



America

# CERTIFICATE

No. B 14 12 57396 302

Holder of Certificate: **XP Power LLC.**



1241 East Dyer Road, Suite 150  
Santa Ana CA 92705  
USA

Production Facility(ies):

59319, 71712

Certification Mark:



Product:

Power supply  
(Power supply)

Model(s):

ECS25USxx, ECS45USxx, ECS45US05  
(where xx can be number 12 to 48 to indicate the main output voltage, may be also followed by suffix "SF" or "-C" or both.)

Parameters:

Rated Input Voltage:	100-240 V AC
Rated Input Current:	0.9 A (ECS45USxx, ECS45US05) 0.6 A (ECS25USxx)
Rated Input Frequency:	50/60 Hz
Rated Output Ratings:	See attachment
Protection Class:	I
Temperature, Ambient:	50°C with maximum output power 70°C with half maximum output power
Elevation for use:	0-3000 m
	See attachment for further information.

Tested according to: EN 60601-1/A1:2013

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.: SI14409800-118

Valid until: 2019-12-09

Date, 2014-12-10

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FOR XP POWER LLC

**POWER SUPPLY**

**Approved models and output ratings:**

Model Number	OUTPUT RATING		
	Output Voltage (VDC)	Maximum Current (A)	Maximum output Power (W)
ECS45US05	4.1 to 6	6.0	30
ECS45US12	10.1 to 13.5	3.75	45
ECS45US15	13.6 to 17	3.00	45
ECS45US18	17.1 to 21	2.5	45
ECS45US24	21.1 to 26	1.90	45
ECS45US28	26.1 to 31	1.61	45
ECS45US33	31.1 to 33	1.36	45
ECS45US36	33.1 to 42	1.25	45
ECS45US48	42.1 to 54	0.95	45

Model Number	OUTPUT RATING		
	Output Voltage (VDC)	Maximum Current (A)	Maximum output Power (W)
ECS25US12	10.1 to 13.5	2.08	25
ECS25US15	13.6 to 17	1.67	25
ECS25US18	17.1 to 21	1.39	25
ECS25US24	21.1 to 26	1.04	25
ECS25US28	26.1 to 31	0.89	25
ECS25US33	31.1 to 33	0.76	25
ECS25US36	33.1 to 42	0.69	25
ECS25US48	42.1 to 54	0.52	25

Suffix "SF" indicates units provided with a single fuse provided in the line side of the primary. Suffix "-C" indicates unit provided with cover and chassis. Only class i units are provided with cover and chassis.

**Conditions of Acceptability:**

When installing the equipment, all requirements of the standards and the manufacturer's specifications must be met.

**The models require:**

- Fire/ Mechanical/ Electrical Enclosure to 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/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).



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- 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.
- Heat sink 1 was considered floating live and should not be connected to earth 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 shall be mounted on insulating post when installed in a Class II end-product.
- The "floating" mounting hole shall be mounted on insulating post or properly earthed for Class I 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).