGDQ2.MH1 6283)
D1, as reference only	Various	Various	600V, 1.5A	--	--
C2, as reference only	Various	Various	82µF, 400V	--	--
1) an asterisk indicates a mark which assures the agreed level of surveillance					