



America

# CERTIFICATE

No. B 15 10 57396 361

**Holder of Certificate:** XP Power LLC.



15641 Red Hill Avenue, Suite 100  
Tustin CA 92780  
USA

**Production Facility(ies):** 93389

**Certification Mark:**



**Product:** Power supply  
(Switching Power Supply)

**Model(s):** IMM02xxSyyy, IMM02xxDyyy  
(where xx is 05 or 12 representing input voltage;  
yyy is 03, 3V3, 05, 12 or 15 representing output voltage)

**Parameters:**

Rated Input Voltage:	4.5 -9 VDC or 9-18 VDC
Rated Output Ratings:	See attachment for output ratings
Protection Class:	Class I or Class II at end use
Elevation for use:	0-5000 m above sea level
Temperature, Ambient:	60°C with full load

**Tested according to:** EN 60601-1:2006/A12:2014

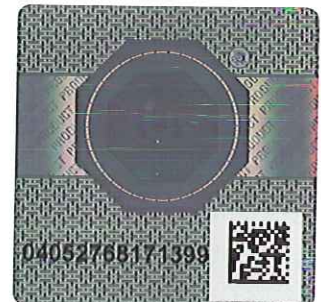
The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

**Test report no.:** 095-72108730-000

**Valid until:** 2020-10-18

**Date,** 2015-10-22

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*John*



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## ATTACHMENT TO CERTIFICATE NO. B 15 10 57396 361 FOR XP POWER LLC

### DC / DC CONVERTER

#### Approved models and Rated Outputs:

IMM02xxSyyy and IMM02xxDyyy,  
xx=05: nominal input voltage range 4.5-9 Vdc;  
xx=12: nominal input voltage range 9-18 Vdc;  
yyy = 03 or 3V3, 05, 12 or 15 representing output voltage.

#### Output Ratings @ 60°C:

IMM02xxS3V3: 3.3 Vdc, 606 mA;  
IMM02xxS05: 5 Vdc, 400 mA;  
IMM02xxS12: 12 Vdc, 167 mA;  
IMM02xxS15: 15 Vdc, 133 mA

IMM02xxD03: 3.3 Vdc, 303 mA; -3.3 Vdc, 303 mA;  
IMM02xxD05: 5 Vdc, 200 mA; -5 Vdc, 200 mA;  
IMM02xxS12: 12 Vdc, 83 mA; -12 Vdc, 83 mA;  
IMM02xxS15: 15 Vdc, 66 mA; -15 Vdc, 66 mA.

#### Conditions of Acceptability:

##### The models require:

When installed in an end-product, consideration must be given to the following:

- This power supply has been judged on the basis of the required creepage and clearances for 1 MOPP based on a working voltage of 250Vrms, 354Vpk between input and output circuits at an altitude of 5000m in accordance with Standard for Medical Electrical Equipment, Part 1: General requirements for basic safety and essential performance IEC 60601-1, Edition 3.1, Sub-clause 8.9, which covers the end-use product for which the component was designed.
- The unit is a DC/DC converter and not evaluated for the separation to SUPPLY MAINS; suitable MAINS separation shall be provided during final installation.
- Temperature, Leakage Current, Protective Earthing Dielectric Voltage Withstand and Interruption of the Power Supply tests should be considered as part of the end product evaluation.
- The output circuit has not been evaluated for connecting to Applied Parts. For end products intended to connect to Applied Parts, suitable evaluation should be considered.
- Consideration should be given to measuring the temperature on power electronic components and transformer windings when the power supply is installed in the end-use equipment. The end-use product shall ensure that the power supply is used within its ratings.
- The end-product evaluation shall ensure that the requirements related to Accompanying Documents, Clause 7.9 are met.
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- End product Risk Management Process to include consideration of requirements specific to the Power Supply.
- End product Risk Management Process to consider the need for simultaneous fault condition testing.
- End product to determine the acceptability of risk in conjunction to insulation to resistance to heat, moisture, and dielectric strength.
- End product to determine the acceptability of risk in conjunction to the Leakage of Liquids as part of the power supply.
- End product to determine the acceptability of risk in conjunction to the selection of components as it pertains to the intended use, essential performance, transport, storage conditions as part of the power supply.
- The products were tested on a 20 A branch circuit. If used on a branch circuit greater than this, additional testing may be necessary.
- Scope of Power Supply evaluation defers the following clauses to the be determined as part of the end product: Clause 7.5 (Safety Signs), Clause 7.9 (Accompanying Documents), Clause 9 (ME Hazard), Clause 10 (Radiation), Clause 14 (PEMS), Clause 16 (ME Systems) and Clause 17 (Electromagnetic Compatibility).