



Product Service

# CERTIFICATE

No. B 057396 0431 Rev. 02

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

**Certification Mark:**



**Product:** **Switching power supply unit**  
**AC / DC switching 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](http://www.tuvsud.com/ps-cert)

**Test report no.:** 095-72112141105-200

**Valid until:** 2024-10-08

**Date,** 2024-03-08

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**Model(s):**

**ECP40USxx Series**  
(where xx can be 05, 12, 15, 18, 24, 30 or 48 indicating output voltage)

**Brand Name: XP**

**Parameters:**

Rated Input Current: 100-240 V AC,  
Rated Input Frequency: 50/60 Hz  
Rated Input Current: 1.0 A  
Protection Class: End product dependent  
Temperature, Ambient: 50°C with 100% rated output  
70°C with 50% rated output  
Elevation for use: 0-3000 m above sea level

**Approved models and Rated Output**

Model Number	OUTPUT RATING		
	Voltage (VDC )	Maximum Current (A)	Output Power
ECP40US05	5.0	6.0	30
ECP40US12	12.0	3.34	40
ECP40US15	15.0	2.67	40
ECP40US18	18.0	2.22	40
ECP40US24	24.0	1.67	40
ECP40US30	30.0	1.34	40
ECP40US48	48.0	0.84	40



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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:

- A suitable electrical and fire enclosure must be provided in the end use equipment.
- This power supply was evaluated with One MOPP or Two MOOP between Primary and Secondary; One MOPP or One MOOP between primary and Earth. Additional MOPP between Primary and Secondary shall be considered in the end product.
- When installed in end product, the clearance and creepage distance between the hazardous circuits and accessible parts shall meet the standard(s) requirements. Hi-pot test, touch current test and ground bond test (if applicable) shall be conducted at end product if applicable. If installed in Class I end product, unit to be properly earthed.
- 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 end product shall ensure that the requirements related to accompanying documents, clause 7.9 are met.
- Q1 Heatsink considered live and should not be earthed.
- Scope of Power Supply evaluation defers the following clauses to the be determined as part of the end product: Clause 7.5 (Safety Signs), Clause 7.9 (Accompanying Documents), Clause 9 (ME Hazard), Clause 10 (Radiation), Clause 14 (PEMS), Clause 16 (ME Systems).
- 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).
- Scope of Power Supply evaluation excludes the following: Patient applied parts clauses: 4.6, 7.2.10, 8.3, 8.5.2, 8.5.5, 8.7.4.7-8.7.4.9, 8.9.1.15; Battery related clauses: 7.3.3, 15.4.3; Hand Control related clauses: 8.10.4; Oxygen related clauses: 11.2.2; Fluids related clauses: 11.6.2 – 11.6.4; Sterilization clause: 11.6.7; Biocompatibility Clause: 11.7 (ISO 10993); Motor related clauses: 13.2.13.3, 13.4; Heating Elements related clause: 13.2; Flammable Anaesthetic Mixtures Protection: Annex G.

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