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Product Service

C E R T I F I C A T E

No. B 057396 0632 Rev. 01

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.: 095-72163453-100

Valid until: 2024-07-06

Date, 2023-02-03

(Adrian Rabago Valenzuela)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

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Model(s): HPA1K5PSXX Series

Where XX can be 24, 36, 48, or 60 which represents rated output voltage. May also be provided with additional suffix "SF" or "-M".

Brand Name: **XP**

Parameters:

Rated Input:	100-180 VAC, 16 A, 50/60 Hz or 180-240 VAC, 10 A, 50/60 Hz
Output Ratings:	See next page.
Protection Class:	Class I at end use.
Degree of Protection:	IPX0
Ambient Temperature:	100% rated load at 50°C, 75% rated load at 60°C, 50% rated load at 50°C
Maximum Altitude	5000 m

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SWITCHING POWER SUPPLY
Model Differences
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:

OUTPUT V1:
Model HPA1K5PS24:
24Vdc (0-24), 62.5 A, 1500 W (for Input rated: 180-240 Vac)
1400 W (for Input rated: 100-180 Vac)
Model HPA1K5PS36:
36Vdc (0-36), 41.7 A Max, 1500 W (for Input rated: 180-240 Vac)
1400 W (for Input rated: 100-180 Vac)
Model HPA1K5PS48:
48Vdc (0-48), 31 A Max, 1500 W (for Input rated: 180-240 Vac)
1400 W (for Input rated: 100-180 Vac)
Model HPA1K5PS60:
60Vdc (0-60), 25 A Max, 1500 W (for Input rated: 180-240 Vac)
1400 W (for Input rated: 100-180 Vac)
All models: Output V2 Standby: 5 VDC, 2 A
Suffix "SF" indicates single fuse provided in the line side of the primary. Suffix “-M” is identical to HPA1K5PSXX except for model designation for marketing purposes.

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Conditions of Acceptability

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

- The following product-line tests are conducted for this product: Electric Strength
- The following output circuits are at ES1 energy levels: All Outputs
- The following output circuits are at PS2 energy levels: 5 Vsb
- The following output circuits are at PS3 energy levels: All Outputs except for 5Vsb.
- The maximum investigated branch circuit rating is: 20 A
- The investigated Pollution Degree is: 2
- Proper bonding to the end-product main protective earthing termination is: Required (Class I)
- An investigation of the protective bonding terminals has been conducted
- The following input terminals/connectors must be connected to the end-productsupply neutral: AC N
- The following end-product enclosures are required: Mechanical, Fire, Electrical
- 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 (Power),

  T100 (Driver), T3 (Bias), T1, T2 (Current) are Class F (155°C).
- When installed in a Class I end product, the power supply shall be mounted in a manner that provides the minimum required Clearance between the primary side of power supply and protectively earthed accessible conductive parts.
- A suitable main disconnect device shall be provided in the end product.
- For models without suffix "SF": The power supplies covered by this report have a fuse in the neutral of the primary circuit. The need for a marking to warn a service person of the hazards associated with double pole/neutral fusing shall be considered in the end product.
- Consideration to repeating the "Prospective Touch Voltage and Touch Current Test" should be given in the end-product evaluation.
- The power supplies in this report have been subject to Capacitance Discharge testing. Additionally, all associated component safeguards have been assessed to the applicable requirement in Annex G.10. Additional testing should not be needed if directly connected to mains e.g. using an appliance inlet, wiring terminals, etc.

Tested according to: EN 62368-1:2014/A11:2017

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