



# Certificate of Compliance

**Certificate:** 2317193 (LR 38879C)

**Master Contract:** 173688

**Project:** 2317193

**Date Issued:** June 18, 2010

**Issued to:** Power-One, Inc  
740 Calle Plano  
Camarillo, CA 93012  
USA

Attention: Editha Vergara

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



*Eugen Velea*

Issued by: Eugen Velea

## **PRODUCTS**

**CLASS 5311 11** - POWER SUPPLIES - Component Type(CSA 60950-1-07-2nd Ed)

**CLASS 5311 91** - POWER SUPPLIES - Component Type(UL 60950-1-2nd Ed)Certified to U.S.Stds

AC/DC Switching Power Supply, model LPM Series; rated Input: 100-240 Vac, 15-7 A, 50-60 Hz; Output: maximum 1200 W or Input: 200-240 Vac, 10-8 A, 50-60 Hz; Output: Maximum 1500 W; specified as follows:

LPM 6 15 - A A B B C D - X

I II III IV V

I – Model Series: LPM

II – Number of slots: 6

III – Maximum Output Power:

15 = 1500 W

IV – Output Modules:

| Module | Nominal Output | Voltage Range | Maximum Output | Maximum Output |
|--------|----------------|---------------|----------------|----------------|
|--------|----------------|---------------|----------------|----------------|



**Certificate:** 2317193 (LR 38879C)

**Master Contract:** 173688

**Project:** 2317193

**Date Issued:** June 18, 2010

---

|   | Voltage (Vdc)          | (Vdc)      | Current (A) | Power (W) |
|---|------------------------|------------|-------------|-----------|
| A | 5                      | 2.0 to 5.2 | 50          | 250       |
| B | 12                     | 5.2 to 15  | 20          | 250       |
| C | 24                     | 15 to 32   | 10          | 250       |
| D | 48                     | 32 to 54   | 8           | 250       |
| 0 | Blank Panel Slot Cover |            |             |           |

V - Optional Suffixes (denoting non-safety critical options)

Conditions of Acceptability:

1. The power supply is to be installed only by trained service personnel, according to manufacturer installation instructions.
2. Evaluated for use in Pollution Degree 2 Environment, for a maximum ambient temperature of 40 °C.
3. Temperature tests shall be considered for specific installation conditions in the end system.
4. Evaluated as Class I (earthed equipment). Reliable connection to protective earth shall be provided in the end use installation.
5. Spacings were evaluated for an operating altitude of max 10,000 ft (3048 m), based on IEC-60664-1 altitude correction factor.
6. Evaluated for connection to AC power with a branch circuit protector rated max 50 A. If used on a branch circuit with higher rating, additional testing shall be considered.
7. The front bezel has been evaluated and found compliant with requirements for FIRE, MECHANICAL and ELECTRICAL enclosure. Overall enclosure suitability is to be determined in the end system.
8. Output circuits in all modules are SELV and at hazardous energy levels (240 VA).
9. The input connector is not acceptable for field wiring; it is only intended for connection to the mating connectors of internal wiring inside the end system.
10. The output connector was evaluated and may be used for hot-swap operation.
11. Limited Short Circuit Test was conducted at 1000 A on Protective Earth trace from the input connector to chassis mounting screw.



**Certificate:** 2317193 (LR 38879C)

**Master Contract:** 173688

**Project:** 2317193

**Date Issued:** June 18, 2010

---

**APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No 60950-1-07 - Information Technology Equipment - Safety - Part 1: General Requirements

ANSI/UL 60950-1, Second Edition - Information Technology Equipment - Safety - Part 1: General Requirements



## *Supplement to Certificate of Compliance*

**Certificate:** 2317193

**Master Contract:** 173688

*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

---

| <b>Project</b> | <b>Date</b>   | <b>Description</b>                                      |
|----------------|---------------|---|
| 2317193        | June 18, 2010 | AC/DC Switching Power Supply Model LMP615 Series (C/US) |



America

# CERTIFICATE

No. B 10 07 24238 01352

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

**Production Facility(ies):** 44727, 49489, 72172

**Certification Mark:**



**Product:** Converter  
 ( AC/DC Converter )

**Model(s):** LPM615 Series  
 For further information please see attachment.

**Parameters:**

|                   |    |                              |
|-------------------|----|------------------------------|
| Rated Input:      |    | 100-240 Vac, 15-7 A, 50-60Hz |
|                   | or | 200-240 Vac, 10-8 A, 50-60Hz |
| Rated Outputs:    |    | 1200 W maximum               |
|                   | or | 1500 W maximum               |
| Protection Class: |    | I                            |

**Tested according to:** EN 60950-1/11:2009

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. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:** 095-1000015185-000

