



Product Service

# CERTIFICATE

No. B 057396 0459 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, 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.:** 7191329786-01-TR

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

**Date,** 2024-04-30

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**Model(s):**

**ECS65USxx, ECS65US15-XE1008**

(where xx can be number 12 to 48 to indicate the main output voltage, may also be provided with suffix "SF" and optional "B" and/or "C", with or without "-").

**Brand Name:**

**XP**

**Parameters:**

Rated Input Voltage: 100-240 VAC (models without "C" option)  
160-240 VAC (models with "C" option)

Rated Input Current: 1.2 A

Rated Input Frequency: 50/60 Hz

Protection Class: I or II end use

Temperature, Ambient: 50°C with 100% rated output power  
70°C with 50% rated output power

Elevation for Use: 0 - 4000 m above sea level

**Approved models and output ratings:**

Model Number	OUTPUT RATING		
	Output Voltage (VDC)	Maximum Current (A)	Maximum output Power (W)
ECS65US12	10.1 to 13.5	5.4	65
ECS65US15	13.6 to 17	4.3	65
ECS65US18	17.1 to 21	3.4	65
ECS65US24	21.1 to 26	2.7	65
ECS65US28	26.1 to 31	2.3	65
ECS65US33	31.1 to 33	2.0	65
ECS65US36	33.1 to 42	1.8	65
ECS65US48	42.1 to 54	1.4	65
ECS65US12-BC	10.1 to 13.5	4.33	52
ECS65US15-XE1008	15	3.3	49.5

**Suffix:**

SF: indicates single fuse provided in the line side of the primary.

B: indicates unit provided with optional EMI Inductor, L2.

C: indicates unit provided with optional cover kit and different input voltage range.

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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 Two MOPP between Primary and Secondary; One MOPP between primary and Earth/Secondary Reference Conductor; and One MOPP between Secondary and Earth/ Secondary Reference Conductor.
- 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).
- Repeating leakage current testing and consideration of non-frequency weighted leakage current test (Clause 8.7.3e) shall be considered in the end product application.
- The end product should ensure that the requirements related to accompanying documents, clause 7.9, are met.
- The output connectors are not acceptable for field connections; they are only intended for connection to mating connectors of the end-use equipment.
- The maximum investigated branch circuit rating is: 20 A.
- Proper bonding to the end-product main protective earthing terminal is required when the power supply is installed in the Class I end product.
- Primary side heat sinks are floating and considered live, they shall not be accessible in the end-product.
- When installed in end product, the clearance and creepage distance between the related circuitry of the power supply and accessible parts shall meet the standard(s) requirements. Hi-pot test, touch current test and ground bond test (for Class I end product) shall be conducted at end product.
- 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).

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