

D E S C R I P T I O N

PRODUCT COVERED:

Component - Switching Power Supplies for Use in Information Technology Equipment, Models GPx225-5, GPx225-12, GPx225-15, GPx225-24 and GPx225-28, where X is M or C.

ELECTRICAL RATINGS:

Input: 100-240 V ac, 47-63 Hz, 5.5 A.

Output:

Model	Volts	Maximum Output Amps and Watts		
		Convection Cooling		Forced Air Cooling (min 26 cfm) With and/without cover
		Without Cover	With Cover	
GPx225-5	5	34 A, 170 W	30 A, 150 W	45 A, 225 W
GPx225-12	12	15.8 A, 190 W	15 A, 180 W	19 A, 225 W
GPx225-15	15	12.7 A, 190 W	12 A, 180 W	15 A, 225 W
GPx225-24	24	8.3 A, 200 W	7.9 A, 190 W	9.4 A, 225 W
GPx225-28	28	7.1 A, 200 W	6.8 A, 190 W	8.0 A, 225 W

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

This product was investigated under the Standard for Information Technology Equipment, UL 1950, First Edition, dated March 15, 1989.

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 abnormal tests 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 2.9, 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 UL 1950. 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 UL 1950.
9. This power supply has been evaluated for use in a 25°C, and a 50°C ambient. The end use product shall ensure that the airflow/power ratings Listed in the electrical ratings output table are not exceeded. 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.



CSA INTERNATIONAL

Certificate of Compliance

Certificate Number: LR 46516-143C

Revision: LR 46516-305C

Date Issued: July 13, 1999

Issued to: **Condor D.C. Power Supplies Inc.**
2311 Statham Parkway
Oxnard, CA 93033
USA

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



Issued by: Shane Stevenson, AScT.

Signature:

PRODUCTS

5311 03 - POWER SUPPLIES - Component Type

Component power supplies for use with Information Processing and Business Equipment, where the suitability of the combination is to be determined by the Canadian Standards Association.

Model GPC225-5 and GPM225-5, (Level 5), input rated 100-240 V (continuous), 47-63 Hz, 5.5 A; dc output rated 5 V/45 A; 225 W with 26 cfm airflow, with or without cover; 170 W with convection cooling, 150 W with cover.

Model GPC225-12 and GPM225-12, (Level 5), input rated 100-240 V (continuous), 47-63 Hz, 5.5 A; dc output rated 12 V/19 A; 225 W with 26 cfm airflow, with or without cover; 190 W with convection cooling, 180 W with cover.

Model GPC225-15 and GPM225-15, (Level 5), input rated 100-240 V (continuous), 47-63 Hz, 5.5 A; dc output rated 15 V/15 A; 225 W with 26 cfm airflow, with or without cover; 190 W with convection cooling, 180 W with cover.



Certificate No: LR 46516-143C

Date: July 13, 1999

CSA INTERNATIONAL

Revision: LR 46516-305C

Model MSP1676, (Level 5), input rated 100-240 V (continuous), 47-63 Hz, 5.5 A; dc output rated 16.5 V/13.6 A; 225 W with 26 cfm airflow, with or without cover; 190 W with convection cooling, 180 W with cover.

Model GPC225-24 and GPM225-24, (Level 5), input rated 100-240 V (continuous), 47-63 Hz, 5.5 A; dc output rated 24 V/9.4 A; 225 W with 26 cfm airflow, with or without cover; 200 W with convection cooling, 190 W with cover.

Model GPC225-28 and GPM225-28, (Level 5), input rated 100-240 V (continuous), 47-63 Hz, 5.5 A; dc output rated 28 V/8 A; 225 W with 26 cfm airflow, with or without cover; 200 W with convection cooling, 190 W with cover.

Notes:

1. Maximum ambient temperature for continuous output power specified is 50°C.
2. Model numbers may be provided with suffix -C, denoting the optional cover.

APPLICABLE REQUIREMENTS

CAN/CSA C22.2 No. 234-M90 - Safety of Component Power Supplies



Product Service

CERTIFICATE

No. B 06 06 59743 006

Holder of Certificate: SL Power Electronics, Corp.

6050 King Drive Bldg A
Ventura CA 93003
USA

Production Facility(ies): 16784, 52962

Certification Mark:



Product: Switching power supply unit
(AC/DC Switching Power Supply)

Model(s): GPC225-x Series
(For further model information please see attachment)

Parameters:

Rated Input Voltage:	100 - 240 V ac
Rated Frequency:	50 / 60 Hz
Rated Input Current:	5.5 A max.
Protection Class:	I
Ta:	50°C
Rated Outputs:	Please see attachment for details.

Please see attachment for additional information, and Conditions of Acceptability.

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

The product was tested on a voluntary basis and complies with the following essential requirements. The certification mark shown above can be affixed on the product. The certification mark must not be altered in any way. See also notes overleaf.

Test report no.: 095-602107-000

Date, 2006-07-06

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Product Service

**ATTACHMENT TO CERTIFICATE NO. B 06 06 59743 006
FOR SL POWER ELECTRONICS, CORP.**

**GPC225-x SERIES
AC/DC SWITCHING POWER SUPPLIES**

These AC/DC Switching Power Supplies are components, which are intended for use in Information Technology Equipment.

The GPC225-x Series uses x to represent the output voltage, which may be the number 5, 12, 15, 24, or 28. All base numbers may or may not be followed by suffix -C, -XXX and / or G, where:

-C suffix indicates optional cover is provided;

-XXX suffixes may be any number from 001 thru 999 used for value added configurations that have no impact on safety;

G suffix indicates compliance to RoHS.

Model	Volts	MAXIMUM OUTPUT AMPERES AND WATTS			
		CONVECTION COOLING		FORCED AIR COOLING (1)	
		Without Cover	With Cover	With & Without Cover	
GPC225-5	5	34.0 A 170 W	30.0 A 150 W	45.0 A	225 W
GPC225-12	12	15.8 A 190 W	15.0 A 180 W	19.0 A	225 W
GPC225-15	15	12.7 A 190 W	12.0 A 180 W	15.0 A	225 W
GPC225-24	24	8.3 A 200 W	7.9 A 190 W	9.4 A	225 W
GPC225-28	28	7.1 A 200 W	6.8 A 190 W	8.0 A	225 W

Notes:

1. Minimum airflow for forced air-cooling is 26 CFM.
2. Maximum ambient temperature for continuous output power specified above is 50 °C.
3. Storage: -40 to +85 °C. Units should be allowed to warm-up under non-condensing conditions before application of power.
4. Maximum Relative Humidity 96 %, no condensation.

CONDITIONS OF ACCEPTABILITY:

When installed in the end use equipment, all the requirements of the referenced standards must be met. The following are among the considerations to be made:

The following must be evaluated at end use:

- 1) Fire and mechanical enclosure must be provided.
- 2) A reliable ground (Protective Earth) connection.
- 3) Unless otherwise stated, maximum rated power for all models: 225 W.
- 4) Maximum ambient operating temperature: 50 °C