



Ref. Certif. No.

US/9807A/UL

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

Power Supply

Name and address of the applicant
Nom et adresse du demandeur

Condor D C Power Supplies Inc.
2311 Statham Pky
Oxnard, CA 93033, USA

Name and address of the manufacturer
Nom et adresse du fabricant

Condor D C Power Supplies Inc.
2311 Statham Pky
Oxnard, CA 93033, USA

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

1. Industrias S L S A de C V, Costa Rica #60
Col Cuahutemoc, Mexicali, Baja California N, Mexico
2. Shanghai GES Information Technology Co. Ltd
Zhangjiang Hi Tech Park, 668 Li Shi Zhen Rd, 201203 Shangha, China
3. AMC Electronics Mfy, Yang Tian Rd, Long Gang District
Shenzhen Guangdong, China

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

Input: 100-240 V ac, 0.3 A, 50/60 Hz
Output: 2.2 A or 11 W max., See CB Test Report for detailed output ratings.

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



Model / Type Ref.
Ref. de type

GSM11-XYZ-XXXG, where X represents the output voltage which may be any number from 3 thru 28; Y indicates the type of input connector used which may be the letters A, B, P or T; Z indicates the type of output connector used which may be the letters A through Z; Models may also be followed by -XXX, where -XXX is any number from 001 to 999, which is used to designate value added configurations that have no impact on safety. Suffix G indicates compliance to RoHS.

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

The CB Test Report comprises 6 enclosures. The CB Test Certificate was amended on April 4, 2006 to add factory, change model designation and modify national differences.

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

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. Inclusive of CENELEC Common Modifications. See Test Report for National Differences.

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

E116994-A23-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 Inc. / Certification Programs Office
333 Pfingsten Road, Northbrook, IL 60062-2096
United States of America
TEL INT* 1-847-272-8800, Ext. 43008 FAX INT* 1-847-272-9562
email: jolanta.m.wroblewska@us.ul.com

Date: Issued: 2005 October 24
Amended: 2006 April 4 (Am. 1)

Signature:

Jolanta M. Wroblewska

COVER PAGE FOR TEST REPORT

Product Category:	Power Supplies, Medical and Dental																
Product Category CCN:	QQHM2, QQHM8																
Test Procedure:	Component Recognition																
Product:	Power Supply																
Model/Type Reference:	GSM11-XYZG, where X represents the output voltage which may be any number from 3 thru 28; Y indicates the type of input connector used which may be the letters A, B, P or T; Z indicates the type of output connector used which may be the letters A through Z; and G indicates "lead-free". Models may also be followed by -XXX, where -XXX is any number from 001 to 999. The -XXX suffix is used to designate value added configurations that have no impact on safety.																
Rating(s):	<p>GSM10-12T-102 (lead-free)</p> <p>Input: 100-240 V ac, 0.3 A, 50/60 Hz</p> <p>Output: 2.2 A or 11 W maximum or see table for standard output voltage models.</p> <table style="margin-left: 40px;"> <thead> <tr> <th>MODEL</th> <th>OUTPUT</th> </tr> </thead> <tbody> <tr> <td>GSM11-3</td> <td>3.3 V dc 2.2 A</td> </tr> <tr> <td>GSM11-5</td> <td>5.1 V dc 2.2 A</td> </tr> <tr> <td>GSM11-12</td> <td>12 V dc 0.92A</td> </tr> <tr> <td>GSM10-12T-102</td> <td>12 V dc 0.92A</td> </tr> <tr> <td>GSM11-15</td> <td>15 V dc 0.74A</td> </tr> <tr> <td>GSM11-24</td> <td>24 V dc 0.46 A</td> </tr> <tr> <td>GSM11-28</td> <td>28 V dc 0.4 A</td> </tr> </tbody> </table>	MODEL	OUTPUT	GSM11-3	3.3 V dc 2.2 A	GSM11-5	5.1 V dc 2.2 A	GSM11-12	12 V dc 0.92A	GSM10-12T-102	12 V dc 0.92A	GSM11-15	15 V dc 0.74A	GSM11-24	24 V dc 0.46 A	GSM11-28	28 V dc 0.4 A
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Standards:	<p>UL 60601-1, First Edition (2003)</p> <p>CAN/CSA-C22.2 No.601.1-M90 with updates 1 and 2</p>																
Applicant Name and Address:	<p>CONDOR D C POWER SUPPLIES INC</p> <p>2311 STATHAM PKY</p> <p>OXNARD CA 93033</p>																
<p>This Report includes the following parts, in addition to this cover page:</p> <ol style="list-style-type: none"> 1. Specific Inspection Criteria 2. Specific Technical Criteria 3. Clause Verdicts 4. Critical Components 5. Test Results 6. National Differences 7. Enclosures 																	

