



Ref. Certif. No.

US/7661/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 Supplies

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

100/120/215/230-240 V~, 50/60 Hz, for current ratings see CB Test Report.

CONDOR

HA15-0.9-A+, HA2-1.5-A+, HA24-0.5-A+, HA5-1.5/OVP-A+, HB12-1.7-A+, HB15-1.5-A+,
HB2-3-A+, HB24-1.2-A+, HB28-1-A+, HB5-3/OVP-A+, HC12-3.4-A+, HC15-3-A+,
HC2-6-A+, HC24-2.4-A+, HC28-2-A+, HC5-6/OVP-A+, and HD12-6.8-A+, HD15-6-A+,
HD2-12-A+, HD24-4.8-A+, HD28-4-A+, HD5-12/OVP-A+, HN12-5.1-A+, HN15-4.5-A+,
HN2-9-A+, HN24-3.6-A+, HN28-3-A+, HN5-9/OVP-A+, HE12-10.2-A, HE15-9-A,
HE2-18-A, HE24-7.2-A, HE28-6-A, and HE5-18-OV-A.

This report comprises 4 enclosures.

PUBLICATION

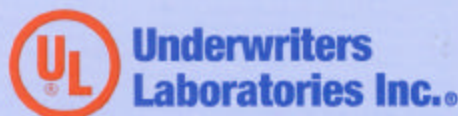
EDITION

IEC 60950-1 (2001) First Edition

Additionally evaluated to EN 60950-1 (2001) to include Group and National
Differences for European countries; other National Differences also specified
in the CB Test Report.

E135803-A1-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



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Date:

Issued: 2003 November 4

Signature:

Jolanta M. Wroblewska



Ref. Certif. No.

US/11064/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

Built-in Power Supply, AC/DC

Name and address of the applicant
Nom et adresse du demandeur

SL Power Electronics Corp.
6050 King Drive, Bldg. A
Ventura, CA 93003, USA

Name and address of the manufacturer
Nom et adresse du fabricant

SL Power Electronics Corp.
6050 King Drive, Bldg. A
Ventura, CA 93003, USA

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

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

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

100/120/215/230-240 V~, 50/60 Hz,
for current ratings, see CB Test Report.

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



Model / Type Ref.
Ref. de type

CP131-A+, CP323-A+, HAA15-0.8-A+, HAA24-0.6-A+, HAA5-1.5-OV-A+, HAA512-A+, HAA524-A+, HAD12-0.4-A+, HAD15-0.4-A+, HBAA40W-A+, HBB15-1.5-A+, HBB512-A+, HBB524-A+, HBB5-3-OV-A+, HCAA60W-A+, HCBB105W-A+, HCBB75W-A+, HCC15-3-A+, HCC512-A+, HCC524-A+, HCC5-6-OV-A+, HDBB105W-A+, HDCC150W-A+, HDD15-5-A+, HTAA-16W-A+, CP1803, may be followed by suffix G indicating compliance to RoHS. (RoHS compliance not evaluated by UL)

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

The CB Test Report comprises 4 enclosures.

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 60950-1 (2001) First Edition,
Additional evaluation to CENELEC Common Modifications also included.
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

E135803-A35-CB-1

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Ce Certificat d'essai OC est établi par l'Organisme National de Certification



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Date:
Issued: 2006 December 11

Signature:

Jolanta M. Wroblewska

File E135803
Project 91SC05587

1991-07-15

COMPONENT - POWER SUPPLIES
INFORMATION TECHNOLOGY EQUIPMENT
INCLUDING ELECTRICAL BUSINESS EQUIPMENT

Condor DC Power Supplies, Inc.
Oxnard, California

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and Report

DESCRIPTION

PRODUCT COVERED:

USR, Linear Power Supply, see model numbers listed under Electrical Ratings. All model numbers may be followed by -XXX, where X is a digit 0 to 9.

ELECTRICAL RATINGS:

Input Ratings: 100/120/215/230-240 V ac, 50/60 Hz. See below for rated input current.

<u>Model</u>	<u>Input Current</u>
HA15-0.9-A+	0.5/0.4/0.2/0.2 A
HA2-1.5-A+	0.4/0.3/0.2/0.2 A
HA24-0.5-A+	0.5/0.4/0.2/0.2 A
HA5-1.5/OVP-A+	0.4/0.4/0.2/0.2 A
HAA15-0.8-A+	0.77/0.65/0.35/0.33 A
HAA24-0.6-A+	0.77/0.65/0.35/0.33 A
HAA5-1.5/OVP-A+	0.53/0.46/0.24/0.24 A
HAA512-A+	0.61/0.52/0.28/0.26 A
HAA524-A+	0.7/0.6/0.3/0.3 A
HAD12-0.4-A+	0.4/0.3/0.2/0.2 A
HAD15-0.4-A+	0.5/0.4/0.2/0.2 A
HB12-1.7-A+	0.6/0.5/0.3/0.3 A
HB15-1.5-A+	0.65/0.56/0.31/0.28 A
HB2-3-A+	0.45/0.38/0.2/0.2 A
HB24-1.2-A+	0.76/0.65/0.35/0.32 A
HB28-1-A+	0.72/0.62/0.34/0.31 A
HB48-0.5-A+	0.6/0.5/0.3/0.3 A
HB5-3/OVP-A+	0.6/0.5/0.3/0.3 A
HBAA-40W-A+	1.3/1.1/0.6/0.6 A
HBB15-1.5-A+	1.4/1.2/0.7/0.6 A
HBB512-A+	1.2/1.0/0.6/0.5 A
HBB524-A+	1.2/1.1/0.6/0.5 A
HBB5-3/OVP-A+	1.0/0.9/0.5/0.5 A
HC12-3.4-A+	1.2/1.0/0.6/0.5 A
HC15-3-A+	1.3/1.1/0.6/0.6 A
HC24-2.4-A+	1.4/1.2/0.7/0.6 A
HC2-6-A+	0.9/0.8/0.4/0.4 A
HC28-2-A+	1.4/1.2/0.7/0.6 A
HC48-1-A+	1.1/1.0/0.5/0.5 A
HC5-6/OVP-A+	1.1/0.9/0.5/0.5 A
HTAA-16W-A+	0.7/0.6/0.3/0.3 A

Output Ratings:

<u>Model</u>	<u>V1</u>	<u>A1</u>	<u>V2</u>	<u>A2</u>	<u>V3</u>	<u>A3</u>
HA15-0.9-A+	12/15	0.9				
HA2-1.5-A+	2	1.5				
HA24-0.5-A+	24/28	0.5				
HA5-1.5/OVP-A+	5	1.5				
HAA15-0.8-A+	12/15	1.0/0.8	-12 to 15	1.0/0.8		
HAA24-0.6-A+	+18 to 24	0.4/0.6	-18 to 24	0.4/0.6		
HAA5-1.5/OVP-A+	+5	1.5	-5	1.5		
HAA512-A+	5	2.0	9 to 15	0.5		
HAA524-A+	5	2.0	18 to 24	0.3		
HAD12-0.4-A+	+12	0.4	-12	0.4		
HAD15-0.4-A+	+15	0.4	-15	0.4		
HB12-1.7-A+	12	1.7				
HB15-1.5-A+	15	1.5				
HB2-3-A+	2	3.0				
HB24-1.2-A+	24	1.2				
HB28-1-A+	28	1.0				
HB48-0.5-A+	48	0.5				
HB5-3/OVP-A+	5	3.0				
HBAA-40W-A+	5	3.0	+12/15	1/0.8	-12/15/5	1/0.8/0.4
HBB15-1.5-A+	+12/15	1.7/1.5	-12/15	1.7/1.5		
HBB512-A+	5	3.0	+9 to 15	1.25		
HBB524-A+	5	3.0	+18 to 24	0.8		
HBB5-3/OVP-A+	+5	3.0	-5	3.0		
HC12-3.4-A+	12	3.4				
HC15-3-A+	15	3.0				
HC24-2.4-A+	24	2.4				
HC2-6-A+	2	6.0				
HC28-2-A+	28	2.0				
HC48-1-A+	48	1.0				
HC5-6/OVP-A+	5	6.0				
HTAA-16W-A+	5	2.0	+9 to 15	0.4	-9 to 15 or -5	0.4

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, CSA-C22.2 No. 60950-00 ♦ UL 60950, Third 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, Including Electrical Business Equipment, CSA-C22.2 No. 60950-00 ♦ UL 60950, Third Edition, which would cover the component itself if submitted for unrestricted listing.
2. All secondary output circuits on all models except HAA24-0.6-A+, HB48-0.5-A+ and HC48-1-A+ 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. 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 T1 employs an OBJY2 electrical insulation system designated Class F.
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.
10. These power supplies were tested with a UL Listed external input line fuse. The fuse ratings used are as described in Illustration 3. An additional evaluation should be made if an input line fuse greater than that specified is to be used in the end product.

File E135803
Project 91SC12647

1991-10-15

REPORT

on

COMPONENT - POWER SUPPLIES
INFORMATION TECHNOLOGY EQUIPMENT
INCLUDING ELECTRICAL BUSINESS EQUIPMENT

Condor DC Power Supplies, Inc.
Oxnard, California

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DESCRIPTION

PRODUCT COVERED:

USR - Component - Linear Power Supplies for use in Information Technology Equipment, A+ Series, see model numbers listed under Electrical Ratings. All model numbers may be followed by XXX, where X is a digit 0 to 9.

USR/CNR - Model CP1803.

