



Test Report issued under the responsibility of:



TEST REPORT

IEC 60950-1: 2005 (2nd Edition) and/or EN 60950-1:2006 Information technology equipment – Safety –

Part 1: General requirements

Report Reference No. CEPREI1207CB00291

CB/CCA Testing Laboratory....... China CEPREI Laboratory

Guangzhou, China

Applicant's name...... Delta Electronics, Inc.

Taiwan 320

Taiwan

Province 523308, P.R.China

Test specification:

X EN 60950-1:2006

Test procedure CB / CCA

Non-standard test method...... N/A

Test Report Form No. IECEN60950 1C

Test Report Form(s) Originator.....: SGS Fimko Ltd

Master TRF Dated 2007-06

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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 AC/DC MEDICAL ADAPTER

Trade Mark None

Manufacturer Same as applicant

Testing procedure and testing location:				
	CB/CCA Testing Laboratory:	China CEPREI Laboratory		
Testing location/ address:		No. 110 Dongguanzhuang Road, Tianhe District, 510610 Guangzhou, China		
	Associated CB Laboratory:	N/A		
Testing location/ address:		N/A		
	Tested by (name + signature):	He Yongzhong .	He Yongzhong	
	Approved by (+ signature):	Liu Qunxing .	He Yongzhong Lin Ounxing	
	Testing procedure: TMP	N/A		
	Tested by (name + signature):			
	Approved by (+ signature):			
Testing location/ address:		N/A		
	Testing procedure: WMT	N/A		
	Tested by (name + signature):			
	Witnessed by (+ signature):			
	Approved by (+ signature):			
Testing location/ address:		N/A		
	Testing procedure: SMT	N/A		
	Tested by (name + signature):			
	Approved by (+ signature):			
	Supervised by (+ signature):			
Testi	ng location/ address:	N/A		
	Testing procedure: RMT	N/A		
	Tested by (name + signature):			
	Approved by (+ signature):			
	Supervised by (+ signature):			
Testing location/ address:		N/A		

Summary of testing:

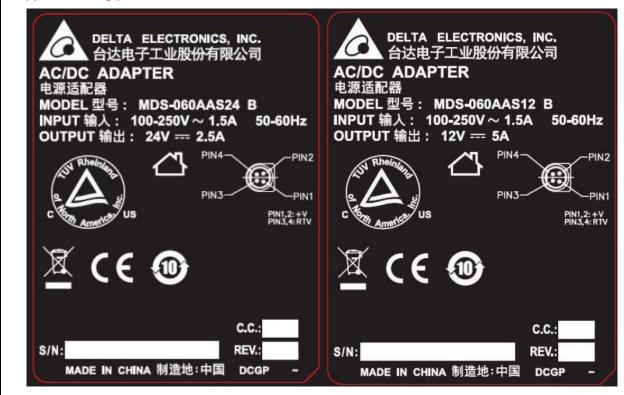
Tests performed (name of test and test clause):		Testing location:	
1.6.2	Input Current Test	China CEPREI Laboratory	
1.7.11	Durability of Marking Test	No. 110 Dongguanzhuang Road, Tianhe District	
2.1.1.1	Access to Energized Parts Test	510610 Guangzhou, China	
2.1.1.5	Energy Hazards Test		
2.2.2	SELV Limits under Normal Conditions		
2.2.3	SELV Limits under Fault Conditions		
2.6.3.4	Resistance of Earthing Conductors Measurement		
2.9.2	Humidity Conditioning Test		
2.10	Clearances and Creepage Distances Measurement		
4.1	Angle of 10 Test		
4.2.2	Steady Force Test, 10 N		
4.2.3	Steady Force Test, 30 N		
4.2.4	Steady Force Test, 250 N		
4.2.5	Impact Test		
4.2.7	Stress Relief Test		
4.5.2	Temperature Test		
4.5.5	Ball Pressure Test		
5.1	Touch Current Measurement		
5.2	Electric Strength Test		
5.3	Abnormal Operating and Fault Conditions Test		
ANNEX C	Transformers		

Summary of compliance with National Differences:

Group Differences

- IEC 60950-1, 2nd edition (2005):