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of Underwriters Laboratories Inc. ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

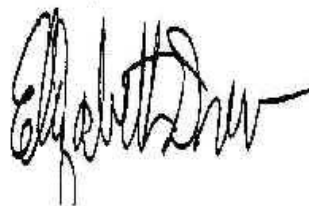
UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

Test Report By:



Michelle Lee
Senior Project Engineer
Underwriters Laboratories Inc.

Reviewed By:



Elizabeth Drew
Project Engineer
Underwriters Laboratories Inc.

SPECIFIC TECHNICAL CRITERIA

<p>TEST REPORT UL 60601-1 Medical Electrical Equipment Part 1: General requirements for safety</p>																	
Report Reference No	E116994-A23-UL-1																
Compiled by	Michelle Lee																
Reviewed by	Elizabeth Drew																
Date of issue	2005-10-21																
Standards	UL 60601-1, First Edition (2003) CAN/CSA-C22.2 No.601.1-M90 with updates 1 and 2																
Test procedure	Component Recognition																
Non-standard test method	N/A																
Test item description	Power Supply																
Trademark	CONDOR																
Model and/or type reference	GSM11-XYZG, where X represents the output voltage which may be any number from 3 thru 28; Y indicates the type of input connector used which may be the letters A, B, P or T; Z indicates the type of output connector used which may be the letters A through Z; and G indicates "lead-free". Models may also be followed by -XXX, where -XXX is any number from 001 to 999. The -XXX suffix is used to designate value added configurations that have no impact on safety.																
Rating(s)	<p>GSM10-12T-102 (lead-free)</p> <p>Input: 100-240 V ac, 0.3 A, 50/60 Hz</p> <p>Output: 2.2 A or 11 W maximum or see table for standard output voltage models.</p> <table style="margin-left: 40px;"> <thead> <tr> <th>MODEL</th> <th>OUTPUT</th> </tr> </thead> <tbody> <tr> <td>GSM11-3</td> <td>3.3 V dc 2.2 A</td> </tr> <tr> <td>GSM11-5</td> <td>5.1 V dc 2.2 A</td> </tr> <tr> <td>GSM11-12</td> <td>12 V dc 0.92A</td> </tr> <tr> <td>GSM10-12T-102</td> <td>12 V dc 0.92A</td> </tr> <tr> <td>GSM11-15</td> <td>15 V dc 0.74A</td> </tr> <tr> <td>GSM11-24</td> <td>24 V dc 0.46 A</td> </tr> <tr> <td>GSM11-28</td> <td>28 V dc 0.4 A</td> </tr> </tbody> </table>	MODEL	OUTPUT	GSM11-3	3.3 V dc 2.2 A	GSM11-5	5.1 V dc 2.2 A	GSM11-12	12 V dc 0.92A	GSM10-12T-102	12 V dc 0.92A	GSM11-15	15 V dc 0.74A	GSM11-24	24 V dc 0.46 A	GSM11-28	28 V dc 0.4 A
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GENERAL INFORMATION		
Test item particulars (see also clause 5):		
Classification of installation and use	Component to be installed in end-product	
Supply connection	Header or terminal block for internal wiring inside end-use equipment	
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) (acceptable only if a corresponding, less stringent national requirement is "Pass")	
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
General remarks:		
- "(see Enclosure #)" refers to additional information appended to the Test Report		
- "(see appended table)" refers to a table appended to the Test Report		
- Throughout the Test Report a point is used as the decimal separator		

