DESCRIPTION

PRODUCT COVERED:

**USR, CNR - Component - Switching Power Supplies, Models NHC3011-5, NHC3011-6, NHC3011-8, NHC3021-5, NHC3021-8, NHC3011-C1004, NHC3011-S117, NHC3011-S119, NHC3011-S121 (All Models maybe provided with suffix G, P or SXXX, where X is any alphanumeric character or blank).**

ELECTRICAL RATINGS:

| | Input | | | Outputs (dc) | |
|---|---|---|---|---|---|
| Model | V | A | Hz | V | A |
| NHC3011-5 | 208-240 | 20 | 50/60 | 24 | 125 |
| NHC3011-6 | 208-240 | 20 | 50/60 | 28 | 107 |
| NHC3011-8 | 208-240 | 20 | 50/60 | 48 | 63 |
| NHC3011-C1004 | 208-240 | 20 | 50/60 | 32-48 | 62 |
| NHC3011-S117 | 208-240 | 20 | 50/60 | 32-48 | 62 |
| NHC3011-S119 | 208-240 | 20 | 50/60 | 42-58 | 50 |
| **NHC3011-S121** | **208-240** | **20** | **50/60** | **12-32.5** | **60** |
| NHC3021-5 | 208-240 | 20 | 50/60 | 24 | 125 |
| NHC3021-8 | 208-240 | 20 | 50/60 | 48 | 63 |

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

Special Considerations - The following items are considerations that were used when evaluating this product.

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

Use - For use only in (or with) complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

The component was submitted by the manufacturer for use in a maximum air ambient of 50°C and 70°C at 60 percent load and reversed air flow.

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

1. **These power supplies have been judged on the basis of the required spacings in the Standard for Safety of Information Technology Equipment, Part 1: General Requirements, CAN/CSA C22.2, No. 60950-1 * UL 60950-1, First Edition, which are based on IEC 60950-1, First Edition, Sub-Clause 2.10, which would cover the component itself if submitted for Listing.**

2. A suitable fire and electrical enclosure shall be provided in the end use.

3. The terminals and connectors are suitable for factory wiring only. The acceptability of those and the mating connectors and terminal blocks relative to the secure of insulating materials and temperature shall be considered in the end-use product.

4. The terminals and connectors are not suitable for field wiring.

5. **These power supplies were** evaluated for connection to the TN system wiring.

6. **The secondary outputs of all models** are considered SELV **and at hazardous energy levels**.

*

7. **These power supplies have been** evaluated for use in a 50°C ambient and 70°C at 60% load. Additional evaluation should be made if the power supplies are intended to be used in a higher elevated ambient.

8. All power isolation transformers and inductors employ a Class 180(H) electrical insulation system.

9. Consideration should be given to measuring the temperatures on power electronic components and transformation windings when the power supply is end-use product.

10. **These power supplies have been evaluated for use in Pollution Degree 2 environment.**

11. **These power supplies shall be properly bonded to the main protective earthing termination in the end product.**

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

Product Service

# CERTIFICATE

**No. B 08 03 24238 01034**

**Holder of Certificate:** **Power-One, Inc.**
740 Calle Plano
Camarillo, CA 93012-8583
USA

**Production Facility(ies):** 59929, 36080

**Certification Mark:**

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

**Model(s):** **NHC3011 and NHC3021 Series (see attachment)**
**Models may be followed by suffix P or G indicating ROHS version or SXXX; where P denotes remote programming of the output voltage/current and X indicates letters and/or numbers 0-9, denoting non safety critical options.**
**NHC3011-5, NHC3011-6, NHC3011-8, NHC3011-C1004, NHC3011-S117, NHC3011-S119, NHC3011-S121, NHC3021-5, NHC3021-8.**

**Parameters:**

| | |
|---|---|
| Rated Input Voltage: | 208 - 240 VAC |
| Rated Frequency: | 50 / 60 Hz |
| Rated Input Current: | 20 A |
| Rated DC Output: | Model depended, see attachment |
| Ta: | 50°C |
| Protection Class: | I |

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

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

**Test report no.:** 095-674134-300

**Date,** 2008-03-18



277867

# ATTACHMENT TO CERTIFICATE NO. B 08 03 24238 01034
## For Power-One Inc.

Product Service

## ELECTRICAL RATINGS:

| | Input (AC) | | | Outputs (DC) | |
|---|---|---|---|---|---|
| Model | V | A | Hz | V | A |
| NHC3011-5 | 208-240 | 20 | 50/60 | 24 | 125 |
| NHC3011-6 | 208-240 | 20 | 50/60 | 28 | 107 |
| NHC3011-8 | 208-240 | 20 | 50/60 | 48 | 63 |
| NHC3011-C1004, NHC3011-S117 | 208-240 | 20 | 50/60 | 32-48 | 62 |
| NHC3011-S119 | 208-240 | 20 | 50/60 | 42-58 | 50 |
| NHC3011-S121 | 208-240 | 20 | 50/60 | 12-32.5 | 60 |
| NHC3021-5 | 208-240 | 20 | 50/60 | 24 | 125 |
| NHC3021-8 | 208-240 | 20 | 50/60 | 48 | 63 |

Models may be followed by suffix P or G indicating ROHS version or SXXX; where P denotes remote programming of the output voltage/current and X indicates letters and/or numbers 0-9, denoting non-safety critical options.