ELECTRICAL RATING:

Model	Input Current 100/120/215/230-240 V	Output Ratings
*		
HD12-6.8-A+	2.8/2.4/1.3/1.2 A	12 V, 6.8 A
HD15-6-A+	2.8/2.4/1.3/1.2 A	15 V, 6 A
HD2-12-A+	1.5/1.3/0.7/0.7 A	2 V, 12 A
HD24-4.8-A+	2.8/2.4/1.3/1.2 A	24 V, 4.8 A
HD28-4-A+	2.5/2.1/1.2/1.1 A	28 V, 4 A
HD5-12/OVP-A+	2.3/1.9/1.0/1.0 A	5 V, 12 A
HN12-5.1-A+	1.7/1.5/0.8/0.8 A	12 V, 5.1 A
HN15-4.5-A+	1.7/1.5/0.8/0.8 A	15 V, 4.5 A
HN2-9-A+	2.0/1.7/0.9/0.9 A	2 V, 9 A
HN24-3.6-A+	2.1/1.8/0.9/0.9 A	24 V, 3.6 A
HN28-3-A+	2.0/1.7/0.9/0.9 A	28 V, 3 A
HN5-9/OVP-A+	1.6/1.3/0.7/0.7 A	5 V, 9 A
* HD48-3-A+	3/2.6/1.4/1.3 A	48 V, 2.5 A with 14 cfm fan 48 V, 3 A
CP1413	2.1/1.8/0.9/0.9 A	24 V, 3.6 A
CP1803	2.0/1.7/1.0/0.9 A	5 V, 8 A, 5 V, 2 A

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

* **USR/CNR indicates investigation to the U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, CSA-C22.2 No. 60950-00 ♦ UL 60950, Third Edition.**

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, Subclause 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. All transformers employ a min. Class **B** (130°C) electrical insulation system. **Transformer for CP1803 has a Class F (155°C) insulation system.**
6. 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. Models provided with suffix "XXX" may be provided with Wiring Harnesses.

7. 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. 60950-00** ♦ UL 60950. 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.
8. All secondary outputs of these power supplies are considered SELV, except for the 48 V dc outputs.
9. This power supply was evaluated under the assumption that the power source is a TN-S system as defined by **CSA-C22.2 No. 60950-00** ♦ UL 60950.
10. This power supply has been evaluated for use in a 25°C and a 50°C ambient.
11. The end use product shall provide a primary fuse and the fuse replacement marking. See Ill. 2 for fuse values.

File E135803
Project 92SC18124

1993-02-26

COMPONENT - POWER SUPPLIES
INFORMATION TECHNOLOGY EQUIPMENT
INCLUDING ELECTRICAL BUSINESS EQUIPMENT

Condor DC Power Supplies, Inc.
Oxnard, California

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DESCRIPTION

PRODUCT COVERED:

Component - Linear Power Supplies for use in Information Technology Equipment, Models F5-25/OVP-A+, HDBB-105W-A+, HDD15-5-A+, HE2-18-A+, HE5-18/OVP-A+, HE12-10.2-A+, HE15-9-A+, HE24-7.2-A+, HE28-6-A+, and HE48-4-A+.

65

ELECTRICAL RATINGS:

Input:

<u>Model</u>	<u>Voltage</u>	<u>Current</u>	<u>Frequency</u>
F5-25/OVP-A+	100/120/215/230-240	3.8/1.6	47 - 63
HDBB-105W-A+	100/120/215/230-240	3.0/1.3	47 - 63
HDD15-5-A+	100/120/215/230-240	3.4/1.5	47 - 63
HE2-18-A+	100/120/215/230-240	2.2/0.9	47 - 63
HE5-18/OVP-A+	100/120/215/230-240	2.9/1.2	47 - 63
HE12-10.2-A+	100/120/215/230-240	3.3/1.4	47 - 63
HE15-9-A+	100/120/215/230-240	3.7/1.5	47 - 63
HE24-7.2-A+	100/120/215/230-240	3.9/1.6	47 - 63
HE28-6-A+	100/120/215/230-240	3.6/1.5	47 - 63
HE48-4-A+	100/120/215/230-240	4.0/1.7	47 - 63

Output:

<u>Model</u>	<u>V1</u>	<u>A1</u>	<u>V2</u>	<u>A2</u>	<u>V3</u>	<u>A3</u>
F5-25/OVP-A+	5	25	-	-	-	-
HDBB-105W-A+	5	12	12	1.7	-12	1.7
			or 15	1.5	-15	1.5
HDD15-5-A+	15	5	-15	5	-	-
HE2-18-A+	2	18	-	-	-	-
HE5-18/OVP-A+	5	18	-	-	-	-
HE12-10.2-A+	12	10.2	-	-	-	-
HE15-9-A+	15	9	-	-	-	-
HE24-7.2-A+	24	7.2	-	-	-	-
HE28-6-A+	28	6	-	-	-	-
HE48-4-A+	48	4	-	-	-	-

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

* This product was investigated under the Standard for Information Technology Equipment, UL 60950, Third Edition.

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

1. These components have been judged on the basis of the required spacings in the Standard for Information Technology Equipment, Sub-Clause 2.9, which would cover the components themselves if submitted for unrestricted Listing.
2. These power supplies 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 determine as part of the end-product evaluation.
4. This power supply has only been evaluated for use in a pollution degree 2 environment.
5. Consideration should be given to conducting a Heating Test in the end product; as a 14 CFM Fan was used with testing. Consideration should be given to measuring the temperature on power electronic components, inductors, and transformer windings when the power supply is installed in the end-use equipment. All transformers employ a Class 130 electrical insulation system.
6. 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.
7. 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 60950. 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.
8. The secondary outputs of this power supply are considered SELV.
9. This power supply was evaluated under the assumption that the power source is a TN-S system as defined by UL 1950.
10. This power supply has been evaluated for use in a 25°C and a 50°C ambient.

11. The voltage selector jumper has not been evaluated for current interruption while the unit is under load.
12. The power supply, Model HE48-4-A+, has outputs which exceed 240 VA at a potential of 2 V or more. Therefore, the accessibility of these circuits should be considered when installed in the end-use product.
13. This power supply is provided with overcurrent protection in one side of the line. Consideration should be given to protecting both sides of the line if one side of the line is not a neutral conductor.
14. The isolating transformer T1, employs Recognized Component Insulation Systems (OBJY2), designated Class 130.

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Underwriters Laboratories Inc.®

File E135803
Project 93SC05564

May 6, 1993

REPORT

ON

COMPONENT - POWER SUPPLIES, INFORMATION TECHNOLOGY
EQUIPMENT INCLUDING ELECTRICAL BUSINESS EQUIPMENT

Condor D C Power Supplies Inc.
Oxnard, California

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D E S C R I P T I O N

PRODUCT COVERED:

* Component - Linear Power Supplies for Use in Information Technology Equipment, Models F15-15-A+, F24-12A+, F48-6-A+, G5-35/OVP-A+, CP197-A+, HDCC-150W-A+, CP1399 and CP1467.

ELECTRICAL RATINGS:

<u>Model</u>	<u>Input</u>	<u>Output</u>
F15-15-A+	100/120/215/230-240 V ac 47-63 Hz, 396 W max +	12 V dc, 16 A or 15 V dc, 15 A
F24-12-A+	100/120/215/230-240 V ac 47-63 Hz, 466 W max +	24 V dc, 12 A or 28 V dc, 10 A
F48-6-A+	100/120/215/230-240 V ac 47-63 Hz, 447 W max +	48 V dc, 6 A
G5-35/OVP-A+	100/120/215/230-240 V ac 47-63 Hz, 381 W max +	5 V dc, 35 A
CP197-A+	100/120/215/230-240 V ac 47-63 Hz, 447 W max +	5 V dc, 50 A
HDCC-150W-A+	100/120/215/230-240 V ac 47-63 Hz +	5 V dc, 12 A; ± 12 V dc, 3.4 A or ± 15 V dc, 3 A
CP1399	100/120/215/230-240 V ac 47-63 Hz	40 V dc, 6 A
CP1467	100/120/200/220/230-240 V ac 47-63 Hz, 2.25 A	5 V dc, 12 A; ± 12 V dc, 3.4 A ± 15 V dc, 3 A

With 35 cfm forced air cooling 2 in. over Transformer, T1.

+ For Input Current Ratings, see ILL. 3.

ENGINEERING CONSIDERATIONS (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.

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

1. These components have been judged on the basis of the required spacings in the Standard for Information Technology Equipment, Sub-Clause 2.9, which would cover the components themselves if submitted for unrestricted Listing.
2. These power supplies 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. Consideration should be given to conducting a Heating Test in the end product; as a 35 cfm fan was used with testing. Consideration should be given to measuring the temperature on power electronic components, inductors, and transformer windings when the power supply is installed in the end-use equipment. All transformers employ a Class 130 electrical insulation system.

6. 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.
7. 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.
- 8.* The secondary outputs of this power supply are considered SELV, except for Models F48-6-A+ and CP1399 which are considered ELV.
9. The power supplies were evaluated under the assumption that the power source is a TN-S system as defined by UL 1950.
10. The power supplies have been evaluated for use in a 25°C and a 50°C ambient.
11. The voltage selector jumper has not been evaluated for current interruption while the unit is under load.
- 12.* The power supplies, Models CP197-A+, F15-15-A+, F24-12-A+, F48-6-A+, and CP1399 have outputs which exceed 240 VA at a potential of 2 V or more. Therefore, the accessibility of these circuits should be considered when installed in the end-use product.
13. These power supplies are not provided with overcurrent protection in one side of the line. External overcurrent protection is required and the value specified. See ILL. 3.
14. The isolating Transformer T1, employs Recognized Component - Insulation Systems (OBJY2), designated Class 130.

