



Ref. Certif. No.

US/8708/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

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 Supply

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

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

Industrias SI, S.A. de C.V.
Costa Rica No. 60, Col. Cuahutemoc
Mexicali, B.C. Mexico

GPMP600-XX-YYY, Input: 100-240 Vac, 50/60 Hz, 8.5 A
Output: 24 V min., 36 V max., 25 A/27 A* max., 17 A/19 A* min., 600 W max. with integral fans or with 54 CFM customer supplied airflow through the unit.
GPMP700-48-YYY, Input: 100-240 Vac, 50/60 Hz, 9.5 A. Ambient: 50°C
Output: 48 Vdc, 14.6 A/15.6 A* peak, 700 W max. with integral fans or with 54 CFM customer supplied airflow through the unit. Ambient: 50°C
* Peak current is for a maximum duration of 60 seconds with a 10% duty cycle.

Not applicable

GPMP600-XX-YYY Series and GPMP700-48-YYY, where XX is any number from 24 to 36, which represents the output voltage rating and YYY represents front cover colors and mounting options not related to safety.

This report comprises 6 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. Inclusive of CENELEC Common Modifications. See Test Report for National Differences.

E116994-A16-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
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United States of America
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Date:
Issued: 2004 September 21

Signature:

Jolanta M. Wroblewska

Demko Certificate

Product: Power Supply
Manufacturer: Condor D.C. Power Supplies Inc
2311 Statham Pky, Oxnard, CA 93033, USA
Production site: Industrias S.L.S.A. de C.V.
Costa Rica #60, Col Cuahutemoc, Mexicali, Baja California N, Mexico
Certified by request of: Condor D.C. Power Supplies Inc
2311 Statham Pky, Oxnard, CA 93033, USA
Trademark:
Model/Type ref.: See appendix
Rated current or power: See appendix
Rated voltage: 100-240 Vac, 50/60 Hz
Insulation Class:
Degree of protection:
Additional information:

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-A16-CB-1.

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

Date of expiry: 2014-09-29

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 as well.

This certificate is only valid for products, which are identical to the certified 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.

Herlev, 2004-09-29


Karina Christiansen
Certification Manager

UL International Demko A/S

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Appendix to Demko Certificate No. 138231-01

The Certificate covers the following:

138231-01-0001; GPMP600-XX-YYY; 8.5 A;

Output: 24 V minimum, 36 V maximum, 25 A/27 A* maximum, 17 A/19 A* minimum, 600 W maximum with integral fans or with 54 CFM customer supplied airflow through the unit.

* Peak current is for a maximum duration of 60 seconds with a 10% duty cycle.

Type key: where XX is any number from 24 to 36, which represents the output voltage rating and YYY represents front cover colors and mounting options not related to safety.

138231-01-0002; GPMP700-48-YYY; 9.5A;

Output: 48 Vdc, 14.6 A/15.6 A* peak, 700 W maximum with integral fans or with 54 CFM customer supplied airflow through the unit.

* Peak current is for a maximum duration of 60 seconds with a 10% duty cycle.

Type key: YYY represents front cover colors and mounting options not related to safety

The certificate has been issued on the basis of CB certificate (CB Test certificate) No. US/8708/UL, issued by Underwriters Laboratories, dated 2004-09-21.

Herlev, 2004-09-29


Karina Christiansen
Certification Manager

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SPECIFIC TECHNICAL CRITERIA

<p>TEST REPORT UL2601-1 Medical Electrical Equipment Part 1: General requirements for safety</p>	
Report Reference No	E116994-A16-UL-1
Compiled by	Erik W. Sorensen
Reviewed by	Deborah Stubbs
Date of issue	2004-09-15
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	None
Model and/or type reference	GPMP600-XX-YYY Series and GPMP700-48-YYY, where XX is any number from 24 to 36, which represents the output voltage rating and YYY represents front cover colors and mounting options not related to safety.
Rating(s)	<p>GPMP600-XX-YYY Input: 100-240 Vac, 50/60 Hz, 8.5 A Output: 24 V minimum, 36 V maximum, 25 A/27 A* maximum, 17 A/19 A* minimum, 600 W maximum with integral fans or with 54 CFM customer supplied airflow through the unit.</p> <p>GPMP700-48-YYY Input: 100-240 Vac, 50/60 Hz, 9.5 A Output: 48 Vdc, 14.6 A/15.6 A* peak, 700 W maximum with integral fans or with 54 CFM customer supplied airflow through the unit.</p> <p>Ambient: 50°C</p> <p>* Peak current is for a maximum duration of 60 seconds with a 10% duty cycle.</p>

GENERAL INFORMATION		
Test item particulars (see also clause 5):		
Classification of installation and use	For building-in	
Supply connection	Terminal block	
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	The equipment (DC power supplies) covered by this report, are components, which are intended for use in end-product equipment used in a hospital or related health care facility, evaluated to standard Medical Equipment. The GPMP is designed for building-in to an end piece of equipment. It is designed with 2 end-mounted integral fans rated at 27 CFM each (54 CFM total). Rated Ambient is 50°C.
CC1.0	Model Differences
CC1.1	The GPMP600-XX-YYY and GPMP700-48-YYY models are identical except for transformer and minor component changes unrelated to safety.

CD1.0	Additional Information	
CD1.1	The schematics for these models are kept on 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 CBTL's.	
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, CAN/CSA C22.2 No. 601.1-M90 (R1997), CAN/CSA C22.2 No. 601.1S1-94, and CAN/CSA C22.2 No. 601.1B-98 (National Differences for Canada), (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,
CE1.4	The degree of protection against harmful ingress of water is:	Ordinary
CE1.5	The following accessories were investigated for use with the product:	None
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 power supply has been evaluated as Class I, 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. , ,	--

CF2.1	This component has been judged on the basis of the required spacings in the First Edition of the Standards for Medical Equipment, Part 1: General Requirements for Safety, UL60601-1 and CSA 22.2 No. 601.1, which covers the end use product for which the component is designed.	--
CF2.2	The component shall be installed in compliance with the enclosure, mounting, spacings, casualty markings and segregation requirements of the end-use application. , ,	--
CF2.3	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. , ,	--
CF2.4	The input/output are not acceptable for field connection, they are only intended for connection to mating connectors of internal wiring inside the end-use machine. the output circuits have not been evaluated for direct patient connection (Type B, BF or CF). , ,	--
CF2.5	The component should be properly bonded to the ground in the end-use equipment. , ,	--
CF2.6	The temperature test was performed in a raised ambient of 50°C.	--
CF2.7	Leakage Current testing should be repeated in the end-product application.	--
CF2.8	The main Power Transformer (T6) and Bias Transformer (T7), comply with Class F (155°C) limits.	--
CF2.9	Additional fusing should be considered in the end product since this power supply was tested with only one internal fuse, rated T 10A, 250 V.	--