## CONDITIONS OF ACCEPTABILITY:

When installing the equipment, all requirements of the specified standard must be met.

The following must be evaluated at end use:

1. A suitable fire enclosure.
2. A reliable ground (Protective Earth) connection.

Project Number: 095-674134-300

2008-03-18

IEC IECEE CB SCHEME

Ref. Certif. No.

**DE 3 - 52552M3**

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

# CB TEST CERTIFICATE
# CERTIFICAT D'ESSAI OC

| | |
|---|---|
| Product<br>Produit | Switching power supply unit<br>(AC/DC Switching Power Supply) |
| Name and address of the applicant<br>Nom et adresse du demandeur | Power-One, Inc.<br>740 Calle Plano<br>Camarillo, CA 93012-8583, USA |
| Name and address of the manufacturer<br>Nom et adresse du fabricant | Power-One, Inc., 740 Calle Plano, Camarillo, CA 93012-8583, USA |
| Name and address of the factory<br>Nom et adresse de l'usine | Amax Electronics, Wusha Xinan Industry Area, 523871 Changan, Dongguan City, Guangdong,, PEOPLE'S REPUBLIC OF CHINA<br>For further information please see attachment |
| Rating and principal characteristics<br>Valeurs nominales et caractéristiques principales | Input (AC): 208 - 240 VAC, 20 A, 50 / 60 Hz<br>Output (DC): Model depended, see attachment<br>Protection Class: I<br>Temperature, Ambient: 50°C<br><br>See Attachment for Additional Information. |
| Trade mark (if any)<br>Marque de fabrique (si elle existe) | Power-One |
| Model/type Ref.<br>Ref. de type | NHC3011 and NHC3021 Series<br>For further information please see attachment |
| Additional information (if necessary)<br>Information complémentaire (si nécessaire) | SMT |
| A sample of the product was tested and found to be in conformity with<br>Un échantillon de ce produit a été essayé et a été considéré conforme à la | IEC 60950-1:2001 |
| as shown in the Test Report Ref. No. which form part of this certificate<br>comme indiqué dans le Rapport d'essais numéro de référence qui constitue une partie de ce certificat | TÜV SÜD Product Service<br>095-674134-300 |

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme **National de Certification**

Date, 2008-03-20
CB 08 03 24238 01035

William A Wenthold

William Wenthold

TÜV SÜD Product Service

TÜV SÜD Product Service GmbH · Certification Body · Ridlerstrasse 65 · D-80339 München

CB-1 03.06

## Additional factory information:

Name and address of the factory 59929 Power-One, Ltd.
*Nom et adresse de l'usine*
Autopista Las Americas Km.22,
Zone Franca Las Americas,
11606 Santa Domingo,
Dominican Republic

**GENERAL INFORMATION:**

Switching power supply models NHC3011 and NHC3021 Series are component type power supplies provided with fan and metal enclosure, 3-U height. The output is floating with respect to the chassis and may be used as positive or negative polarity supply.

All models may be followed by suffix P or G; where G indicating ROHS version or SXXX; where P denotes remote programming of the output voltage/current and X indicates letters and/or numbers 0-9, denoting non safety critical options)

The models can be operated with their maximum rated power at maximum operating ambient of 50°C.

**ELECTRICAL RATINGS:**

| Model: | Input (AC): | | | Output (DC): | |
|---|---|---|---|---|---|
| | V | A | Hz | V | A |
| NHC3011-5 | 208 - 240 | 20 | 50 / 60 | 24 | 125 |
| NHC3011-6 | 208 - 240 | 20 | 50 / 60 | 28 | 107 |
| NHC3011-8 | 208 - 240 | 20 | 50 / 60 | 48 | 63 |
| NHC3011-C1004, NHC3011-S117 | 208 - 240 | 20 | 50 / 60 | 32 – 48 | 62 |
| NHC3011-S119 | 208 - 240 | 20 | 50 / 60 | 42 - 58 | 50 |
| NHC3011-S121 | 208 - 240 | 20 | 50 / 60 | 12-32.5 | 60 |
| NHC3021-5 | 208 - 240 | 20 | 50 / 60 | 24 | 125 |
| NHC3021-8 | 208 - 240 | 20 | 50 / 60 | 48 | 63 |

Date: 2008-03-20
Report No.: 095-674134-300
CB 08 03 24238 01035


William A Wenthold
**William A. Wenthold**

TÜV SÜD Product Service

# *Declaration of Conformity*

## *CE MARKING*

We, **Power-One, Inc.,740 Calle Plano, Camarillo, CA. 93012 USA**
declare under our sole responsibility that the products;

**Power Supply Model**: **NHC3000 Series**

to which this declaration relates, is/are in compliance with the following document(s):

Quality Standard(s): **ISO 9001, EN 29001**

Directive: **DIR 73/23/EEC, Low Voltage Directive**

Product Safety Standard(s): **EN 60950-1: 2001**
**IEC 60950-1: 2001**
(Licensed by a Notified Body to the European Union )

These component level power supplies are intended exclusively for inclusion within other equipment by an industrial assembly operation or by professional installers per the Installation Instructions provided with the power supplies. The power supply is considered Class I and must be connected to a reliable earth grounding system.

| | | |
|---|---|---|
| | **Camarillo, Ca.** | **June 02, 2004** |
| *(Manufacturer)* | *(Place)* | *(Date)* |

Robert P. White Jr.
Product Safety Director

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