COVER PAGE FOR TEST REPORT

Product Category:	Power Supplies for Information Technology Equipment Including Electrical Business Equipment
Product Category CCN:	QQGQ2, QQGQ8
Test Procedure:	Component Recognition
Product:	Power Supplies
Model/Type Reference:	HA15-0.9-A+, HA2-1.5-A+, HA24-0.5-A+, HA5-1.5/OVP-A+, HB12-1.7-A+, HB15-1.5-A+, HB2-3-A+, HB24-1.2-A+, HB28-1-A+, HB5-3/OVP-A+, HC12-3.4-A+, HC15-3-A+, HC2-6-A+, HC24-2.4-A+, HC28-2-A+, HC5-6/OVP-A+, and HD12-6.8-A+, HD15-6-A+, HD2-12-A+, HD24-4.8-A+ , HD28-4-A+, HD5-12/OVP-A+, HN12-5.1-A+ , HN15-4.5-A+ , HN2-9-A+, HN24-3.6-A+, HN28-3-A+ , HN5-9/OVP-A+, HE12-10.2-A, HE15-9-A, HE2-18-A, HE24-7.2-A, HE28-6-A, and HE5-18-OV-A.
Rating(s):	100/120/215/230-240 V~, 50/60 Hz, for current ratings, see General Product Information.
Standards:	UL 60950-1:2003, First Edition
Applicant Name and Address:	CONDOR D C POWER SUPPLIES INC 2311 STATHAM PKY OXNARD CA 93033
This Report includes the following parts, in addition to this cover page: <ol style="list-style-type: none">1. Specific Technical Criteria2. National Differences	

This is to certify that representative samples of the products covered by this Test Report have been investigated by Underwriters Laboratories Inc. ('UL') 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 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.

UL authorizes the applicant 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:

Reviewed By:

Ahmad Daoudi
Engineering Project Handler

Robert Hilbrecht
Senior Staff Engineer
Underwriters Laboratories Inc.

COVER PAGE FOR TEST REPORT

Product Category:	Power Supplies for Information Technology Equipment Including Electrical Business Equipment
Product Category CCN:	QQGQ2, QQGQ8
Test Procedure:	Component Recognition
Product:	Built-in Power Supply, AC/DC
Model/Type Reference:	CP131-A+, CP323-A+, HAA15-0.8-A+, HAA24-0.6-A+, HAA5-1.5-OV-A+, HAA512-A+, HAA524-A+, HAD12-0.4-A+, HAD15-0.4-A+, HBAA40W-A+, HBB15-1.5-A+, HBB512-A+, HBB524-A+, HBB5-3-OV-A+, HCAA60W-A+, HCBB105W-A+, HCBB75W-A+, HCC15-3-A+, HCC512-A+, HCC524-A+, HCC5-6-OV-A+, HDBB105W-A+, HDCC150W-A+, HDD15-5-A+, HTAA-16W-A+, CP1803. Models may be followed by suffix G to indicate compliance to RoHS. (RoHS compliance has not been evaluated by UL)
Rating(s):	100/120/215/230-240 V~, 50/60 Hz, for current ratings, see General Product Information.
Standards:	UL 60950-1:2003, First Edition CSA C22.2 No. 60950-1-03 1st Ed. April 1, 2003
Applicant Name and Address:	SL POWER ELECTRONICS CORP 6050 KING ST VENTURA CA 93003
This Report includes the following parts, in addition to this cover page:	
	<ol style="list-style-type: none">1. Specific Inspection Criteria2. Specific Technical Criteria3. Clause Verdicts4. Critical Components5. Test Results6. National Differences7. 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.

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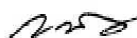
Any information and documentation provided to you involving UL Mark services are provided on behalf of Underwriters Laboratories Inc(ULI) or any authorized license of ULI.

Test Report By:



Ahmad Daoudi
Engineering Project Handler
Underwriters Laboratories Inc.

Reviewed By:



Robert Hilbrecht
Staff Engineer
Underwriters Laboratories Inc.

SPECIFIC INSPECTION CRITERIA

BA1.0	Special Instructions to UL Representative
BA1.1	N/A

BB1.0	Supporting Documentation
BB1.1	<p>The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:</p> <p>A. Authorization - The Authorization page may include additional Factory Identification Code markings.</p> <p>B. Generic Inspection Instructions -</p> <ol style="list-style-type: none"> i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report. ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report. iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.


BC1.0	Markings and instructions	
BC1.1	The following markings and instructions are provided as indicated.	
BC1.2	All clause references are from UL 60950-1:2003, First Edition.	
Standard Clause	Clause Title	Marking or Instruction Details
1.7	Safety Instructions - Rack Mount	<p>"Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:</p> <p>A) Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.</p> <p>B) Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.</p> <p>C) Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.</p>

		<p>D) Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.</p> <p>E) Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips)."</p>
1.7.1	Power rating - Ratings	Ratings (voltage, frequency/dc, current)
	Power rating - Model	Model Number

BD1.0	Production-Line Testing Requirements						
BD1.1	Electric Strength Test Special Constructions - Refer to Generic Inspection Instructions, Part AC for further information.						
					Test Potential		
	Model	Component	Removable Parts	Test probe location	V rms	V dc	Test Time, s
	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BD1.2	Earthing Continuity Test Exemptions - This test is not required for the following models:			N/A			
BD1.3	Electric Strength Test Exemptions - This test is not required for the following models:			N/A			
BD1.4	Electric Strength Test Component Exemptions - The following solid-state components may disconnected from the remainder of the circuitry during the performance of this test:			N/A			

BE1.0	Sample and Test Specifics for Follow-Up Tests at UL					
BE1.1	Model	Component	Material	Test	Sample(s)	Test Specifics
	N/A	N/A	N/A	N/A	N/A	N/A

SPECIFIC TECHNICAL CRITERIA

UL 60950-1, First Edition	
Information technology equipment - Safety-	
Part 1: General Requirements	
Report Reference No	E135803-A35-UL-1
Compiled by	Ahmad Daoudi
Reviewed by	Robert Hilbrecht
Date of issue	2006-12-07
Standards	UL 60950-1:2003, First Edition CSA C22.2 No. 60950-1-03 1st Ed. April 1, 2003
Test procedure	Component Recognition
Non-standard test method	N/A
Test item description	Built-in Power Supply, AC/DC
Trademark	
Model and/or type reference	CP131-A+, CP323-A+, HAA15-0.8-A+, HAA24-0.6-A+, HAA5-1.5-OV-A+, HAA512-A+, HAA524-A+, HAD12-0.4-A+, HAD15-0.4-A+, HBAA40W-A+, HBB15-1.5-A+, HBB512-A+, HBB524-A+, HBB5-3-OV-A+, HCAA60W-A+, HCBB105W-A+, HCBB75W-A+, HCC15-3-A+, HCC512-A+, HCC524-A+, HCC5-6-OV-A+, HDBB105W-A+, HDCC150W-A+, HDD15-5-A+, HTAA-16W-A+, CP1803. Models may be followed by suffix G to indicate compliance to RoHS. (RoHS compliance has not been evaluated by UL)
Rating(s)	100/120/215/230-240 V~, 50/60 Hz, for current ratings, see General Product Information.

Particulars: test item vs. test requirements	
Equipment mobility	for building-in
Operating condition	continuous
Mains supply tolerance (%)	+6%, -10%
Tested for IT power systems	Yes, considered
IT testing, phase-phase voltage (V)	230
Class of equipment	Class I (earthed)
Mass of equipment (kg)	See table under General Product Information
Protection against ingress of water	IP X0

Possible test case verdicts:

- test case does not apply to the test object: N / A
- test object does meet the requirement: Pass
- test object does not meet the requirement: Fail (acceptable only if a corresponding, less stringent national requirement is "Pass")

