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Product Service

C E R T I F I C A T E

No. B 057396 0470 Rev. 02

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 and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 095-72195780C-000

Valid until: 2029-01-08

Date, 2024-01-15

(Antony Young-Taylor)

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

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Model(s): **ECS100US12-B-XE0399, ECS100USxx-By**
(where xx can be number 12 to 48 to indicate the main output voltage, y can be blank or “SF” for single fuse)

Brand Name: **XP**

Parameters:

Rated Input Voltage: 100-240 VAC
Rated Input Current: 1.9 A
Rated Input Frequency: 50/60 Hz
Protection Class: Class I or Class II at end use
Temperature, Ambient: Convection cooling: 50ºC at 80% load, 70ºC at 40% load
10 CFM force cooling: 50ºC at 100% load, 70ºC at 50% load
Elevation for Use: 0 - 3000 m

Approved Models and Output Ratings:

Model Number	OUTPUT RATING		
	Voltage (VDC)	Maximum Current (A)	Maximum Output Power (W)
ECS100US12-B-XE0399	12.0	8.34	100
ECS100US12-B	10.1 – 13.5	8.3	100
ECS100US15-B	13.6 – 17	6.7	100
ECS100US18-B	17.1 – 21	5.5	100
ECS100US24-B	21.1 – 26	4.2	100
ECS100US28-B	26.1 – 31	3.6	100
ECS100US33-B	31.1 – 33	3.0	100
ECS100US36-B	33.1 – 42	2.8	100
ECS100US48-B	42.1 – 54	2.1	100

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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:

- Suitable Fire/Mechanical/Electrical enclosure shall be provided as part of the end product.
- This power supply was evaluated with Two MOPP between primary and secondary; One MOPP primary and Earth; One MOPP between secondary and Earth for Class I application; Functional Insulation between secondary and floated earth trace for class II application.
- The end-product Electric Strength Test is to be based upon a maximum working voltage of Primary- SELV: 240 Vrms, 541Vpk; Primary to Ground: 244Vrms, 353Vpk.
- Temperature, Leakage Current, Protective Earthing, Dielectric Voltage Withstand, and Interruption of the Power Supply tests should be considered as part of the end product evaluation.
- The output circuits have not been evaluated for direct patient connection (Type B, BF or CF).
- The output connectors are not acceptable for field connections, they are only intended for connection to mating connectors of the end use equipment.
- Proper bonding to the end-product main protective earthing terminal is required when the power supply is installed in the Class I end product.
- When installed in end product, the clearance and creepage distance between hazardous voltage part of the power supply and accessible parts shall meet the standard requirements. Hi-pot test, touch current, leakage current test and ground bond test (for Class I end product) shall be conducted at end product.
- 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), additional evaluation shall be conducted at end use.

Tested according to: EN 60601-1:2006/A2:2021

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