DESCRIPTION

PRODUCT COVERED:

USR - Switching Power Supply, Model SP1683 and Model GLC110 followed by suffixes -12, -15, -24, -212, -215, or -524, may or may not be followed by -L or -LC and/or –XXX, where XXX may be any number from 001 thru 999.

ELECTRICAL RATINGS:

Input: 100-240 V ac, 50/60 Hz, 3.1 A
Outputs: Maximum output power is 75 W with convection cooling; 110 W with airflow specified below.

MODEL	Output	0 CFM 26 CFM 75 Watts Max Volts	110 Watts Max Amps	Amps
GLC110-12	#1	12	6.3	9.1
GLC110-15	#1	15	5.0	7.3
GLC110-24	#1	24	3.2	4.6
GLC110-212	#1	+12	6.3	9.1
	#2	-12	2.5	3.0
GLC110-215	#1	+15	6.3	7.3
	#2	–15	2.5	3.0
GLC110-524	#1	+24	3.2	4.6
	#2	+5	1.5	2.0
SP1683	**#1**	**12**	**6.3**	**9.1**

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

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

USR/CNR indicates investigation to the U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment – Safety – Part 1: General Requirements, CSA C22.2 No. 60950-1-03 * UL 60950-1, First Edition.

The equipment is: For building in, Class I (earthed), for use on a TN power system.

Conditions of Acceptability - When installed in the end-use equipment, the following are among the considerations to be made:

1. **This component has been judged on the basis of the required spacings in the Standard for Information Technology Equipment – Safety – Part 1: General Requirements, CSA C22.2 No. 60950-1-03 * UL 60950-1, First Edition, which would cover the component itself if submitted for unrestricted listing.**

2. All secondary output circuits are SELV and are not hazardous energy levels.

3. The terminals and connectors have not been evaluated for field wiring.

4. **The power supply shall be properly bonded to the main protective earthing termination in the end product as this unit was investigated for Class I construction as defined in UL 60950-1. An additional evaluation shall be made if the power supply is intended for use in other than Class I equipment.**

5. Bonding terminals provided on this equipment have not been evaluated as protective earthing terminals.

6. Magnetic device transformer T3 employs an OBJY2 electrical insulation system designated Class F. Inductor T2 employs bobbin material rated 150°C in the thickness used.

7. The equipment has been evaluated for use in a Pollution Degree 2 environment.

8. The component shall be installed in compliance with the enclosure, mounting, spacing, casualty markings and segregation requirements of the end-use application.

9. This power supply was 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 elevated ambient.

CONSTRUCTION DETAILS:

See Section General for additional details.

Operating/Instruction/Safety Manual - Provided with each unit. See ILL. 2.

Printed Wiring Board - See Section General for details.

General appearance of trace layout same as in ILL. 1. Board rated 130°C.

Model Differences - All models are the same, except for output ratings and differences in secondary, low voltage circuitry. Suffix L indicates chassis is provided. Suffix LC indicates a cover and chassis is provided.

Models followed by the suffix –XXX represents value added configurations that have no impact on safety.

Model SP1683 is identical to GLC110-12 except that it uses an alternate PWB that provides an alternate pinout on the secondary output connector, and the value for the Line-to-Ground capacitors C3 and C4 is reduced to 1500 pF.

CSA INTERNATIONAL

Certificate of Compliance

Certificate Number: LR 46516-308C

Revision: LR 46516-308C

Date Issued: October 12, 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: for S.S.

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 GLC110-12, (Level 3), input rated 100-240 V, 50/60 Hz, 3.1 A; dc output rated 12 V/9.1 A
- Model GLC110-15, (Level 3), input rated 100-240 V, 50/60 Hz, 3.1 A; dc output rated 15 V/7.3 A
- Model GLC110-24, (Level 3), input rated 100-240 V, 50/60 Hz, 3.1 A; dc output rated 24 V/4.6 A
- Model GLC110-212, (Level 3), input rated 100-240 V, 50/60 Hz, 3.1 A; dc output rated +12 V/9.1 A, -12 V/3 A.
- Model GLC110-215, (Level 3), input rated 100-240 V, 50/60 Hz, 3.1 A; dc output rated +15 V/7.3 A, -15 V/3 A.
- Model GLC110-524, (Level 3), input rated 100-240 V, 50/60 Hz, 3.1 A; dc output rated +5 V/2 A, +24 V/4.6 A.

Notes:

1. Maximum output power is 75 W with convection cooling; 110 W with 26 cfm airflow.
2. Maximum ambient temperature for rated out is 50°C.

