



America

CERTIFICATE

No. B 16 12 57396 464

Holder of Certificate: XP Power LLC.



15641 Red Hill Avenue, Suite 100
Tustin CA 92780
USA

Production Facility(ies):

93389

Certification Mark:



Product:

**Converter
(DC/DC Converter)**

Model(s):

IMA01xxSyyy, IMA01xxDyyy
(where xx is 05, 12, 15 or 24 representing input voltage;
yyy is 03, 3V3, 05, 09, 12 or 15 representing output
voltage)

Parameters:

Rated Input Voltage:	4.5 -5.5 VDC, 10.8-13.2 VDC, 13.5-16.5 VDC, 21.6-26.4 VDC
Protection Class:	End product dependent
Elevation for use:	0-5000 m above sea level
Temperature, Ambient:	75°C max with full load

See attachment for output ratings and
Conditions of Acceptability.

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

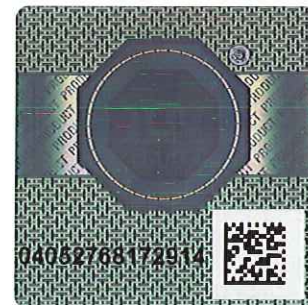
The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties.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

Test report no.: 095-72121740-000

Valid until: 2021-12-04

Date, 2016-12-08

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DC / DC CONVERTER

Approved models, Input and Output Ratings:

IMM01xxSyyy and IMM01xxDyyy,
xx=05: nominal input voltage range 4.5-5.5 Vdc;
xx=12: nominal input voltage range 10.8-13.2 Vdc;
xx=15: nominal input voltage range 13.5-16.5 Vdc;
xx=24: nominal input voltage range 21.6-26.4 Vdc;

yyy = 3V3 or 03, 05, 12 or 15 representing output voltage.

Input and Output Ratings @ 75°C:

IMA01xxS3V3: 3.3 Vdc, 300 mA;
IMA01xxD03: ± 3.3 Vdc, 150 mA;
IMA01xxS05: 5 Vdc, 200 mA;
IMA01xxD05: ± 5 Vdc, 100 mA;
IMA01xxS09: 9 Vdc, 111mA;
IMA01xxD09: ± 9 Vdc, 55.5 mA;
IMA01xxS12: 12 Vdc, 83.3 mA;
IMA01xxD12: ± 12 Vdc, 41.6 mA;
IMA01xxS15: 15 Vdc, 66.7 mA;
IMA01xxD15: ± 15 Vdc, 33.3mA.

Conditions of Acceptability:

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

- This component dc to dc converter 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.
- 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.



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- 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.
- 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.
- The label has not been evaluated, the need to conduct the durability of marking and legibility of marking tests should be determined in the end product.
- The product is a component for building in, the accessibility shall be determined as part of the end product investigation.
- Potting compound not evaluated as an isolation barrier.
- 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).