

DESCRIPTION

PRODUCT COVERED:

USR/CNR - Component - Switching Power Supplies for Use in Information Technology Equipment, Models GPC50A, GPC50F.

ELECTRICAL RATINGS:

Input: 100-240 V ac, 50/60 Hz, 1.4 A.

Output: (50 Watts)

	Output 1	Output 2	Output 3
GPC50A	5 V dc, 5 A	12 V dc, 2 A	-12 V dc, 0.5 A
GPC50F	5 V dc, 5 A	12 V dc, 1.2 A	-12 V dc, 0.5 A

ENGINEERING CONSIDERATION (NOT FOR FIELD REPRESENTATIVE'S USE):

USR/CNR - Indicates investigation to U.S. and Canadian (Bi-National) Standard for safety of Information Technology Equipment, Including Electrical Business Equipment, CSA-C22.2 No. 60950-1-03 * UL 60950-1, First Edition.

This product is for use only in (or with) complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

The Abnormal Test data submitted by the client under the Client Data Program had not been performed with cheesecloth over the unit. The possibility of a Fire Hazard during abnormals was checked visually.

Schematics of the models can be found in the Tests Reference Section.

The equipment is considered: Class I (earthed), intended for use on a TN power system.

Conditions of Acceptability - When installed in the end-use equipment, considerations shall be given to the following:

1. **This component has been judged on the basis of the required spacings in the Standard for Information Technology Equipment, Sub-Clause 2.10, which would cover the component itself if submitted for unrestricted Listing.**
2. This power supply shall be installed in compliance with the enclosure, mounting, creepage, clearance, casualty, markings and segregation requirements of the end-use application.
3. The need for conducting leakage current tests is to be determined as part of the end-product evaluation.
4. This power supply has only been evaluated for use in a Pollution Degree 2 environment.
5. The input and output connectors have not been evaluated for field connections and are only intended for connection to mating connectors of internal wiring inside the end-use machine. The acceptability of these and the mating connectors relative to secureness, insulating materials, and temperature shall be considered.
6. **This power supply shall be properly bonded to earth in the end-use product as this unit was investigated for Class I construction as defined in CSA-C22.2 No. 60950-1-03 * UL 60950-1. The bonding terminal has not been investigated as a protective earthing terminal. An additional evaluation shall be made if the power supply is intended for use in other than Class I equipment.**
7. The secondary outputs of this power supply are considered SELV.
8. **This power supply was evaluated under the assumption that the power source is a TN-S system as defined by CSA-C22.2 No. 60950-1-03 * UL 60950-1.**
- *9. This power supply has been evaluated for use in a 50°C ambient. An additional evaluation should be made if the power supply is intended to be used in an ambient greater than 50°C.
10. The end use product shall ensure that a fuse replacement warning for the Primary Fuse is provided.
11. **All power supplies comply with the Limited Power Source requirement in Clause 2.5 of CSA-C22.2 No. 60950-1-03 * UL 60950-1.**

CONSTRUCTION DETAILS:

Internal Wiring - See Section General.

Printed Wiring Boards - See Section General. The general appearance of the foil pattern shall not change from that detailed in ILL. 2.

Insulating Tubing/Sleeving - See Section General.

Nameplate Marking - Recognized Company's name, model number, and (optional) electrical ratings.

Marking is located on the equipment in an area where tools are not necessary for gaining access to the marking and the part on which the marking is located is not likely to be discarded or lost.

Installation Instructions - Each model is provided with installation instructions as shown in ILL. 1.

* General - The general design shape and arrangement shall be as illustrated, except where specifically described.

Model Differences - Model GPC50A and GPC50F are the same, except output No. 2 has a different current rating.



Certificate of Compliance

Certificate Number: LR 46516-144C

Revision: LR 46516-213C

Date Issued: May 5, 1995

Issued To: Condor D.C. Power Supplies
2311 Statham Pkwy.
Oxnard, CA 93033
USA

The products listed below are eligible to bear the CSA Mark.

Issued By: William Giesbrecht, ASCT.
Vancouver, BC Canada

Signature

CLASS

5311 03 - POWER SUPPLIES - Component Type

PRODUCTS

Component Type Power Supplies for use with Information Technology Equipment, Including Electrical Business Equipment where the suitability of the combination is to be determined by the Canadian Standards Association.

Models GPC50A, GPC50F

APPLICABLE REQUIREMENTS

- | | | |
|------------------------|---|--|
| CAN/CSA-C22.2 No 0-M91 | - | General Requirements - Canadian Electrical Code, Part II |
| 0.4-M1982 | - | Bonding and Grounding of Electrical Equipment (Protective Grounding) |
| 234-M90 | - | Safety of Component Power Supplies |

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CERTIFICATION REPORT

13799 Commerce Parkway, Richmond (Vancouver), British Columbia, Canada V6V 2N9

REPORT NO: LR 46516-144C

Edition 1: September 22, 1992; Application No LR 46516-144C - Pacific Region
Issued by William Giesbrecht, Technologist
Reviewed by William J. Hegel, Sr. Eng'g Technologist

Edition 2: May 5, 1995; Application No LR 46516-213C - Pacific Region
Issued by William Giesbrecht, AScT.