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																																																																																																																																																
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CD1.1	<p>INPUT CURRENT RATINGS - Amps</p> <table border="1"> <thead> <tr> <th>Model</th> <th>100V</th> <th>120V</th> <th>215V</th> <th>230-240V</th> </tr> </thead> <tbody> <tr><td>CP131-A+</td><td>2.3</td><td>2.0</td><td>1.1</td><td>1.0</td></tr> <tr><td>CP323-A+</td><td>1.7</td><td>1.4</td><td>0.8</td><td>0.7</td></tr> <tr><td>HAA15-0.8-A+</td><td>0.77</td><td>0.65</td><td>0.35</td><td>0.33</td></tr> <tr><td>HAA24-0.6-A+</td><td>0.77</td><td>0.65</td><td>0.35</td><td>0.33</td></tr> <tr><td>HAA5-1.5-OV-A+</td><td>0.53</td><td>0.46</td><td>0.24</td><td>0.24</td></tr> <tr><td>HAA512-A+</td><td>0.61</td><td>0.52</td><td>0.28</td><td>0.26</td></tr> <tr><td>HAA524-A+</td><td>0.7</td><td>0.6</td><td>0.3</td><td>0.3</td></tr> <tr><td>HAD12-0.4-A+</td><td>0.5</td><td>0.4</td><td>0.2</td><td>0.2</td></tr> <tr><td>HAD15-0.4-A+</td><td>0.5</td><td>0.4</td><td>0.2</td><td>0.2</td></tr> <tr><td>HBAA40W-A+</td><td>1.3</td><td>1.1</td><td>0.6</td><td>0.6</td></tr> <tr><td>HBB15-1.5-A+</td><td>1.4</td><td>1.2</td><td>0.7</td><td>0.6</td></tr> <tr><td>HBB512-A+</td><td>1.2</td><td>1.0</td><td>0.6</td><td>0.5</td></tr> <tr><td>HBB524-A+</td><td>1.2</td><td>1.1</td><td>0.6</td><td>0.5</td></tr> <tr><td>HBB5-3-OV-A+</td><td>1.0</td><td>0.9</td><td>0.5</td><td>0.5</td></tr> <tr><td>HCAA60W-A+</td><td>3.0</td><td>2.8</td><td>1.5</td><td>1.4</td></tr> <tr><td>HCBB105W-A+</td><td>2.7</td><td>2.2</td><td>1.2</td><td>1.1</td></tr> <tr><td>HCBB75W-A+</td><td>2.3</td><td>2.0</td><td>1.1</td><td>1.0</td></tr> <tr><td>HCC15-3-A+</td><td>2.4</td><td>1.9</td><td>1.0</td><td>1.0</td></tr> <tr><td>HCC512-A+</td><td>2.5</td><td>2.2</td><td>1.2</td><td>1.1</td></tr> <tr><td>HCC524-A+</td><td>2.4</td><td>2.0</td><td>1.2</td><td>1.0</td></tr> <tr><td>HCC5-6-OV-A+</td><td>2.0</td><td>1.7</td><td>1.0</td><td>0.9</td></tr> <tr><td>HDBB105W-A+</td><td>3.0</td><td>2.5</td><td>1.4</td><td>1.3</td></tr> <tr><td>HDCC150W-A+</td><td>4.4</td><td>3.8</td><td>2.1</td><td>1.9</td></tr> <tr><td>HDD15-5-A+</td><td>3.4</td><td>2.9</td><td>1.6</td><td>1.5</td></tr> <tr><td>HTAA-16W-A+</td><td>0.7</td><td>0.6</td><td>0.3</td><td>0.3</td></tr> <tr><td>CP1803</td><td>2.0</td><td>1.7</td><td>1.0</td><td>0.9</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Model</th> <th>Case Code</th> <th>Output Ratings</th> </tr> </thead> <tbody> <tr> <td>CP131-A+</td> <td>NBB</td> <td>5 V 9 A; +12 V 1.7 A or +15 V 1.5 A; -12 V 1.7 A or -15 V 1.5 A or -5 V 0.7 A</td> </tr> <tr> <td>CP323-A+</td> <td>B</td> <td>12 V 4 A; 5 V 2 A</td> </tr> </tbody> </table>	Model	100V	120V	215V	230-240V	CP131-A+	2.3	2.0	1.1	1.0	CP323-A+	1.7	1.4	0.8	0.7	HAA15-0.8-A+	0.77	0.65	0.35	0.33	HAA24-0.6-A+	0.77	0.65	0.35	0.33	HAA5-1.5-OV-A+	0.53	0.46	0.24	0.24	HAA512-A+	0.61	0.52	0.28	0.26	HAA524-A+	0.7	0.6	0.3	0.3	HAD12-0.4-A+	0.5	0.4	0.2	0.2	HAD15-0.4-A+	0.5	0.4	0.2	0.2	HBAA40W-A+	1.3	1.1	0.6	0.6	HBB15-1.5-A+	1.4	1.2	0.7	0.6	HBB512-A+	1.2	1.0	0.6	0.5	HBB524-A+	1.2	1.1	0.6	0.5	HBB5-3-OV-A+	1.0	0.9	0.5	0.5	HCAA60W-A+	3.0	2.8	1.5	1.4	HCBB105W-A+	2.7	2.2	1.2	1.1	HCBB75W-A+	2.3	2.0	1.1	1.0	HCC15-3-A+	2.4	1.9	1.0	1.0	HCC512-A+	2.5	2.2	1.2	1.1	HCC524-A+	2.4	2.0	1.2	1.0	HCC5-6-OV-A+	2.0	1.7	1.0	0.9	HDBB105W-A+	3.0	2.5	1.4	1.3	HDCC150W-A+	4.4	3.8	2.1	1.9	HDD15-5-A+	3.4	2.9	1.6	1.5	HTAA-16W-A+	0.7	0.6	0.3	0.3	CP1803	2.0	1.7	1.0	0.9	Model	Case Code	Output Ratings	CP131-A+	NBB	5 V 9 A; +12 V 1.7 A or +15 V 1.5 A; -12 V 1.7 A or -15 V 1.5 A or -5 V 0.7 A	CP323-A+	B	12 V 4 A; 5 V 2 A
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	HAA24-0.6-A+	AA	±24 V 0.6 A
	HAA5-1.5/OVP-A+	AA	±5 V 1.5 A
	HAA512-A+	AA	5 V 2 A; 9-15 V 0.5 A
	HAA524-A+	AA	5 V 2 A; 18-24 V 0.3 A
	HAD12-0.4-A+	B	±12 V 0.4 A
	HAD15-0.4-A+	B	±15 V 0.4 A
	HBAA40W-A+	BAA	5 V 3 A; +12 V 1 A or +15 V 0.8 A; -12 V 1 A or -15 V 0.8 A or -5 V 0.4 A
	HBB15-1.5-A+	BB	+12 V 1.7 A or +15 V 1.5 A; -12 V 1.7 A or -15 V 1.5 A or -5 V 0.7 A
	HBB512-A+	BB	5 V 3 A; 9-15 V 1.25 A
	HBB524-A+	BB	5 V 3 A; 18-24 V 0.8 A
	HBB5-3/OVP-A+	BB	±5 V 3 A
	HCAA60W-A+	D	5 V 6 A; +12 V 1 A or +15 V 0.8 A; -12 V 1 A or -15 V 0.8 A or -5 V 0.4 A
	HCBB105W-A+	CBB	5 V 3 A; +12 V 2.5 A or +15 V 2 A; -12 V 2.5 A or -15 V 2 A or -5 V 1 A
			(+12 V 3.4 A or +15 V 3 A; -12 V 3.4 A or -15 V 3 A or -5 V 1.5 A with 14cfm airflow)
	HCBB75W-A+	CBB	5 V 6 A; +12 V 1.7 A or +15 V 1.5 A; -12 V 1.7 A or -15 V 1.5 A or -5 V 0.7 A
	HCC15-3-A+	CC	+12 V 3.4 A or +15 V 3 A; -12 V 3.4 A or -15 V 3 A or -5 V 1.4 A
	HCC512-A+	CC	5 V 4 A (6 A with 14 cfm airflow); 9-15 V 2.5 A
	HCC524-A+	CC	5 V 4 A (6 A with 14 cfm airflow); 18-24 V 2 A
	HCC5-6/OVP-A+	CC	±5 V 4 A (6 A with 14 cfm airflow)
	HTAA-16W-A+	AA	5 V 2 A; +9-15 V 0.4 A; -9 to -15 V 0.4 A or -5 V 0.4 A
	CP1803	D	5 V 8 A; 5 V 2 A
	Mass of equipment (kg):		
	Case Code	Weight kg	
	AA, B	0.9	
	BB	1.8	
	BAA	2.3	
	CC	3.2	
	D	3.4	
	CBB	3.6	
	NBB	5.4	
	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 manufacturer upon request by CBTLs/NCBs.		
CE1.0	Technical Considerations		
CE1.2	The product was submitted and tested for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 50°C		
CE1.4	The product is intended for use on the following power systems: TN, IT		
CE1.7	The product was investigated to the following additional standards: EN 60950-1:2001 (which includes all European national differences, including those specified in this test report).		

CE1.14	The following are available from the Applicant upon request: Installation (Safety) Instructions / Manual
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:
CF1.5	The following secondary output circuits are SELV: All secondary output circuits on all models except the 48 Vdc outputs and Models HAA24-0.6-A+ are SELV and are not hazardous energy levels.
CF1.7	The following secondary output circuits are at non-hazardous energy levels: All secondary output circuits on all models except the 48 Vdc outputs and Models HAA24-0.6-A+ are not hazardous energy levels.
CF1.11	The power supply terminals and/or connectors are: Not investigated for field wiring
CF1.13	The investigated Pollution Degree is: 2
CF1.15	Proper bonding to the end-product main protective earthing termination is: Required
CF1.16	An investigation of the protective bonding terminals has: Not been conducted
CF1.18	The following magnetic devices (e.g. transformers or inductor) are provided with an OBJY2 insulation system with the indicated rating greater than Class A (105°C): All transformers are (Class F, 155°C)
CF1.19	The following end-product enclosures are required: Mechanical, Electrical, Fire
CF1.23	The equipment is suitable for direct connection to: AC mains supply
CF2.0	The power supply shall be installed in compliance with the enclosure, mounting, spacing, casualty and segregation requirements of the end-use application.
CF2.1	This power supplies were evaluated for use in a 25 or 50°C ambient. An additional evaluation should be made if the power supply is intended to be used in an elevated ambient.
CF2.2	Consideration should be given to conducting a Heating Test in the end product; as a 14 cfm fan was used for models HDBB-105W-A+ and HDD15-5-A+, and a 35 cfm fan was used for model HDCC-150W-A+ when tested. Consideration should be given to measuring the temperature on power electronic components, inductors, and transformer windings when the power supply is installed in the end-use equipment.
CF2.3	The input/output terminals have not been evaluated for field connection and are only intended for internal wiring inside the end-use product. The acceptability of this and secureness, insulating materials, and temperature shall be considered in the end-product evaluation.
CF2.4	All tests were conducted with an external R/C fuse, rated per external fuse value marked on the chassis and a 20 A external circuit breaker.
CF2.5	The product input and output are isolated from each other by Reinforced insulation.
CF2.6	The PWB is rated minimum 130°C.
CF2.7	Installation Instructions can be found on the SL Power Electronics Corp. website at www.slpower.com or can be requested by writing to "SL Power Electronics Corp., 6050 King Drive, Bldg. A, Ventura, CA 93003, U.S.A."
CF2.8	The need for conducting Touch Current Tests is to be determined as part of the end-product evaluation.

CF2.9	The voltage selector jumper has not been evaluated for current interruption.
CF3	Consideration should be given to protecting both sides of the line if one side of the line is not a neutral conductor.
CF3.1	The end use product shall provide a primary fuse and the fuse replacement marking.



Certificate of Compliance

Certificate Number: LR 46516-161C

Revision: LR 46516-192C

Date Issued: May 26, 1994

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

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

Issued By: William Giesbrecht, AScT.
Vancouver, B. C.
Canada

Signature

CLASS

5311 03 - POWER SUPPLIES - Component Type

PRODUCTS

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 CP197-A+ (Level 5), input rated 100/120/215/230-240 V, 50/60 Hz, 6.8/5.8/3.1/2.0 A; dc output rated 5 V/50 A at 25°C amb, 5 V/44 A at 50°C amb.

Model F15-15-A+ (Level 5), input rated 100/120/215/230-240 V, 50/60 Hz, 5.8/4.9/2.7/2.5 A; dc outputs rated 12 V/16 A or 15 V/15 A at 50°C amb.

Model F24-12-A+ (Level 5), input rated 100/120/215/230-240 V, 50/60 Hz, 6.8/5.8/3.2/3.0 A; dc outputs rated 24 V/12 A or 28 V/10 A at 25°C amb.

