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TÜV SÜD America

CERTIFICATE

No. B 14 12 57396 312

Holder of Certificate: **XP Power LLC.**
1241 East Dyer Road, Suite 150
Santa Ana CA 92705
USA

Production Facility(ies): 59319, 71712

Certification Mark:

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

Model(s): **HPU1K5PSxx-M**
(where xx can be number 12-48 to indicate the output voltage, may be followed by "SF" for single fusing option)

Parameters:

Rated Input Voltage:	100 - 240 V AC,
Rated Frequency:	50 / 60 Hz
Rated Input Current:	16.5 A
Rated Output Voltage:	See attachment
Protection Class:	Class I at end use
Temperature, Ambient:	50°C at full rated output load, 70°C at half rated output load.
Elevation for Use:	0 - 3000 m

See attachment for further information.

Tested according to: EN 60601-1/A1:2013

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.: SI1409800-113

Valid until: 2019-12-11

Date, 2014-12-16

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UCB_F_12.02 2012-02

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ATTACHMENT TO CERTIFICATE NO. B 14 12 57396 312 FOR XP POWER LLC

POWER SUPPLY

Models covered are open frame power supplies intended to be used in Medical Electrical Equipment. Units are intended for building in Class I end-products.

Approved models and Rated Outputs:

Model Number	V1 Output		
	V dc (VDC)	Low-V (100-180 V ac input)	High-V (180-240 V ac Input)
HPU1K5PS12-M	10.1 to 13.5	100A; 1200 W max	
HPU1K5PS15-M	13.6 to 17	80.0 A, 1200 W max	
HPU1K5PS18-M	17.1 to 21	66.6 A, 1200 W max	
HPU1K5PS24-M	21.1 to 26	50 A; 1200 W max	62.5 A; 1500 W max
HPU1K5PS28-M	26.1 to 31	42.80 A, 1200 W max	53.57 A, 1500 W max
HPU1K5PS33-M	31.1 to 33	36.36 A, 1200 W max	45.45 A, 1500 W max
HPU1K5PS36-M	33.1 to 42	33.3 A, 1200 W max	41.6 A, 1500 W max
HPU1K5PS48-M	42.1 to 54	25.0 A; 1200 W max	31.25 A; 1500 W max

Conditions of Acceptability:

When installing the equipment, all requirements of the standards and the manufacturer's specifications must be met.

The models require:

- A suitable electrical and fire enclosure must be provided in the end use equipment.
- This power supply was evaluated with Two MOPP between Primary and Secondary; One MOPP primary and Earth.
- This power supply has been evaluated as a continuous operation, ordinary equipment and has not been evaluated for use in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide. The output circuits have not been evaluated for direct patient connection (Type B, BF or CF).
- The available voltage for the secondary outputs does not exceed 25 Vac or 60 Vdc, under normal and single fault conditions.
- The output connectors are not acceptable for field connections; they are only intended for connection to mating connectors of the end-use equipment.
- Proper bonding to the end-product main protective earthing terminal is required when the power supply is installed in end product.
- Repeat of leakage current testing and consideration of non-frequency weighted leakage test shall be considered in the end product application.

(Continued)

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FOR XP POWER LLC

- The end product shall ensure the requirements related to accompanying documents, clause 7.9.
- Models provided with suffix SF only provided with one line side fuse. Consideration should be made in the end-use product to determine the need of double pole fusing.
- The product was not investigated to the following standards or clauses: Biocompatibility (ISO 10993-1), Clause 14, Programmable Electronic Systems, Electromagnetic Compatibility (IEC 60601-1-2).

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CERTIFICATE

No. B 13 06 57396 220

Holder of Certificate: **XP Power LLC.**
1241 East Dyer Road, Suite 150
Santa Ana CA 92705
USA

Production Facility(ies): 59319, 71712

Certification Mark:

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

Model(s): **HPU1K5PSXX (where XX can be number 12-48 to indicate the output voltage, can be optionally followed by "-SF" for single fusing)**

Parameters:

Rated Input Voltage:	100-240 V AC
Rated Frequency:	50/60 Hz
Rated Input Current:	16.5 A
Rated Output Voltage:	See attachment
Protection Class:	I at end use
Temperature, Ambient:	50°C at full rated output load 70°C at half rated output load
Elevation for use:	0-3048 m above sea level

For further information, please see attachment.

Tested according to: EN 60950-1/A12:2011

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.: SI1305205114-000

Date, 2013-06-06

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ATTACHMENT TO CERTIFICATE NO. B 13 06 57396 220 FOR XP POWER LLC

POWER SUPPLY

HPU1K5PSXX Output			
Model Number	V1 Output		
	V dc (VDC)	Low-V (100-180 V ac input)	High-V (180-240 V ac Input)
HPU1K5PS12	12	100A; 1200 W max	
HPU1K5PS24	24	50A; 1200 W max	62.5A; 1500 W max
HPU1K5PS48	48	25A; 1200 W max	31.25A; 1500 W max

Conditions of Acceptability:

When installing the equipment, all requirements of the standards and the manufacturer's specifications must be met.

These models require:

1. When installed in an end-product, a suitable main disconnect device shall be provided in the end product.
2. Proper fire and electrical enclosure are required at end-product.
3. Reliable earth connection shall be provided at the end use installation.
4. The power supply is to be installed only by trained service personnel, according to the manufacturer's installation instruction.
5. The power supplies have a fuse in the neutral of the primary circuit. The proper warning to service persons should be marked on the end product.
6. The output has energy level higher than 240VA, additional compliance at end use.