Pages Replaced: All (Report Updated and Re-issued)

Contents: Pages 1 to 3
Attachment Condor Report No 116 Rev. B
(Pages 1 to 6)
(Figure 1)
(Illustrations 1 to 4)

SUBJECT

CLASS 5311 03 - POWER SUPPLIES - Component Type

Component type power supplies intended for use with Information Technology Equipment Including Electrical Business Equipment, where the suitability of the combination is to be determined by the Canadian Standards Association.

Models GPC50A, GPC50F, input rated 100-240 V (continuous), 47-63 Hz, 1.4 A; dc outputs rated overall level 3, individually rated maximum continuous output power 50 W at a maximum ambient temperature of 50°C as follows:

Model GPC50A, outputs +5/+12/-12 V dc, 5/2/0.5 A

Model GPC50F, outputs +5/+12/-12 V dc, 5/1.2/0.5 A

Conditions of Acceptability: These units are considered to operate under the conditions of:

- (i) **Pollution Degree 2:** Not sealed, not subject to dust, dirt or condensation.
- (ii) **Equipment Mobility:** Component for building-in.
- (iii) **Class of Equipment:** Class I equipment (grounded).
- (iv) **Connection to the Supply:** Component for building-in, intended for use on a TN-S power system.

THE STANDARD C22.2 NO 234 DESIGN MANUAL (ISSUED WITH LR 46516-110C) IS AN INTEGRAL PART OF THIS REPORT.

CERTIFICATE

No. B 05 05 14549 256



Holder of Certificate: **Condor DC Power Supplies, Inc.**
 2311 Statham Parkway
 Oxnard, CA 93033
 USA

Production Facility(ies): 16784, 52962

Certification Mark:



Product: **Switching power supply
 AC/DC Switching Power Supply**

Model(s): **GPC50X (Where X is either A or F)**

Parameters:

Rated Input Voltage:	100 - 240 V AC
Rated Frequency:	50 / 60 Hz
Rated Input Current:	1.4 A
Rated Output Voltage:	-12 V DC, +12 V DC, 5 V DC
Rated Output Current:	0.5 A, 2 A, 5 A
Protection Class:	I

Tested according to: EN 60950-1/A11:2004

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. See also notes overleaf.

Test report no.: SI500149-113

William Al Southard

Date, 2005-06-10

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206046

Aufbauübersicht für Elektrogeräte und Maschinen

Data form for electrical equipment and machinery



PRODUCT SERVICE

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Auftraggeber / Applicant:	Condor DC Power Supplies, Inc., 2311 Statham Pkwy, Oxnard, CA 93033, USA		
Fertigungsstätte / Production facility:	(16784) Industrias S.L., S.A. De d.v., Costa Rica No. 60, Col. Cuauhtemoc, Mexicali, B.C. Mexico		
	(52962) Shanghai GES Information Technology Co. Ltd., No. 668 Li Shi Zhen Rd., Shanghai Zhangjiang Hi-Tech Park, China		
Geräteart / Type of equipment:	AC/DC Switching Power Supply		
Typenbezeichnung / Type/model:	GPC50X. Where X is either A or F.		
Seriennr. / Serial no.:	None		
Nennspannung / Frequenz / Rated voltage/frequency:	100-240 V ac, 50/60 Hz		
Nennaufnahme / Nennstrom / Rated input power/current:	1.4 A		
Anschlußdaten-Hydraulik / Connection to hydraulic power:	N/A		
Anschlußdaten-Pneumatik / Connection to pneumatic power:	N/A		
Gewicht / weight:	0.34 kg		
Lärmemission / noise emission (dB A):	N/A		
Ausführung / Construction:	Ortsfest	Stationary	<input type="checkbox"/>
	Ortsveränderlich	Portable	<input type="checkbox"/>
	Handgerät	Hand-held	<input type="checkbox"/>
	Einbaugerät	Open-frame	<input checked="" type="checkbox"/>
Schutzklasse / Protection class:	Schutzklasse I:	Schutzleiteranschluß	PE-connection <input checked="" type="checkbox"/>
	Schutzklasse II:	Schutzisoliert	Double insulation <input type="checkbox"/>
	Schutzklasse III:	Schutzkleinspannung / interne Stromversorgung	SELV/internally powered <input type="checkbox"/>
Schutzart / Degree of protection against liquids (IP):	X0		<input checked="" type="checkbox"/>
Anschlußart / Supply connection:	Feste Anschlußleitung	Non detachable cord	<input type="checkbox"/>
	Fester Anschluß	Permanent connection	<input type="checkbox"/>
	Gerätesteckvorrichtung	Appliance inlet	<input type="checkbox"/>
Netzbetriebsart / Rated operation:	Dauerbetrieb	Continuous operation	<input checked="" type="checkbox"/>
	Aussetzbetrieb	Intermittent operation	<input type="checkbox"/>
	Kurzzeitbetrieb	Short time operation	<input type="checkbox"/>
Material:	a) Gehäuse / Enclosure: Aluminum chassis and cover		
	b) Leiterplatten / p.c.b.: Glass epoxy rated V-0, 130 °C		
Zusätzliche Angaben für Laser, Klassifizierung nach EN 60825 / Additional information for Laser equipment, classification according to EN 60825			
Typ / Type:			
Klasse / Class:			
Wellenlänge / Wavelength:			

