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America

CERTIFICATE

No. B 12 02 57396 137

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

1241 East Dyer Road, Suite 150
Santa Ana CA 92705
USA

Production Facility(ies): 61661, 77041

Certification Mark:

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

Model(s): **JHM10DYY, JHM10SYY**
Model name may be followed by "-SG01" not related to safety.

Parameters:

DC Input Voltage:	4.5-9 V or 9-18 V or 18-36 V (model depended)
Rated Output Ratings:	See attachment
Temperature, Ambient:	50°C max.
Elevation for use:	0-2000 m above sea level.

See attachment for additional information.

Tested according to: EN 60601-1:2006

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.: 095-1201305-000

Date, 2012-02-13

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ATTACHMENT TO CERTIFICATE NO. B 12 02 57396 137 FOR XP POWER

DC / DC converter

General Product information:
The unit is a DC/DC Converter to be used as part of Medical Electrical Equipment, and is intended to provide Two MOPP between DC input circuits to DC output circuit.
The unit is provided with top and bottom plastic enclosure. All components inside the unit are mounted on PWB.

Model JHM10DYY Series is identical to Model JHM10SYY Series with except it is provided with two output instead of one.

JHM10XXS05: 5 Vdc, 2000mA
JHM10XXS12: 12 Vdc, 833mA
JHM10XXS15: 15 Vdc, 666mA
JHM10XXD05: 5 Vdc, 1000mA; 5 Vdc, 1000mA
JHM10XXD12: 12 Vdc, 420mA; 12 Vdc, 420mA
JHM10XXD15: 15 Vdc, 333mA; 15 Vdc, 333mA
Where XX can be 05, 12, 15 and denotes nominal input voltage ranges as follows:
05 = 4.5-9Vdc
12 = 9-18Vdc
24 = 18-36 Vdc
Additional suffix "-SG01" maybe provided but not related to safety.

Model Differences:
All models within a series are identical except for transformer windings, inductance and MOSFETs, and output ratings.

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FOR XP POWER

Conditions of Acceptability:

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 in the Third Edition of the Standard for Medical Electrical Equipment, IEC 60601-1, 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 product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tmra) of 50°C at Full Load.

- 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.

- Considerations to the applied parts requirement, to be conducted as end-product

- 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.