



Product Service

CERTIFICATE

No. B 057396 0874 Rev. 01

Holder of Certificate: **XP Power LLC.**
340 Commerce, Suite 100
Irvine CA 92602
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, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 7191302260-20-TR

Valid until: 2026-01-07

Date, 2024-09-09

(Kim Hock Teo)

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Model(s):

ECP150PS12-XE0358B, ECP150PS15-XA1014A,
ECP150PSxx
(where 'xx' can be any number between 12 and 48
designating the output voltage, may also be provided with
suffix "SF")

Brand Name:

XP

Parameters:

Input Voltage	100-240 VAC
Input Frequency	50/60 Hz
Input Current	2.5 A
Protection Class	Class I or Class II at end use
Degree of Protection	PD2
Ambient Temperature	50°C for 100% rated output 70°C for 50% rated output

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Rated Output for Models:

Model Number	Convictional Cooling		Forced Air	
	Output voltage (VDC)	Current (A)	Output voltage (VDC)	Current (A)
ECP150PS12	12	8.33	12	12.5
ECP150PS15	15	6.67	15	10
ECP150PS24	24	4.17	24	6.25
ECP150PS28	28	3.5	28	5.4
ECP150PS48	48	2.08	48	3.1
ECP150PS12-XE0358B	12	8.33	12	12.5
ECP150PS15-XA1014A	15	6.67	15	10
Max Power Convection: 100W Max Power Forced: 150W Fan Supply (All Models): 12 VDC, 0.5 A				

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 (T_{ma}) permitted by the manufacturer's specification of : 50°C for 100% rated output. 70°C for 50% rated output.
- 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/reinforced insulated). Double insulated symbol is optionally provided. See Conditions of Acceptability for insulation required for Class II. Earthing symbol shall 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

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Engineering Conditions of Acceptability:

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

- The following output circuits are at ES1 energy levels: All Outputs
- The following output circuits are at PS2 energy levels: 12V DC Fan Output
- The following output circuits are at PS3 energy levels: All Outputs
- The investigated Pollution Degree is: 2
- Proper bonding to the end-product main protective earthing termination is: Required when installed in Class I end products.
- An investigation of the protective bonding terminals has not been conducted
- The following input terminals/connectors must be connected to the end-product supply neutral : AC-N (CN1)
- The following end-product enclosures are required: Electrical, Fire, 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) : L1, L2, L3, and TR1 - Class 130(B); L4 - Class 155(F); TR1 for Model ECP150PS12-XE0358B - Class 155 (F)
- When installed in a Class I end product, the power supply shall be mounted in a manner that sufficient clearance and creepage distance are provided between the primary side of power supply and protectively earthed accessible conductive parts.
- When installed in a Class II end product, the power supply shall be mounted on insulating posts, in a manner that sufficient clearance and creepage distance are provided between the power supply and any accessible conductive parts.
- The equipment is provided with a fuse in both the Line and Neutral of the primary circuit, unless provided with suffix "SF" to indicate only one fuse provided in the Line. Cautionary markings for service persons to be considered in the end-product.
- Primary side heat sinks are floating and considered live. They should not be accessible in the end-product.
- Prospective Touch Current and Voltage testing to be conducted in the end-product evaluation.
- The equipment is subject to Capacitance Discharge testing.
- The power supply will be considered Class II only when protection against electric shock does not rely on Basic Insulation and provided with sufficient spacings between primary parts of the power supply to secondary or accessible parts in the end product. Class II units have no reliance upon protective earthing and shall not be marked as such.

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