Prüfbericht Nr. / Report No.: SI500149-113

Ort / Place:
TÜV PS, San Diego, CA USA

Datum / Date: 2006-09-20

Projektleiter / Project manager:
Eric Davis

Stempel und Unterschrift /

E. Davis



Aufbauübersicht für Elektrogeräte und Maschinen

Data form for electrical equipment and machinery



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Sicherheitsrelevante Bauteile: (Schalter, Temperaturregler, Heizkörper, Stecker, Fassungen, Leitungen, Kondensatoren, Motoren und sonstige Wicklungen z.B. Transformatoren, Magnetspulen)
(Not-Aus Geräte, 2-Handsteuerungen, Verriegelungsschalter, Sicherheits-Lichtschranken, Sicherheitsventile, Programmierbare Steuerungen-SPS, hydraulische Steuerungen, pneumatische Steuerungen)
 Safety relevant components: (switch, temperature regulator, heating element, plug, socket, wiring, capacitor, motors and other components with windings e.g. transformers, coils)
 (emergency off devices, 2-hand-control-devices, interlock switches, safety light barriers, safety valves, programmable electronic controllers - PLC, hydraulic controllers, pneumatic controllers.....)

Bauteil/ Kind of component	Hersteller/ Manufacturer	Angaben über Typ, Stromstärke, Leistung, Transformatorspezifikationsnummer, Isolationsklasse/ Information about type, current, power, transformer specification number, insulating class	Prüfzeichen von Test mark from (VDE, BSI, UL etc. / Standard)
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object/part No.	manufacturer/ trademark	type/model	technical data	Standard	mark(s) of conformity ¹⁾
Inductor (T2)	Condor	32333	Class F (155°C)		Evaluated during investigation
Power Transformer (T3)	Condor	32533 (GPC50A) 33380 (GPC50F)	Class F (155°C)		Evaluated during investigation
¹⁾ An asterisk indicates a mark which assures the agreed level of surveillance					

Prüfbericht Nr. / Report No.: SI500149-113

Projektleiter / Project manager:
Eric Davis

Ort / Place:
TÜV PS, San Diego, CA USA

Stempel und Unterschrift /

Datum / Date: 2005-05-20



Aufbauübersicht für Elektrogeräte und Maschinen

Data form for electrical equipment and machinery



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Sicherheitsrelevante Bauteile: (Schalter, Temperaturregler, Heizkörper, Stecker, Fassungen, Leitungen, Kondensatoren, Motoren und sonstige Wicklungen z.B. Transformatoren, Magnetspulen)
(Not-Aus Geräte, 2-Handsteuerungen, Verriegelungsschalter, Sicherheits-Lichtschranken, Sicherheitsventile, Programmierbare Steuerungen-SPS, hydraulische Steuerungen, pneumatische Steuerungen)
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object/part No.	manufacturer/ trademark	type/model	technical data	Standard	mark(s) of conformity ¹⁾
Connector (primary) (J1)	Molex 26-60-4030	26-60-4030	5 A, 250 VAC	UL94V-0	UL, CSA
Fuse (F1)	Littelfuse Buss Or certified equiv.	235002 GMA-2	250 V, 2 A, Fast Blow	UL1459	UL, CSA
Thermistor (RT1)	Amathern or equiv	SL 08 10002	NTC, 10 Ohms, 2 A		
Capacitor, X2 type (C1)	Vishay or certified equiv.	F1772-447-2004	275 V, 0.47 uF	UL E100682	UL, CSA, VDE
Capacitor, X2 type (C2)	Vishay or certified equiv.	F1772-410-2004	275 V, 0.1 uF	UL E100682	UL, CSA, VDE
Capacitor, Y2 type (C3,C4) (Singles and Multi Output)	Vishay Murata Or certified equiv.	WY Series DE Series	250 V, 4700 pF	UL810, IEC60384-14	UL, CSA, FI
Diode, Bridge type (CR1)	Vishay Diodes Inc. TSC	3N257or2KBP06 M KBP206G KBP205G	600V, 2A		UL
Optical Isolator (U2)	Fairchild or certified equiv	CNY17-3.300	5300 VAC isolation	UL1577, IEC60747-5, VDE884	UL, CSA, VDE
Inductor (T1)	Condor	33382	Class F (155°C)		Evaluated during investigation

Prüfbericht Nr. /Report No.: SI500149-113

Projektleiter / Project manager:
Eric Davis

Ort / Place:

TÜV PS, San Diego, CA USA

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Datum / Date: 2005-05-20