Model F48-6-A+ (Level 1), input rated 100/120/215/230-240 V, 50/60 Hz, 6.6/5.7/3.0/2.6 A; dc output rated 48 V/6 A at 25°C amb, 48 V/5 A at 50°C amb.



Certificate of Compliance

Certificate Number: LR 46516-161C

Revision: LR 46516-192C

Date Issued: May 26, 1994

Model G5-35/OVP-A+ (Level 5), input rated 100/120/215/230-240 V, 50/60 Hz, 5.0/4.3/2.4/2.2 A; dc output rated 5 V/35 A at 50°C amb.

Model HDCC-150W-A+ (Level 3), input rated 100/120/215/230-240 V, 50/60 Hz, 4.4/3.8/2.1/1.9 A; output rated 5 V/12 A, ± 12 V/3.4 A or ± 15 V/3 A at 50°C.

Model CP1399 (Level 1) input rated 100/120/215/230-240 V, 50/60 Hz, 6.6/5.7/3.0/2.6 A; dc output rated 40 V/6 A at 40°C amb.

Model CP1467 (Level 3), input rated 100/120/200/220/230-240 V, 50/60 Hz, 4.4/3.8/2.25/2.1/1.9 A; dc output rated 5 V/12 A, ± 12 V/3.4 A or ± 15 V/3 A at 50°C.

Notes:

1. Primary overcurrent protection required in accordance with manufacturer's instructions.
2. Outputs are derated to 10% for operation at 50 Hz.
3. All output ratings are with 35 cfm forced air cooling.
4. Maximum full load operating ambient temperature is as specified above.

APPLICABLE REQUIREMENTS

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

Certificate of Compliance

Certificate: 1195263

Master Contract: 150684 (LR 46516C)

Edition: 1

Date Issued: March 26, 2001

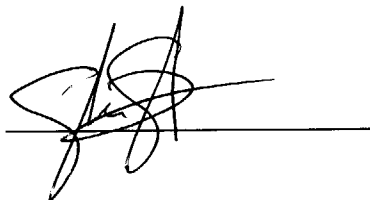
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2311 Statham Parkway
Oxnard, CA 93033
USA

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US'



Issued by: Shane Stevenson, AScT.

Signature:



PRODUCTS

CLASS 5311 03/83 - POWER SUPPLIES - Component Type

Component power supplies for use with Information Technology Equipment, where the suitability of the combination is to be determined by CSA International.

- Model HA15-0.9-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.5/0.4/0.2/0.2 A; dc output overall classification Level 3, rated 12 V/0.9 A or 15 V/0.9 A.

- Model HA2-1.5-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.4/0.3/0.2/0.2 A; dc output overall classification Level 3, rated 2 V/1.5 A.

- Model HA24-0.5-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.5/0.4/0.2/0.2 A; dc output overall classification Level 3, rated 24 V/0.5 A or 28 V/0.5 A.

- Model HA5-1.5/OVP-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.4/0.4/0.2/0.2 A; dc output overall classification Level 3, rated 5 V/1.5 A.

- Model HAA15-0.8-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.77/0.65/0.35/0.33 A; dc outputs overall classification Level 3, rated +12 V/1.0 A or +15 V/0.8 A, -12 V/1.0 A or -15 V/0.8 A or -5 V/0.4 A.



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Master Contract: 150684 (LR 46516C)

Edition: 1

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-
- Model HAA24-0.6-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.77/0.65/0.35/0.33 A; dc outputs overall classification Level 3, rated +/-24 V/0.6 A
 - Model HAA5-1.5/OVP-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.53/0.46/0.24/0.24 A; dc outputs overall classification Level 3, rated +/-5 V dc/1.5 A.
 - Model HAA512-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.61/0.52/0.28/0.26 A; dc outputs overall classification Level 3, rated +5 V/2.0 A, 9 to 15 V/0.5 A
 - Model HAA524-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.7/0.6/0.3/0.3 A; dc outputs overall classification Level 3, rated +5 V/2.0 A, 18 to 24 V/0.3 A
 - Model HAD12-0.4-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.4/0.3/0.2/0.2 A; dc outputs overall classification Level 3, rated +12 V/0.4 A, -12 V/0.4 A
 - Model HAD15-0.4-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.5/0.4/0.2/0.2 A; dc outputs overall classification Level 3, rated +15 V/0.4 A, -15 V/0.4 A
 - Model HB12-1.7-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.6/0.5/0.3/0.3 A; dc output overall classification Level 3, rated +12 V/1.7 A
 - Model HB15-1.5-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.65/0.56/0.31/0.28 A; dc output overall classification Level 3, rated +15 V/1.5 A
 - Model HB2-3-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.45/0.38/0.2/0.2 A; dc output overall classification Level 3, rated +2 V/3.0 A
 - Model HB24-1.2-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.76/0.65/0.35/0.32 A; dc output overall classification Level 3, rated +24 V/1.2 A
 - Model HB28-1-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.72/0.62/0.34/0.31 A; dc output overall classification Level 3, rated +28 V/1.0 A
 - Model HB48-0.5-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.6/0.5/0.3/0.3 A; dc output overall classification Level 1, rated +48 V/0.5 A
 - Model HB5-3/OVP-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.6/0.5/0.3/0.3 A; dc output overall classification Level 3, rated +5 V/3.0 A
 - Model HTAA-16W-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.7/0.6/0.3/0.3 A; dc outputs overall classification Level 3, rated +5 V/2.0 A, 9 to 15 V/0.4 A, -9 to -15 V/0.4 A or -5 V/0.4 A



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Master Contract: 150684 (LR 46516C)

Edition: 1

Date: March 26, 2001

APPLICABLE REQUIREMENTS

- | | | |
|--------------------------------------|---|---|
| CAN/CSA C22.2 No. 950-95 | - | Safety of Information Technology Equipment, Including Electrical Business Equipment |
| ANSI/UL 1950 3 rd Edition | - | Safety of Information Technology Equipment, Including Electrical Business Equipment |

CONDITIONS OF ACCEPTABILITY

1. The enclosure provided with this equipment does not meet the applicable requirements for Fire or Electrical enclosures. Suitable enclosure to be provided in the end-use equipment.
2. 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 equipment.
3. The main isolation transformer (T1) is provided with Class F insulation.
4. The power supply was evaluated for Reinforced insulation between primary and secondary, and Basic insulation between primary and ground, based on min 250 V ac.
5. The power supply was evaluated as Class I equipment, continuous operation, pollution degree 2.
6. All secondary output circuits on all models, except HB48-1-A+, are SELV under normal and single fault conditions and are not hazardous energy levels.
7. Models may be followed by a suffix -XXX which can be any 3 digit number which designates factory wiring for a specific input voltage, terminal block for output connector, installation of overvoltage protection module, the wide range output models are set to a specific output voltage. The models may be provided with "optional" input and output harnesses.
8. Output currents are derated by 10% for operation at 50 Hz.
9. Maximum full load operating ambient temperature is 50°C.
10. Primary overcurrent protection required in accordance with manufacturer's instructions.

Certificate of Compliance

Certificate: 1195609

Master Contract: 150684 (LR 46516C)

Edition: 1

Date Issued: April 30, 2001

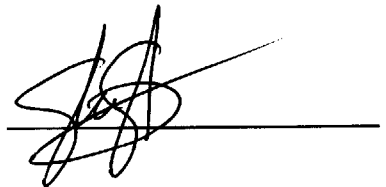
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2311 Statham Parkway
Oxnard, CA 93033
USA

*The products listed below are eligible to bear the CSA Mark shown
with adjacent indicators 'C' and 'US'*



Issued by: Shane Stevenson, AScT.

Signature:

A handwritten signature in black ink, appearing to be 'Shane Stevenson', is written over a horizontal line.

PRODUCTS

CLASS 5311 03/83 - POWER SUPPLIES - Component Type

Component power supplies for use with Information Technology Equipment, where the suitability of the combination is to be determined by CSA International.

- Model HBAA-40W-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.3/1.1/0.6/0.6 A; dc outputs overall classification Level 3, rated 5 V/3 A, +12 V/1 A or +15 V/0.8 A, -12 V/1 A or -15 V/0.8 A or -5 V/0.4 A.
- Models HBB15-1.5-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.4/1.2/0.7/0.6 A; dc outputs overall classification Level 3, rated +12 V/1.7 A or +15 V/1.5 A, -12 V/1.7 A or -15 V/1.5 A or -5 V/0.7 A.
- Models HBB512-A+, input rated 100/120/215/230-240V, 5/60 Hz, 1.2/1.0/0.6/0.5 A; dc outputs overall classification Level 3, rated 5 V/3 A, 9 to 15 V/1.25 A.
- Models HBB524-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.2/1.1/0.6/0.5 A; dc outputs overall classification Level 3, rated 5 V/3 A, 18 to 24 V/0.8 A.
- Model HBB5-3/OVP-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.0/0.9/0.5/0.5 A; dc outputs overall classification Level 3, rated +5 V/3 A, -5 V/3 A.

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognised to perform certification to U.S. Standards.



CSA INTERNATIONAL

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Master Contract: 150684 (LR 46516C)

Edition: 1

Date: April 30, 2001

- Models HC12-3.4-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.2/1.0/0.6/0.5 A; dc output overall classification Level 3, rated 12 V/3.4 A.
- Models HC15-3-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.3/1.1/0.6/0.6 A; dc output overall classification Level 3, rated 15 V/3 A.
- Model HC2-6-A+, input rated 100/120/215/230-240V, 50/60 Hz, 0.9/0.8/0.4/0.4 A; dc output overall classification Level 3, rated 2 V/6 A.
- Models HC24-2.4-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.4/1.2/0.7/0.6 A; dc output overall classification Level 3, rated 24 V/2.4 A.
- Models HC28-2-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.4/1.2/0.7/0.6 A; dc output overall classification Level 3, rated 28 V/2 A.
- Model HC48-1-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.1/1.0/0.5/0.5 A; dc output overall classification Level 1, rated 48 V/1 A.
- Models HC5-6/OVP-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.1/0.9/0.5/0.5 A; dc output overall classification Level 3, rated 5 V/6 A.
- Models CP1300, input rated 100/120/215/230-240V, 50/60 Hz, 1.2/1.1/0.6/0.5 A; dc outputs overall classification Level 3, rated 5 V/3 A, 26 V/0.5 A.