CLASS 5311 20 - POWER SUPPLIES - Component Type

Component Power Supply for use in Medical Equipment, where the suitability of the combination is to be determined by the Canadian Standards Association.

- Model GLM110-12 , (Level 3), input rated 100-240 V, 50/60 Hz, 3.1 A; dc output rated 12 V/9.1 A.
- Model GLM110-15, (Level 3), input rated 100-240 V, 50/60 Hz, 3.1A; dc output rated 15 V/7.3 A.
- Model GLM110-24, (Level 3), input rated 100-240 V, 50/60 Hz, 3.1 A; dc output rated 24 V/4.6 A.
- Model GLM110-212, (Level 3), input rated 100-240 V, 50/60 Hz, 3.1 A; dc output rated +12 V/9.1 A, -12 V/3 A.
- Model GLM110-215, (Level 3), input rated 100-240 V, 50/60 Hz, 3.1 A; dc output rated +15 V/7.3 A, -15 V/3 A.
- Model GLM110-524, (Level 3), input rated 100-240 V, 50/60 Hz, 3.1 A; dc output rated +5 V/2 A, +24 V/4.6 A.

Notes:

1. Maximum output power is 75 W with convection cooling; 110 W with 26 cfm airflow.
2. Maximum ambient temperature for rated output is 50°C.
3. All outputs are intended for Signal Output and Intermediate Circuits only. The output is not acceptable for patient connection without additional isolation.
4. The outputs are SELV during normal and single fault conditions.
5. The isolation voltage from primary to secondary is 4000 V ac. The creepage distance between primary and secondary circuits is 8 mm minimum.
6. External overcurrent protection on the Neutral side of the line is required.

APPLICABLE REQUIREMENTS

CSA Std C22.2 No 0-M1991	-	General Requirements – Canadian Electrical Code, Part II
0.4-M1982	-	Bonding and Grounding of Electrical Equipment (Protective Grounding)
950-95 3rd Ed	-	Safety of Information Technology Equipment
601.1-M90	-	Medical Electrical Equipment
TIL CA-08	-	Power Supplies for use in Medical Electrical Equipment

ZERTIFIKAT • CERTIFICATE • 認証書 • СЕРТИФИКАТ • CERTIFICADO • CERTIFICAT

Product Service

CERTIFICATE

No. B 07 06 59743 031

Holder of Certificate: **SL Power Electronics, Corp.**

CONDOR

6050 King Drive Bldg A
Ventura CA 93003
USA

Production Facility(ies): 16784, 52962

Certification Mark:

Product: **Power supplies**
Switching Power Supply

Model(s): **GLC110-X Series and SP1683**
(where X = 12, 15, 24, 212, 215, or 524. May be followed by suffix -L or -LC to indicate optional chassis or chassis/cover and/or suffix -XXX where XXX may be any number from 001 thru 999.
The -XXX suffix are used for value added configurations that have no impact on safety.)
May be followed by an optional "G" which indicates compliance to RoHS.

Parameters:

Rated Input Voltage:	100 - 240 VAC
Rated Frequency:	50 / 60 Hz
Rated Input Current:	2.9 A
Rated DC Output:	see attachment
Protection Class:	I (at end use)
Ta:	50°C

Please see attachment for model differences 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.: 095-549126-100

Date, 2007-06-26 William A Wentholt

277608

Product Service

ATTACHMENT TO CERTIFICATE NO. B 07 06 59743 031 FOR SL POWER ELECTRONICS, CORP.

AC/DC SWITCHING POWER SUPPLIES

Output ratings:

MODEL	Output	Volts	0 CFM 60 Watts Max With Cover	0 CFM 75 Watts Max Without Cover	26 CFM 110 Watts Max With or without cover
GLC110-12	#1	12	5.0 A	6.3 A	9.1 A
GLC110-15	#1	15	4.0 A	5.0 A	7.3 A
GLC110-24	#1	24	2.5 A	3.2 A	4.6 A
GLC110-212	#1	+12	5.0 A	6.3 A	9.1 A
	#2	-12	2.5 A	2.5 A	3.0 A
GLC110-215	#1	+15	4.0 A	5.0 A	7.3 A
	#2	–15	2.5 A	2.5 A	3.0 A
GLC110-524	#1	+24	2.5 A	3.2 A	4.6 A
	#2	+5	1.5 A	1.5 A	2.0 A

MODEL	Output	Volts	0 CFM 60 Watts Max With Cover	0 CFM 75 Watts Max Without Cover	26 CFM 110 Watts Max With or without cover
SP1683	#1	12	5.0 A	6.3 A	9.1 A

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.

Report Number: 095-59126-100

William A. Southall

2007-06-26