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Product Service

C E R T I F I C A T E

No. B 057396 0556 Rev. 01

Holder of Certificate: **XP Power LLC.**
340 Commerce, Suite 100
Irvine CA 92602
USA

Certification Mark:

Product: **Power supply**
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, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 7191330405-14-TR

Valid until: 2026-01-07

Date, 2024-06-27

(Kim Hock Teo)

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

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Model(s): ECP225PSXX-Y (where XX can be any number between 12 and 48 designating the output voltage, -Y can be -A or blank to represent additional 5V standby output), may also be provided with suffix "SF" or "3X5"

Brand Name: **XP**

Parameters:

Rated Input: 100-240 Vac
Rated Input Current: 3A
Rated Input Frequency: 50/60 Hz
DC Output Ratings: See table for output ratings
Elevation for use: 0-5000 m above sea level
Protection Class: Class I determined in end product or Class II
Maximum temperature, ambient: 50°C with 100% rated output; 70°C for 50% load

General Product information:

The product is a AC/DC switching mode power supply with open-frame type, and it is intended for building-in from factory installation as a component of the end product Information Technology Equipment (ITE).

Rated Outputs for Models:

Model Number	OUTPUT RATING				
	Voltage (VDC)	Convectional Cooling		Forced Air Cooling	
		Max Current @ 50°C, 100% load (A)	Max Current @ 70°C, 50% load (A)	Max Current @ 50°C, 100% load (A)	Max Current @ 70°C, 50% load (A)
ECP225PS12	12	12.5	6.25	18.75	9.38
ECP225PS15	15	10.0	5.0	15.0	7.5
ECP225PS24	24	6.25	3.13	9.38	4.69
ECP225PS28	28	5.36	2.68	8.04	4.02
ECP225PS48	48	3.1	1.55	4.69	2.35

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Technical Considerations:

- The product is intended for use on the following power systems : TN
- The equipment disconnect device is considered to be : N/A - To be provided as an element of the end product.
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of : 50°C for 100% load. 70°C for 50% load (See Enclosure-Miscellaneous: De-rating Curve for additional details)
- The power supply series covered by this report employ Double/Reinforced Insulation between Primary and Secondary circuits.
- Power supplies covered by this report were evaluated for both Class I and Class II (double insulated). Double insulated symbol is optionally provided. See Conditions of Acceptability for insulation required for Class II. Earthing symbol may only be provided for Class I power supplies.
- The unit has two cooling condition: 1) External fan at 10 CFM applied to power supply input side with inward air-flow direction from 5 cm distance between fan and the unit; 2) Convection cooling. The maximum continuous power supply output (Watts) relies on forced air cooling.
- The clearance distances have additionally been assessed for suitability up to 5000 m elevation (1.48 correction factor as per IEC 60664-1, Table A2

Engineering 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 end-product Electric Strength Test is to be based upon a maximum working voltage of : 2500Vpk (Mains Transient Voltage)
- The following output circuits are at ES1 energy levels : All circuits
- The following output circuits are at PS3 energy levels : All circuits
- The maximum investigated branch circuit rating is : 16 A
- The investigated Pollution Degree is : 2
- Proper bonding to the end-product main protective earthing termination is: Required when installed in a Class I end product.
- The following end-product enclosures are required : Fire, Electrical, Mechanical
- 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) : TR1 - Class B (130)
- The power supply was evaluated to be used at altitudes up to : "5,000 m

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

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