APPLICABLE REQUIREMENTS

- CAN/CSA C22.2 No. 950-95 - Safety of Information Technology Equipment, Including Electrical Business Equipment
- ANSI/UL 1950 3rd Edition - Safety of Information Technology Equipment, Including Electrical Business Equipment

CONDITIONS OF ACCEPTABILITY

1. The enclosure provided with this equipment does not meet the applicable requirements for Fire or Electrical enclosures. Suitable enclosure to be provided in the end-use equipment.
2. 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 equipment.
3. The main isolation transformer (T1) is provided with Class F insulation.
4. The power supply was evaluated for Reinforced insulation between primary and secondary, and Basic insulation between primary and ground, based on min 250 V ac.
5. The power supply was evaluated as Class I equipment, continuous operation, pollution degree 2.



CSA INTERNATIONAL

Certificate: 1195609

Master Contract: 150684 (LR 46516C)

Edition: 1

Date: April 30, 2001

6. All secondary output circuits on all models except HC48-1-A+ are SELV under normal and single fault conditions and are not hazardous energy levels.
7. Models may be followed by a suffix -XXX which can be any 3 digit number which designates factory wiring for a specific input voltage, terminal block for output connector, installation of overvoltage protection module, the wide range output models are set to a specific output voltage. The models may be provided with "optional" input and output harnesses. Primary overcurrent protection required in accordance with manufacturer's instructions.
8. Output currents are derated by 10% for operation at 50 Hz.
9. Maximum full load operating ambient temperature is 50°C.
10. Primary overcurrent protection required in accordance with manufacturer's instructions.

Certificate of Compliance

Certificate: 1195621

Master Contract: 150684 (LR 46516C)

Edition: 1

Date Issued: March 27, 2001

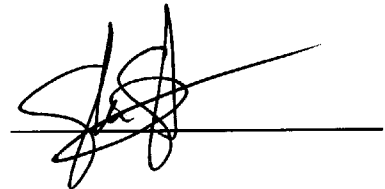
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2311 Statham Parkway
Oxnard, CA 93033
USA

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US'



Issued by: Shane Stevenson, AScT.

Signature:

A handwritten signature in black ink, appearing to be 'Shane Stevenson', written over a horizontal line.

PRODUCTS

CLASS 5311 03/83 - POWER SUPPLIES - Component Type

Component power supplies for use with Information Technology Equipment, where the suitability of the combination is to be determined by CSA International.

- Model CP131-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.3/2.0/1.1/1.0 A; dc outputs overall classification Level 3, rated 5 V/9A, +12 V/1.7 A or +15 V/1.5 A, -12 V/1.7 A or -15 V 1.5 A or -5 V/0.7 A.
- Model CP323-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.7/1.4/0.8/0.7 A; dc outputs overall classification Level 3, rated 5 V/2 A, 12 V/4 A.
- Model HCAA-60W-A+, input rated 100/120/215/230-240V, 50/60 Hz, 3.0/2.8/1.5/1.4 A; dc outputs overall classification Level 3, rated 5 V/6 A, +12 V/1.0 A or +15 V/0.8 A, -12 V/1.0 A or -15 V/0.8 A or -5 V/0.4 A.
- Model HCBB-75W-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.3/2.0/1.1/1.0 A; dc outputs overall classification Level 3, rated 5 V/6 A, +12 V/1.7 A or +15 V/1.5 A, -12 V/1.7 A or -15 V/1.5 A or -5 V/0.7 A.
- Model HCBB-105W-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.7/2.2/1.2/1.1 A; dc outputs overall classification Level 3, rated 5 V/3 A, +12 V/3.4 A or +15 V/3 A, -12 V/3.4 A or -15 V/3 A or -5 V/1.5 A with 14 cfm airflow; rated 5 V/3 A, +12 V/2.5 A or +15 V/2 A, -12 V/2.5 A or -15 V/2 A or -5 V/1 A convection cooled.

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognised to perform certification to U.S. Standards.



GSA INTERNATIONAL

Certificate: 1195621

Master Contract: 150684 (LR 46516C)

Edition: 1

Date: March 27, 2001

- Model HCC15-3-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.4/1.9/1.0/1.0 A; dc outputs overall classification Level 3, rated +12 V/3.4 A or +15 V/3 A, -12 V/3.4 A or -15 V/3 A or -5 V/1.4 A.
- Model HCC5-6/OVP-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.0/1.7/1.0/0.9 A; dc outputs overall classification Level 3, rated +5 V/6 A, -5 V/6 A with 14 cfm airflow; rated +5 V/4 A, -5 V/4 A convection cooled.
- Model HCC512-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.5/2.2/1.2/1.1 A; dc outputs overall classification Level 3, rated 5 V/6 A, 9 to 15 V/2.5 A with 14 cfm airflow; rated 5 V/4 A, 9 to 15 V/2.5 A convection cooled.
- Model HCC524-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.4/2.0/1.2/1.0 A; dc outputs overall classification Level 3, rated 5 V/6 A, 18 to 24 V/2 A with 14 cfm airflow; rated 5 V/4 A, 18 to 24 V/2 A convection cooled.
- Model HD12-6.8-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.8/2.4/1.3/1.2 A; dc output overall classification Level 3, rated 12 V/6.8 A.
- Model HD15-6-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.8/2.4/1.3/1.2 A; dc output overall classification Level 3, rated 15 V/6 A.
- Model HD2-12-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.5/1.3/0.7/0.7 A; dc output overall classification Level 3, rated 2 V/12/A.
- Model HD24-4.8-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.8/2.4/1.3/1.2 A; dc output overall classification Level 3, rated 24 V/4.8 A.
- Model HD28-4-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.5/2.1/1.2/1.1 A; dc output overall classification Level 3, rated 28 V/4 A.
- Model HD48-3-A+, input rated 100/120/215/230-240V, 50/60 Hz, 3.0/2.6/1.4/1.3 A; dc output overall classification Level 1, rated 48 V/3 A with 14 cfm airflow; rated 48 V/2.5 A convection cooled.
- Model HD5-12/OVP-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.3/1.9/1.0/1.0 A; dc output overall classification Level 3, rated 5 V/12 A.
- Model HN12-5.1-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.7/1.5/0.8/0.8 A; dc output overall classification Level 3, rated +12 V/5.1 A.
-
- Model HN15-4.5-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.7/1.5/0.8/0.8 A; dc output overall classification Level 3, rated +15 V/4.5 A.
- Model HN2-9-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.0/1.7/0.9/0.9 A; dc output overall classification Level 3, rated 2 V/9 A.



CSA INTERNATIONAL

Certificate: 1195621

Master Contract: 150684 (LR 46516C)

Edition: 1

Date: March 27, 2001

- Models HN24-3.6-A+ and CP1413, input rated 100/120/215/230-240V, 50/60 Hz, 2.1/1.8/0.9/0.9 A; dc output overall classification Level 3, rated +24 V/3.6 A.
- Model HN28-3-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.0/1.7/0.9/0.9 A; dc output overall classification Level 3, rated +28 V/3 A.
- Model HN5-9/OVP-A+, input rated 100/120/215/230-240V, 50/60 Hz, 1.6/1.3/0.7/0.7 A; dc output overall classification Level 3, rated +5 V/9 A.

APPLICABLE REQUIREMENTS

- CAN/CSA C22.2 No. 950-95 - Safety of Information Technology Equipment, Including Electrical Business Equipment
- ANSI/UL 1950 3rd Edition - Safety of Information Technology Equipment, Including Electrical Business Equipment

CONDITIONS OF ACCEPTABILITY

1. The enclosure provided with this equipment does not meet the applicable requirements for Fire or Electrical enclosures. Suitable enclosure to be provided in the end-use equipment.
2. 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 equipment.
3. The main isolation transformer (T1) is provided with Class F insulation.
4. The power supply was evaluated for Reinforced insulation between primary and secondary, and Basic insulation between primary and ground, based on min 250 V ac.
5. The power supply was evaluated as Class I equipment, continuous operation, pollution degree 2.
6. All secondary output circuits on all models except HB48-1-A+ are SELV under normal and single fault conditions and are not hazardous energy levels.
7. Models may be followed by a suffix -XXX which can be any 3 digit number which designates factory wiring for a specific input voltage, terminal block for output connector, installation of overvoltage protection module, the wide range output models are set to a specific output voltage. The models may be provided with "optional" input and output harnesses.
8. Output currents are derated by 10% for operation at 50 Hz.
9. Maximum full load operating ambient temperature is 50°C.
10. Primary overcurrent protection required in accordance with manufacturer's instructions.

Certificate of Compliance

Certificate: 1195624

Master Contract: 150684 (LR 46516C)

Edition: 1

Date Issued: April 30, 2001

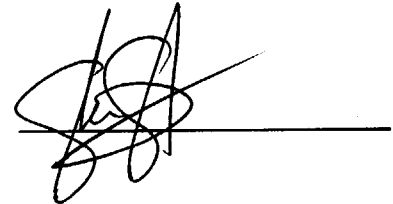
Issued to: **Condor D.C. Power Supplies Inc.**
2311 Statham Parkway
Oxnard, CA 93033
USA

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US'



Issued by: Shane Stevenson, ASCT.

Signature:

A handwritten signature in black ink, appearing to be 'Shane Stevenson', written over a horizontal line.

PRODUCTS

CLASS 5311 03/83 - POWER SUPPLIES - Component Type

Component power supplies for use with Information Technology Equipment, where the suitability of the combination is to be determined by CSA International.