Copy of marking plate



Test item particulars:				
Equipment mobility:				
Connection to the mains:	 □ pluggable equipment □ type A □ type B □ permanent connection □ detachable power supply cord □ non-detachable power supply cord □ not directly connected to the mains 			
Operating condition:	 □ continuous □ rated operating / resting time: 			
Access location:				
Over voltage category (OVC):	☐ OVC I ☐ OVC II ☐ OVC III ☐ OVC IV ☐ other:			
Mains supply tolerance (%) or absolute mains supply values:	+10% / -10%			
Tested for IT power systems:	☐ Yes ☑ No			
IT testing, phase-phase voltage (V):	N/A			
Class of equipment:				
Considered current rating (A)	16A			
Pollution degree (PD)	☐ PD 1 ☐ PD 2 ☐ PD 3			
IP protection class:	IPX0			
Altitude during operation (m)	5000m			
Altitude of test laboratory (m)	2000m			
Mass of equipment (kg):	0.36 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	2012.06.25			
Date(s) of performance of tests	2012.06.25 –2012.07.09			
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. "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.				
Note: This TRF includes EN Group Differences together with National Differences and Special National Conditions, if any. All Differences are located in the Appendix to the main body of this TRF.				
Throughout this report a point is used as the decimal separator.				

General product information:

The equipment models MDS-060AAS12 B and MDS-060AAS24 B are AC Adapter for used with information technology equipment.

All models are similar except for model designation, output rating.

The correction factors of clearance is 1.48, specified in table A. 2 of IEC 60664-1:1992+A1: 2000+A2: 2000 for altitude 5000m.

The product was submitted and tested for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 40° C.

The test samples are pre-production without serial number.

Factory(ies):

Delta Electronics Power (Dongguan) Co., Ltd.

Delta Industrial Estate, Shijie Town, Dongguan City, Guangdong Province 523308, P.R.China



DE 2-015870

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS 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

Note: When more than one factory, please report on page 2 Note: Lorsque il y plus d'une usine, veuillez utiliser la 2^{ense} page

Ratings and principal characteristics Valeurs nominales et caractéristiques principales

Trade mark (if any) Marque de fabrique (si elle existe)

Model/type Ref. Ref. de type

Additional information (if necessary may also be reported on page 2)
Les Information complémentaire (si nécessaire, peuvent être indiqués sur la 2ème page)

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 une partie de ce Certificat

AC ADAPTER

Delta Electronics, Inc. 3 Tungyuan Road, Chungli Industrial Zone, 32063 Taoyuan County, Taiwan

Delta Electronics, Inc. 3 Tungyuan Road, Chungli Industrial Zone, 32063 Taoyuan County, Taiwan

Additional Information page 2

AC 100-250V; 50-60Hz; 1.5-0.75A; Class I; output: DC 12V; 5A (for model MDS-060AAS12 B); DC 24V; 2.5A (for model MDS-060AAS24 B)

Delta or Trademark of Delta

MDS-060AAS12 B; MDS-060AAS24 B

Models differ in model name, output rating, and the rating of some components; for details see test report.

PUBLICATION

EDITION

Anamand LGA Products

TÜVRheinland

Tinzierungsstell

IEC 60601-1:2005 National differences see test report

11028682 001

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



Date: 15.06.2012

TÜV Rheinland LGA Products GmbH Tillystraße 2 · 90431 Nürnberg, Germany

Phone + 49 221 806-1371 Fax + 49 221 806-3935 Mail: cert-validity@de.tuv.com Web: www.tuv.com

Signature:

Dipl.-Ing. W. Hsu



DE 2-015870

- 1. Delta Electronics (Thailand) Public Co., Ltd. 909 Soi 9, Moo 4, Bangpoo Ind., Estate (E.P.Z.), Pattana 1 Rd. Tambol Phraksa Amphur Muang, Samutprakarn 10280, Thailand
- 3. Delta Electronics (Dongguan) Co.,
 Ltd.
 Delta Industrial Estate
 Shijie Town
 Dongguan City, Guangdong, China
- Delta Electronics (Jiang Su), Ltd. No. 1688, Jiangxing East Road Wujiang Economic Development Zone Wujiang City, 215200 Jiang Su, China

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

Dipl.-Ing. W. Hst. - artifizierungstell

Dat

Date: 15.06.2012