



Product Service

CERTIFICATE

No. B 057396 0301 Rev. 03

Holder of Certificate: **XP Power LLC.**
15641 Red Hill Avenue, Suite 100
Tustin CA 92780
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.: 095-72141141110-200

Valid until: 2027-01-24

Date, 2022-05-20


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Model(s):

ECS60Usxx

(where xx can be number 05 to 48 to indicate the main output voltage, may be also followed by suffix “-SF” for single fuse, “-C” for cover and chassis and/or “-B” for level B radiated EMI. “-” is optional, or suffix -XT1744)

Brand Name:

XP

Parameters:

Input Voltage: 100-240VAC
Input Frequency: 50/60Hz
Input Current: 1.2A
Output Voltage: See output ratings below
Output Current: See output ratings below
Ambient Temperature: 50°C with maximum output power
70°C with half maximum output power
Elevation for Use: 3000 m

Approved models and rated outputs:

Model Number	OUTPUT RATING		
	Output Voltage (VDC)	Maximum Current (A)	Maximum output Power (W)
ECS60US05	4.1 to 6	8.0	40
ECS60US12	10.1 to 13.5	5.0	60
ECS60US15	13.6 to 17	4.0	60
ECS60US18	17.1 to 21	3.33	60
ECS60US24	21.1 to 26	2.50	60
ECS60US28	26.1 to 31	2.14	60
ECS60US33	31.1 to 33	1.82	60
ECS60US36	33.1 to 42	1.7	60
ECS60US48	42.1 to 54	1.25	60

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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 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).
- The available voltage for the secondary outputs does not exceed 25 Vac or 60 Vdc, under normal and single fault conditions.
- The output connectors are not acceptable for field connections; they are only intended for connection to mating connectors of the end-use equipment.
- Repeat of leakage current testing shall be considered in the end product application.
- 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 end product shall ensure the requirements related to accompanying documents, clause 7.9.
- 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