- Model F5-25/OVP-A+, input rated 100/120/215/230-240V, 50/60 Hz, 3.8/3.1/1.7/1.6 A; dc output overall classification Level 3, rated 5 V/25 A with 14 cfm airflow.
- Model HDBB105W-A+, input rated 100/120/215/230-240V, 50/60 Hz, 3.0/2.5/1.4/1.3 A; dc outputs overall classification Level 3, rated 5 V/12 A, +12 V/1.7 A or +15 V/ 1.5 A, -12 V/1.7 A or -15 V/ 1.5 A or -5 V/0.7 A with 26 cfm airflow.
- Models HDD15-5-A+, input rated 100/120/215/230-240V, 50/60 Hz, 3.4/2.9/1.6/1.5 A; dc outputs overall classification Level 3, rated +12 V/5 A or +15 V/5 A, -12 V/5 A or -15 V/5 A with 14 cfm airflow.
- Models HE12-10.2-A+, input rated 100/120/215/230-240V, 50/60 Hz, 3.3/2.8/1.5/1.4 A; dc output overall classification Level 3, rated 12 V/10.2 A with 14 cfm airflow.
- Model HE15-9-A+, input rated 100/120/215/230-240V, 50/60 Hz, 3.7/3.1/1.6/1.5 A; dc output overall classification Level 3, rated 15 V/9 A with 14 cfm airflow.

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognised to perform certification to U.S. Standards.



CSA INTERNATIONAL

Certificate: 1195624

Master Contract: 150684 (LR 46516C)

Edition: 1

Date: April 30, 2001

- Models HE2-18-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.2/1.8/1.0/0.9 A; dc output overall classification Level 3, rated 2 V/18 A with 14 cfm airflow.
- Model HE24-7.2-A+, input rated 100/120/215/230-240V, 50/60 Hz, 3.9/3.3/1.8/1.6 A; dc output overall classification Level 3, rated 24 V/7.2 A with 14 cfm airflow.
- Model HE28-6-A+, input rated 100/120/215/230-240V, 50/60 Hz, 3.6/3.0/1.7/1.5 A; dc output overall classification Level 3, rated 28 V/6 A with 14 cfm airflow.
- Model HE48-4-A+, input rated 100/120/215/230-240V, 50/60 Hz, 4.0/3.4/1.9/1.7 A; dc output overall classification Level 1, rated 48 V/4 A with 14 cfm airflow.
- Models HE5-18/OVP-A+, input rated 100/120/215/230-240V, 50/60 Hz, 2.9/2.4/1.3/1.2 A; dc output overall classification Level 3, rated 5 V/18 A with 14 cfm airflow.

CONDITIONS OF ACCEPTABILITY

1. The enclosure provided with this equipment does not meet the applicable requirements for Fire or Electrical enclosures. Suitable enclosure to be provided in the end-use equipment.
2. 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 equipment.
3. The main isolation transformer (T1) is provided with Class F insulation.
4. The power supply was evaluated for Reinforced insulation between primary and secondary, and Basic insulation between primary and ground, based on min 250 V ac.
5. The power supply was evaluated as Class I equipment, continuous operation, pollution degree 2.
6. All secondary output circuits on all models except HB48-1-A+ are SELV under normal and single fault conditions and are not hazardous energy levels.
7. Models may be followed by a suffix -XXX which can be any 3 digit number which designates factory wiring for a specific input voltage, terminal block for output connector, installation of overvoltage protection module, the wide range output models are set to a specific output voltage. The models may be provided with "optional" input and output harnesses.
8. Output currents are derated by 10% for operation at 50 Hz.
9. Maximum full load operating ambient temperature is 50°C.
10. Primary overcurrent protection required in accordance with manufacturer's instructions.



CSA INTERNATIONAL

Certificate: 1195624

Master Contract: 150684 (LR 46516C)

Edition: 1

Date: April 30, 2001

APPLICABLE REQUIREMENTS

- CAN/CSA C22.2 No. 950-95 - Safety of Information Technology Equipment, Including Electrical Business Equipment
- ANSI/UL 1950 3rd Edition - Safety of Information Technology Equipment, Including Electrical Business Equipment

Demko Certificate

Product: Power Supplies
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: CONDOR
Model/Type ref.: See appendix
Rated current or power: See appendix
Rated voltage: See appendix, 50/60Hz
Insulation Class: Class I
Degree of protection: IPX0
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 60950-1:2001, as shown in the Test Report from Underwriters Laboratories Inc. with ref. No. E135803-A1-CB-1

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

Date of expiry: 2013-11-10

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, 2003-11-10


Karina Christiansen
Certification Manager

UL International Demko A/S

Lyskaer 8, P.O. Box 514
DK-2730 Herlev, Denmark
Telephone: +45 44856565
Fax: +45 44856500



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Laboratories Inc.®**

Appendix to Demko Certificate No. 136164-01

The Certificate covers the following:

136164-01-0001; HA15-0.9-A+; 100V, 0.5A or 120V, 0.4A or 215V, 0.2A or 230-240V, 0.2A,
136164-01-0002; HA2-1.5-A+; 100V, 0.4A or 120V, 0.2A or 215V, 0.2A or 230-240V, 0.2A,
136164-01-0003; HA24-0.5-A+; 100V, 0.5A or 120V, 0.4A or 215V, 0.2A or 0.2A 230-240V, 0.2A,
136164-01-0004; HA5-1.5/OVP-A+; 100V, 0.4A or 120V, 0.4A or 215V, 0.2A or 230-240V, 0-2A,
136164-01-0005; HB12-1.7-A+; 100V, 0.6A or 120V, 0.5A or 215V, 0.3A or 230-240V, 0.3A,
136164-01-0006; HB15-1.5-A+; 100V, 0.65A or 120V, 0.56A or 215V, 0.31 or 230-240V, 0.28A,
136164-01-0007; HB2-3-A+; 100V, 0.45A or 120V, 0.38A or 215V, 0.2A or 230-240V, 0.2A,
136164-01-0008; HB24-1.2-A+; 100V, 0.76A or 120V, 0.65A or 215V, 0.35A or 230-240V, 0.32A,
136164-01-0009; HB28-1-A+; 100V, 0.72A or 120V, 0.62A or 215V, 0.34A or 230-240V, 0.31A,
136164-01-0010; HB5-3OVP-A+; 100V, 0.6A or 120V, 0.5A or 215V, 0.3A or 230-240V, 0.3A,
136164-01-0011; HC12-3.4-A+; 100V, 1.2A or 120V, 1.0A or 215V, 0.6A or 230-240V, 0.5A,
136164-01-0012; HC15-3-A+; 100V, 1.3A or 120V, 1.1A or 215V, 0.6A or 230-240V, 0.6A,
136164-01-0013; HC2-6-A+; 100V, 0.9A or 120V, 0.8A or 215V, 0.4A or 230-240V, 0.4A,
136164-01-0014; HC24-2.4-A+; 100V, 1.4A or 120V, 1.2A or 215V, 0.7A or 230-240V, 0.6A,
136164-01-0015; HC28-2-A+; 100V, 1.4A or 120V, 1.2A or 215V, 0.7A or 230-240V, 0.6A,
136164-01-0016; HC5-6/OVP-A+; 100V, 1.1A or 120V, 0.9A or 215V, 0.5A or 230-240V, 0.5A,
136164-01-0017; HD12-6.8-A+; 100V, 2.8A or 120V, 2.4A or 215V, 1.3A or 230-240V, 1.2A,

Herlev, 2003-11-10


Karina Christiansen
Certification Manager

UL International Demko A/S

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DK 2730 Herlev Denmark
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Fax: +45 44856590



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Laboratories Inc.**

Appendix to Demko Certificate No. 136164-01

136164-01-0018; HD15-6-A+; 100V, 2.8A or 120V, 2.4A or 215V, 1.3A or 230-240V, 1.2A,
136164-01-0019; HD2-12-A+; 100V, 1.5A or 120V, 1.3A or 215V, 0.7A or 230-240V, 0.7A,
136164-01-0020; HD24-4.8-A+; 100V, 2.8A or 120V, 2.4A or 215V, 1.3A or 230-240V, 1.2A,
136164-01-0021; HD28-4-A+; 100V, 2.5A or 120V, 2.1A or 215V, 1.2A or 230-240V, 1.1A,
136164-01-0022; HD5-12/OVP-A+; 100V, 2.3A or 120V, 1.9A or 215V, 1.0A or 230-240V, 1.0A,
136164-01-0023; HN12-5.1-A+; 100V, 1.7A or 120V, 1.5A or 215V, 0.8A or 230-240V, 0.8A,
136164-01-0024; HN15-4.5-A+; 100V, 1.7A or 120V, 1.5A or 215V, 0.8A or 230-240V, 0.8A,
136164-01-0025; HN2-9-A+; 100V, 2.0A or 120V, 1.7A or 215V, 0.9A or 230-240V, 0.9A,
136164-01-0026; HN24-3.6-A+; 100V, 2.1A or 120V, 1.8A or 215V, 0.9A or 230-240V, 0.9A,
136164-01-0027; HN28-3-A+; 100V, 2.0A or 120V, 1.7A or 215V, 0.9A or 230-240V, 0.9A,
136164-01-0028; HN5-9/OVP-A+; 100V, 1.6A or 120V, 1.3A or 215V, 0.7A or 230-240V, 0.7A,
136164-01-0029; HE12-10.2-A; 100V, 3.3A or 120V, 2.8A or 215V, 1.5A or 230-240V, 1.4A,
136164-01-0030; HE15-9-A; 100V, 3.7A or 120V, 3.1A or 215V, 1.6A or 230-240V, 1.5A,
136164-01-0031; HE2-18-A; 100V, 2.2A or 120V, 1.8A or 215V, 1.0A or 230-240V, 0.9A,
136164-01-0032; HE24-7.2-A; 100V, 3.9A or 120V, 3.3A or 215V, 1.8A or 230-240V, 1.6A,
136164-01-0033; HE28-6-A; 100V, 3.6A or 120V, 3.0A or 215V, 1.7A or 230-240V, 1.5A,
136164-01-0034; HE5-18-OV-A; 100V, 2.9A or 120V, 2.4A or 215V, 1.3A or 230-240V, 1.2A,

The certificate has been issued on the basis of CB certificate (CB Test certificate) No. US/7661/UL, issued by Underwriters Laboratories Inc., dated 2003-11-04.