General Product Information:	
CA1.0	Report Summary
CA1.1	N/A
CB1.0	Product Description
CB1.1	GSM11-XYZG Series and GSM10-12T-102 power supplies are switching type power supplies where enclosures are not provided. Maximum wattage output of these power supplies are depended on ambient temperature and type of cooling. See Installation Instructions in the Manual Enclosure.
CC1.0	Model Differences
CC1.1	The GSM11-XYZG Series are Class II power supplies and differ only in secondary circuits for the different outputs.

	The GSM10-12T-102 is identical to the GSM11-12.	
CD1.0	Additional Information	
CD1.1	The schematics for these models are kept in file at the CB Testing Laboratory mentioned in the first page of this test report, and can be provided by the applicant upon request by NCBs.	
CE1.0	Technical Considerations	
CE1.1	The product was investigated to the following additional standards:	EN 60601-1: 1990 + A1:1993 + A2:1995 + A13:1996, (except EMC limitations, EN 60601-1-2, Biocompatibility, EN 10993-1, Programmable Electronic Systems, IEC 60601-1-4)
CE1.2	The product was not investigated to the following standards or clauses:	Clause 36, Electromagnetic Compatibility (IEC 601-1-2), , Clause 48, Biocompatibility (ISO 10993-1), Clause 52.1, Programmable Electronic Systems (IEC 601-1-4),
CE1.3	The product is Classified only to the following hazards:	Shock, Fire, Casualty
CE1.4	The degree of protection against harmful ingress of water is:	Ordinary
CE1.6	The mode of operation is:	Continuous
CE1.7	Software is relied upon for meeting safety requirements related to mechanical, fire and shock:	No
CE1.8	The product is suitable for use in the presence of a flammable anesthetics mixture with air or oxygen or with nitrous oxide:	No
CF1.0	Engineering Conditions of Acceptability	
CF1.1	For use only in or with complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc. When installed in an end-product, consideration must be given to the following:	
CF2.0	This component has been judged on the basis of the required spacings in the First Edition of the Standards for Medical Electrical Equipment, Part 1: General Requirements for Safety, UL 60601-1 and CSA C22.2 No. 601-1, which covers the end use product for which the component is designed.	--
CF2.1	The component shall be installed in compliance with the enclosure, mounting, spacing, casualty markings and segregation requirements of the end-use application.	--

CF2.2	Consideration should be given to measuring the temperature on power electronic components and transformer windings when the power supply is installed in the end-use equipment.	--
CF2.3	The input/output connectors are not acceptable for field connections, they are only intended for connection to mating connectors of internal wiring inside the end-use machine.	--
CF2.4	The temperature test was performed in a raised ambient of 50 °C.	--
CF2.5	The isolation transformer, T2 complies with Class F (155 °C) limits.	--
CF2.6	Leakage current testing should be repeated in the end product application.	--
CF2.7	The power supplies were evaluated as reinforced insulation between primary and secondary.	--
CF2.8	This power supplies have been evaluated as Class II, continuous operation, ordinary equipment and has not been evaluated for use in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide.	--
CF2.9	The output circuits have not been evaluated for direct patient connection (Type B, BF or CF).	--
CF3	The end use product shall ensure that the power supply is used within its ratings.	--
CF3.1	The end product should ensure that the requirements related to accompanying documents, clause 6.8, are met.	--

Certificate no. 140322-02

Demko Certificate

Product: Power Supply
Manufacturer: Condor D C Power Supplies Inc
 2311 Statham Pky
 Oxnard CA 93033, USA
Production site: See appendix
Certified by request of: Condor D C Power Supplies Inc
 2311 Statham Pky
 Oxnard CA 93033, USA
Trademark: CONDOR
Model/Type ref.: See appendix
Rated current or power: 0.3 A
Rated voltage: 100-240 V ac, 50/60 Hz
Insulation Class:
Degree of protection:
Additional information: See appendix

Variants covered by this certificate are specified in the attached appendix.
 Detailed specification of the certified product(s) is listed in the appendix.