**Date,** 2010-07-09  
 Page 1 of 3









America

**ATTACHMENT TO CERTIFICATE NO. B 10 07 24238 01352  
FOR POWER-ONE, INC**

## CONDITIONS OF ACCEPTABILITY

1. The power supply is to be installed only by trained service personnel, according to manufacturer installation instructions.
2. Evaluated as Class I (earthed equipment). The power supply shall be properly bonded to the main protective earthing terminal in the end system.
3. Temperature tests shall be considered for specific installation conditions in the end system.
4. The front bezel has been evaluated and found compliant with requirements for FIRE, MECHANICAL and ELECTRICAL enclosure. Overall enclosure suitability is to be determined in the end system.
5. All modules output circuits are SELV and at hazardous energy level.
6. The input connector is not acceptable for field wiring; only intended for connection to mating connectors of internal wiring inside the end system.
7. The input connector is suitable for hot swap operation. Connector Current Interruption test was conducted for 100 cycles.
8. The equipment was tested on a listed 50 A branch circuit. If used on a branch circuit with a greater rating, additional testing shall be considered.
9. Limited Short Circuit Test was conducted at 1000 A on Protective Earth trace from the input connector to chassis mounting screw.
10. Production-Line Dielectric Voltage Withstand (Electric Strength) and Grounding (Protective Earthing) Continuity Tests are performed on all models.
11. The component was submitted by the manufacturer for use in a maximum air ambient of 50°C.
12. The power supplies have been evaluated for use in a Pollution Degree 2 environment.

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  
Produit

Converter  
( AC/DC Converter )

Name and address of the applicant  
Nom et adresse du demandeur

Power-One, Inc.  
740 Calle Plano  
Camarillo, CA 93012-8583, USA

Name and address of the manufacturer  
Nom et adresse du fabricant

Power-One, Inc., 740 Calle Plano, Camarillo, CA 93012-8583,  
USA

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

Power-One s.r.o., ArealZTS Dubnica n.Vahom c.924, 01841  
Dubnica nad Vahom, SLOVAK REPUBLIC  
For further information please see attachment

Rating and principal characteristics  
Valeurs nominales et caractéristiques principales

Rated Input: 100-240 Vac, 15-7 A, 50-60Hz  
or 200-240 Vac, 10-8 A, 50-60Hz  
Rated Outputs: 1200 W maximum  
or 1500 W maximum  
Protection Class: I

Trade mark (if any)  
Marque de fabrique (si elle existe)

Power-One

Model/type Ref.  
Ref. de type

LPM615 Series  
For further information see attachment.

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

SMT

A sample of the product was tested and found  
to be in conformity with

IEC 60950-1:2005

Un échantillon de ce produit a été essayé et a été  
considéré conforme à la

as shown in the Test Report Ref. No.  
which form part of this certificate  
comme indiqué dans le Rapport d'essais numéro  
de référence qui constitue une partie de ce  
certificat

095-1000015185-000

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, 2010-07-13  
CB 10 07 24238 01351



William Wenthold



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

Product Service



**Additional factory information:**

Name and address of the factory 49489 Arrow Electronics  
*Nom et adresse de l'usine* 1955 E. Sky Harbor Circle N.,  
 Phoenix, AZ 85034  
 USA

72172 Avnet  
 60 S. Mckemy Avenue,  
 Chandler, AZ 85226  
 USA

MODEL NOMENCLATURE

LPM 6 15 - A A B B C D - X  
 I II III IV V

I - Product Series: LPM

II – Number of slots: 6

III – Maximum Output Power:

15 = 1500 W

IV- Output Module

| Module | Nominal Output Voltage (Vdc) | Voltage Range (Vdc) | Maximum Output Current (A) | Maximum Output Power (W) |
|--------|------------------------------|---------------------|----------------------------|--------------------------|
| A      | 5                            | 2.0 to 5.2          | 50                         | 250                      |
| B      | 12                           | 5.2 to 15           | 20                         | 250                      |
| C      | 24                           | 15 to 32            | 10                         | 250                      |
| D      | 48                           | 32 to 54            | 8                          | 250                      |
| 0      | Blank Panel Slot Cover       |                     |                            |                          |

VI - Optional Suffixes (denoting non-safety critical options)

Date: 2010-07-13  
 Report No.: 095-1000015185-000  
 CB 10 07 24238 01351  
 Page 2 of 2

*William A. Wenthold*  
 William A. Wenthold



TÜV SÜD Product Service GmbH • Certification Body • Ridlerstrasse 65 • D-80339 München • 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: LPM615 Series**

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

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

Directive: **DIR 2006/95/EC, Low Voltage Directive**

Product Safety Standard(s): **EN 60950-1/A11:2009**

**IEC 60950-1: 2005**

(Licensed by a Notified Body to the European Union )

This component level power supply is 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.



*(Manufacturer)*

Robert P. White Jr.  
Product Safety Director

**Camarillo, Ca.**

*(Place)*

**July 09, 2010**

*(Date)*