Herlev, 2003-11-10


Karina Christiansen
Certification Manager


UL International Demko A/S

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DK-2730 Herlev, Denmark
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Fax: +45 44856500



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**Underwriters
Laboratories Inc.**

Demko Certificate

Product: Built-in Power Supply, AC/DC
Manufacturer: SL Power Electronics Corp.
6050 King Drive, Bldg. A, Ventura, CA 93003, 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: Same as manufacturer
Trademark:  **CONDOR**
Model/Type ref.: See appendix
Rated current or power: See appendix
Rated voltage: See appendix
Insulation Class: I
Degree of protection: IP X0
Additional information: See appendix

A sample of the product has been tested and found in conformity with EN 60950-1:2001, as shown in the Test Report from Underwriters Laboratories Inc. with ref. No. E135803-A35-CB-1

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

Date of expiry: 2010-12-01

UL International Demko A/S 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 A/S, or for cables <DEMKO>. The name of UL International Demko A/S 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 A/S has to be informed in writing about any changes, in accordance with the "UL International Demko A/S Standard Terms and Conditions" for UL International Demko A/S 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, 2006-12-27


Karina Christiansen
Certification Manager

UL International Demko A/S

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Appendix to Demko Certificate No. 142408-01

Additional Information:

INPUT CURRENT RATINGS - Amps

Model	100V	120V	215V	230-240V
CP131-A+	2.3	2.0	1.1	1.0
CP323-A+	1.7	1.4	0.8	0.7
HAA15-0.8-A+	0.77	0.65	0.35	0.33
HAA24-0.6-A+	0.77	0.65	0.35	0.33
HAA5-1.5-OV-A+	0.53	0.46	0.24	0.24
HAA512-A+	0.61	0.52	0.28	0.26
HAA524-A+	0.7	0.6	0.3	0.3
HAD12-0.4-A+	0.5	0.4	0.2	0.2
HAD15-0.4-A+	0.5	0.4	0.2	0.2
HBAA40W-A+	1.3	1.1	0.6	0.6
HBB15-1.5-A+	1.4	1.2	0.7	0.6
HBB512-A+	1.2	1.0	0.6	0.5
HBB524-A+	1.2	1.1	0.6	0.5
HBB5-3-OV-A+	1.0	0.9	0.5	0.5
HCAA60W-A+	3.0	2.8	1.5	1.4
HCBB105W-A+	2.7	2.2	1.2	1.1
HCBB75W-A+	2.3	2.0	1.1	1.0
HCC15-3-A+	2.4	1.9	1.0	1.0
HCC512-A+	2.5	2.2	1.2	1.1
HCC524-A+	2.4	2.0	1.2	1.0
HCC5-6-OV-A+	2.0	1.7	1.0	0.9
HDDB105W-A+	3.0	2.5	1.4	1.3
HDCC150W-A+	4.4	3.8	2.1	1.9
HDD15-5-A+	3.4	2.9	1.6	1.5
HTAA-16W-A+	0.7	0.6	0.3	0.3
CP1803	2.0	1.7	1.0	0.9

Herlev, 2006-12-27


Karina Christiansen
Certification Manager

UL International Demko A/S

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Appendix to Demko Certificate No. 142408-01

Model	Case Code	Output Ratings
CP131-A+	NBB	5 V 9 A; +12 V 1.7 A or +15 V 1.5 A; -12 V 1.7 A or -15 V 1.5 A or -5 V 0.7 A
CP323-A+	B	12 V 4 A; 5 V 2 A
HAA15-0.8-A+	AA	+12 V 1 A or +15 V 0.8 A; -12 V 1 A or -15 V 0.8 A or -5 V 0.4 A
HAA24-0.6-A+	AA	±24 V 0.6 A
HAA5-1.5/OVP-A+	AA	±5 V 1.5 A
HAA512-A+	AA	5 V 2 A; 9-15 V 0.5 A
HAA524-A+	AA	5 V 2 A; 18-24 V 0.3 A
HAD12-0.4-A+	B	±12 V 0.4 A
HAD15-0.4-A+	B	±15 V 0.4 A
HBAA40W-A+	BAA	5 V 3 A; +12 V 1 A or +15 V 0.8 A; -12 V 1 A or -15 V 0.8 A or -5 V 0.4 A
HBB15-1.5-A+	BB	+12 V 1.7 A or +15 V 1.5 A; -12 V 1.7 A or -15 V 1.5 A or 5 V 0.7 A
HBB512-A+	BB	5 V 3 A; 9-15 V 1.25 A
HBB524-A+	BB	5 V 3 A; 18-24 V 0.8 A
HBB5-3/OVP-A+	BB	±5 V 3 A
HCAA60W-A+	D	5 V 6 A; +12 V 1 A or +15 V 0.8 A; -12 V 1 A or -15 V 0.8 A or -5 V 0.4 A
HCBB105W-A+	CBB	5 V 3 A; +12 V 2.5 A or +15 V 2 A; -12 V 2.5 A or -15 V 2 A or -5 V 1 A (+12 V 3.4 A or +15 V 3 A; -12 V 3.4 A or -15 V 3 A or -5 V 1.5 A with 14cfm airflow)
HCBB75W-A+	CBB	5 V 6 A; +12 V 1.7 A or +15 V 1.5 A; -12 V 1.7 A or -15 V 1.5 A or -5 V 0.7 A
HCC15-3-A+	CC	+12 V 3.4 A or +15 V 3 A; -12 V 3.4 A or -15 V 3 A or -5 V 1.4 A
HCC512-A+	CC	5 V 4 A (6 A with 14 cfm airflow); 9-15 V 2.5 A
HCC524-A+	CC	5 V 4 A (6 A with 14 cfm airflow); 18-24 V 2 A
HCC5-6/OVP-A+	CC	±5 V 4 A (6 A with 14 cfm airflow)
HTAA-16W-A+	AA	5 V 2 A; +9-15 V 0.4 A; -9 to -15 V 0.4 A or -5 V 0.4 A
CP1803	D	5 V 8 A; 5 V 2 A

Herlev, 2006-12-27


Karina Christiansen
 Certification Manager

UL International Demko A/S

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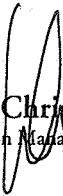


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Appendix to Demko Certificate No. 142408-01

The certificate has been issued on the basis of CB certificate (CB Test certificate) No. US/11064/UL, issued by Underwriters Laboratories Inc, dated 2006-12-11.

Herlev, 2006-12-27


Karina Christiansen
Certification Manager

UL International Demko A/S

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Laboratories Inc.®**

CERTIFICATE

No. B 04 08 14549 037



Holder of Certificate: Condor DC Power Supplies, Inc.

2311 Statham Parkway
Oxnard, CA 93033
USA

Certification Mark:



Product: Power supply

AC / DC Power Supply

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.: SI400305-117

Date, 2004-08-06



Page 1 of 3

CERTIFICATE
No. B 04 08 14549 037



Model(s): CP197-A+; CP1467; F5-25/OVP-A+;
F15-15-A+; F24-12-A+; F48-6-A+;
G5-35/OVP-A+; HB48-0.5-A+; HC48-1-A+;
HD48-3-A+; HE48-4-A+

Parameters:

Model CP197-A+:	
Rated Input Voltage:	100/120/215/230-240 V AC
Rated Input Current:	6.8/5.8/3.1/2.9 A
Rated Input Frequency:	50 / 60 Hz
DC Outputs:	5 V / 50 A
Protection Class:	I

Tested according to: EN 60950-1:2001

Production Facility(ies): 16784

**Attachment to Certificate B 04 08 14549 037
For Condor DC Power Supplies, Inc.**

Models specification:

- 2) CP1467, input rated 100/120/200/220/230-240 V AC, 50/60 Hz, 4.4/3.8/2.25/2.1/1.9 A;
DC outputs rated 5 V/12 A, ± 12 V/3.4 A or ± 15 V/3 A
- 3) F5-25/OVP-A+, input rated 100/120/215/230-240 V AC, 50/60 Hz, 3.8/3.1/1.7/1.6 A;
DC output rated 5 V/25 A
- 4) F15-15-A+, input rated 100/120/215/230-240 V AC, 50/60 Hz, 5.8/4.9/2.7/2.5 A;
DC output rated 12 V/16 A or 15 V/15 A
- 5) F24-12-A+, input rated 100/120/215/230-240 V AC, 50/60 Hz, 6.8/5.8/3.2/3.0 A;
DC output rated 12 V/16 A or 15 V/15 A
- 6) F48-6-A+, input rated 100/120/215/230-240 V AC, 50/60 Hz, 6.6/5.7/3.0/2.8 A;
DC output rated 48/6 A
- 7) G5-35/OVP-A+, input rated 100/120/215/230-240 V AC, 50/60 Hz, 5.0/4.3/2.4/2.2 A;
DC output rated 5 V/35 A
- 8) HB48-0.5-A+, input rated 100/120/215/230-240 V AC, 50/60 Hz, 0.6/0/5/0.3/0.3 A;
DC output rated 48 V/0.5 A
- 9) HC48-1-A+, input rated 100/120/215/230-240 V AC, 50/60 Hz, 1.1/1.0/0.5/0.5 A;
DC output rated 48 V/1 A
- 10) HD48-3-A+, input rated 100/120/215/230-240 V AC, 50/60 Hz, 3.0/2.6/1.4/1.3 A;
DC output rated 48 V/3 A
- 11) HE48-4-A+, input rated 100/120/215/230-240 V AC, 50/60 Hz, 4.0/3.4/1.9/1.7 A;
DC output rated 48 V/4 A