A sample of the product has been tested and found in conformity with EN 60601-1:1990+A1:93+A2:95+A13:96, as shown in the Test Report from Underwriters Laboratories with ref. No. E116994-A23-CB-1 dated 2005-10-21 and amendment 1 dated 2006-04-03

Furthermore, the product complies with the national deviations in Denmark.

Date of expiry: 2015-11-30

UL International Demko AIS is a body notified to the Member States and Commission of the European Communities according to the provisions of Article 8 of the Low Voltage Directive.

The Manufacturer complies with the Production Surveillance Requirements. Products included in this certificate are allowed to carry the registered approval marks of UL International Demko AIS, or for cables <DEMKO>. The name of UL International Demko AIS can be used in the marketing of the products. This Statement is only valid for products, which are identical to the tested product, and manufactured at the above-mentioned production site(s). UL International Demko AIS has to be informed in writing about any changes, in accordance with the "UL International Demko AIS Standard Terms and Conditions" for UL International Demko AIS services. The validity of this certificate is shortened if the EU legislation requires re-testing and re-certification, due to new standards or amendments coming into force, before the expiry date.

Herlev, 2006-04-26


 Karina Christiansen
 Certification Manager

UL International Demko A/S

Lyskaer 8, P.O. Box 514
 DK-2730 Herlev, Denmark
 Telephone: +45 44856565
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Appendix to Demko Certificate No. 140322-02

The Certificate covers the following:

GSM11-XYZ-XXXG, where X represents the output voltage which may be any number from 3 thru 28; Y indicates the type of input connector used which may be the letters A, B, P or T; Z indicates the type of output connector used which may be the letters A through Z; Models may also be followed by -XXX, where -XXX is any number from 001 to 999, which is used to designate value added configurations that have no impact on safety. Suffix G indicates compliance to RoHS. (RoHS compliance has not been evaluated by UL)

GSM10-12T-102 (RoHS compliant) (RoHS compliance has not been evaluated by UL)

Rating(s): Input: 100-240 V ac, 0.3 A, 50/60 Hz

Output: 2.2 A or 11 W maximum or see table for standard output voltage models.

MODEL OUTPUT

GSM11-3	3.3 V dc	2.2 A
GSM11-5	5.1 V dc	2.2 A
GSM11-12	12 V dc	0.92A
GSM10-12T-102	12 V dc	0.92A
GSM11-15	15 V dc	0.74A
GSM11-24	24 V dc	0.46 A
GSM11-28	28 V dc	0.4 A

Production Site:

AMC Electronics MFY
Yang Tian Rd
Long Gang District
Shenzhen Guangdong
China

Herlev, 2006-04-26


Karina Christiansen
Certification Manager

UL International Demko A/S

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Appendix to Demko Certificate No. 140322-02

Industrias S L S A De C V
Costa Rica #60
Col Cuahutemoc
Mexicali
Baja California N
Mexico

Shanghai GES Information
Technology Co Ltd
Zhangjiang Hi Tech Park
668 Li Shi Zhen Rd
201203 Shanghai
China

This certificate replaces the certificate No. 140322-01/A1, dated 2005-12-12.

UL International Demko A/S has issued a new certificate due to add factory, change model designation and modify national differences.

The certificate has been issued on the basis of CB certificate (CB Test certificate) No. US/9807A/UL, issued by Underwriters Laboratories, dated 2006-04-04.

Herlev, 2006-04-26


Karina Christiansen
Certification Manager

UL International Demko A/S

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