



Product Service

# CERTIFICATE

No. B 057396 0603 Rev. 00

**Holder of Certificate:** **XP Power LLC.**  
15641 Red Hill Avenue, Suite 100  
Tustin CA 92780  
USA

**Certification Mark:**



**Product:** **Power supply**  
**(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. See also notes overleaf.

**Test report no.:** 095-72158812111-000

**Valid until:** 2025-05-04

**Date,** 2020-05-06 ( Ping He )



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**Model(s):** ECS100USxx  
 (where xx can be number 12 to 48 to indicate the main output voltage, may be also followed by suffix "SF" for single fuse with or without "-")

**Brand Name:** XP

**Parameters:**

Rated Input Voltage: 100-240 VAC,  
 Rated Input Current: 1.9 A  
 Rated Input Frequency: 50/60 Hz  
 Rated Output Ratings: See below  
 Protection Class: I or II at end use  
 Temperature, Ambient: 50°C for maximum output power with 10 CFM force cooling,  
 70°C with half maximum output power with 10 CFM force cooling.

Elevation for Use: 0 - 3000 m  
 See below for further information

**Output Rating:**

Model Number	OUTPUT RATING (With 10 CFM fan)		
	Output Voltage (VDC )	Maximum Current (A)	Maximum output Power (W)
ECS100US12	10.1 to 13.5	8.3	100
ECS100US15	13.6 to 17	6.7	100
ECS100US18	17.1 to 21	5.5	100
ECS100US24	21.1 to 26	4.2	100
ECS100US28	26.1 to 31	3.6	100
ECS100US33	31.1 to 33	3.0	100
ECS100US36	33.1 to 42	2.8	100
ECS100US48	42.1 to 54	2.1	100

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A4 / 07.17



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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.
- 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 power supply was evaluated for use in 50°C ambient at Full Rated Output with 10CFM fan and 50% of the Rated Output in 70°C ambient. Additionally, the unit was evaluated for a max. output of 80W at 50°C and 40W at 70°C with convection cooling.
- 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

**Production Facility(ies):** 089850, 059319, 071712, 059061

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A4 / 07.17