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Product Service

C E R T I F I C A T E

No. B 057396 0628 Rev. 00

Holder of Certificate: **XP Power LLC.**
15641 Red Hill Avenue, Suite 100
Tustin CA 92780
USA

Certification Mark:

Product: **Power supply**

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. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 092-72163251-000

Valid until: 2025-10-01

Date, 2020-10-08

(Ping He)

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Model(s): HPA1K5PSXX Series

Parameters:

Rated Input:	HPA1K5PS24 – Input: 100-180 VAC, 16 A, 50/60 Hz or 180-240 VAC, 10 A, 50/60 Hz HPA1K5PS48 – Input: 100-180 VAC, 16 A, 50/60 Hz or 180-240 VAC, 10 A, 50/60 Hz
Output Ratings:	See attachment for output ratings and conditions of acceptability
Protection Class:	Class I or II end use
Ambient Temperature:	50°C with 100% load, 70°C with 50% load.
Elevation for Use:	0 – 3000 m See below for further information

Models Similarities and Output Rating:

The power supplies in the series are differentiated by the output voltage and current ratings, number of turns of primary/secondary windings in the Transformers (T101 (Power)) and minor differences in the secondary circuit components and PWB layout.
See below for Model Ratings Table for 50°C below:
Model HPA1K5PS24 –
Input: 100-180 V~, 16 A, 50/60 Hz, Output: 24 V, 62.5 A MAX, 1400 W;
180-240 V~, 10 A, 50/60 Hz, Output: 24 V, 62.5 A MAX, 1500 W
Model HPA1K5PS48 –
Input: 100-180 V~, 16 A, 50/60 Hz, Output: 48 V, 31 A MAX, 1400 W;
180-240 V~, 10 A, 50/60 Hz, Output: 48 V, 31 A MAX, 1500 W

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Conditions of Acceptability:

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

The models require:

- The component shall be considered for compliance with the Marking (clause 7) and Separation (clause 8) requirements as part of the end use application evaluation.
- The power supply was evaluated for use in 50°C ambient at Full Rated Output and 50% of the Rated Output in 70°C ambient.
- Consideration shall 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.
- Non-frequency weighted leakage test was not conducted and shall be considered in the end product application.
- This power supply was evaluated with Two MOPP between Primary and Secondary; One MOPP primary and Earth; 0 MOPP between Secondary 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 an aesthetic mixture with air, oxygen, or nitrous oxide. The output circuits have not been evaluated for direct patient connection (Type B, BF or CF).
- The maximum investigated branch circuit rating is: 20 A
- The Electric Strength Test conducted on this power supply was based upon a maximum working voltage of: Primary-Earthed Dead Metal: 237 Vrms, 364 Vpk; Primary-SEC: 274 Vrms, 700 Vpk
- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJY2 insulation system with the indicated rating greater than Class A (105°C): T101, T100, T3 (Class F, 155°C)
- Printed Wiring Board rated 130°C
- The models with suffix -SF are to be provided with a single fuse.
- Fire/ Mechanical/ Electrical Enclosure to be provided as part of the end-product.
- 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).

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

Production Facility(ies): 059319, 071712, 089850, 059061

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