



America

CERTIFICATE

No. B 14 01 57396 246

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



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

Production Facility(ies): 72220, 71712

Certification Mark:



Product: Power supply
(Power Supply)

Model(s): ECP180PSXX
(where XX can be number 12 to 48 to indicate the main output voltage, may be also followed by suffix "SF" for single fuse)

Parameters:

Rated Input Voltage:	100-240 V AC,
Rated Input Current:	2.5 A
Rated input frequency:	50/60 Hz
Rated Output Ratings:	See attachment
Protection Class:	Class I or Class II depend on end use
Temperature, Ambient:	50°C with maximum output power 70°C with half maximum output power.
Elevation for use	0-5000 m above sea level
See attachment for additional information	

Tested according to: EN 60601-1:2006

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.: SI1400205-000

Date, 2014-02-04

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ATTACHMENT TO CERTIFICATE NO. B 14 01 57396 246 FOR XP POWER LLC

POWER SUPPLY

General Product information:

Models covered in this report are component type AC/DC switching power supplies intended for use in Medical equipment. They are power supplies for building-in.

Approved Models

Model Number	Convection Cooling					Forced Air Cooling				
	V1	A1@ 50°C	A1@ 70°C	V2 Fan	A2 Fan	V1	A1@ 50°C	A1@ 70°C	V2 Fan	A2 Fan
ECP180PS12	12V	10A	5A	12V	0.5A	12V	15A	7.5A	12V	0.5A
ECP180PS15	15V	8A	4A	12V	0.5A	15V	12A	5A	12V	0.5A
ECP180PS24	24V	5A	2.5A	12V	0.5A	24V	7.5A	5A	12V	0.5A
ECP180PS28	28V	4.3A	2.15A	12V	0.5A	28V	6.43A	3.22A	12V	0.5A
ECP180PS36	36V	3.33A	1.67A	12V	0.5A	36V	5A	2.5A	12V	0.5A
ECP180PS48	48V	2.5A	1.25A	12V	0.5A	48V	3.75A	1.88A	12V	0.5A

Model number can be optionally followed by:

"-SF": model provided with single pole fusing (default: double fusing);

Model Differences:

All models are similar. The differences exist in the main transformer T1, and some minor secondary components for different rated output voltage ranges.

Additional Information

The clearance distances have additionally been assessed for suitability up to 5000 m elevation (1.29 correction factor from Table 8 of IEC 60601-1, Third Ed.).

The need for the additional testing and evaluation shall be determined in the end product investigation.

The nameplate markings provided are considered representative of the entire series.

The power supply series covered by this report employ 2 Methods of Patient Protection (MOPP) between Primary and Secondary circuits.



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Condition of Acceptability:

The component shall be installed in compliance with the enclosure, mounting, marking, spacing and separation requirements of the end use application.

Power supply provides the following MOPP (means of patient protection): 2 MOPP based upon a working voltage 250 Vrms, 388 Vpk between Primary to Secondary, 1 MOPP based upon a working voltage 241 Vrms, 343 Vpk between Primary and Earth, two MOPP based upon a working voltage 48Vdc between secondary to floated earth trace on PWB for BF output consideration, one MOPP based upon a working voltage 250 Vrms between secondary and earthing trace or chassis for BF Output consideration.

Temperature, Leakage Current (including the use of non-frequency weighted device of 8.7.3e), Protective Earthing, Dielectric Voltage Withstand, and Interruption of the Power Supply tests should Be considered as part of the end product evaluation.

The end-product evaluation shall ensure that the requirements related to Accompanying Documents, Clause 7.9 are met.

The maximum continuous power supply output (Watts) relied on forced air cooling from: 10 cfm fan Applied 5 cm from input connector CN1 blowing inward.

For models marked "SF", additional fusing may be required in the end product to meet the requirement of Cl. 8.11.5, Mains fuses and Over Current Release. These products are only provided With a single fuse.

When installed in a Class I end product, the power supply shall be mounted in a manner that provides sufficient clearance and creepage distance between the primary side of the power supply and protectively earthed accessible conductive parts. In addition, when installed in a Class I end product, the protective bonding terminal of the power supply shall be reliably connected to the main Protective earth terminal of the end product.

When installed in a Class II end product, the power supply shall be mounted in a manner that provides sufficient clearance and creepage distance between the hazardous parts and any Accessible conductive part.

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CERTIFICATE

No. B 13 11 57396 239

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



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

Production
Facility(ies):

72220, 71712

Certification Mark:



Product:

Power supply
(Power Supply)

Model(s):

ECP180PSXX
(where XX can be number 12 to 48 to indicate the main
output voltage, may be also followed by suffix "SF" for
single fuse)

Parameters:

Rated Input Voltage:	100-240 V AC,
Rated Input Current:	2.5 A
Rated input frequency:	50/60 Hz
Rated Output Ratings:	See attachment
Protection Class:	Class I or Class II depend on end use
Temperature, Ambient:	50°C with maximum output power 70°C with half maximum output power.
Elevation for use	0-5000 m above sea level
See attachment for additional information	

Tested according to: EN 60950-1/A12:2011

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.: SI1311058-000

Date, 2013-11-19

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ATTACHMENT TO CERTIFICATE NO. B 13 11 57396 239 FOR XP POWER LLC

POWER SUPPLY

Output Ratings:

Model Number	OUTPUT RATING (Convectional cooling)	
	Voltage (VDC)	Current (A)
ECP180PS12	12	10
ECP180PS15	15	8
ECP180PS24	24	5
ECP180PS28	28	4.3
ECP180PS36	36	3.33
ECP180PS48	48	2.5
	OUTPUT RATING (forced air cooling, with 10cfm fan applied 5cm from input connector CN1 blowing inward., @50°C max)	
ECP180PS12	12	15
ECP180PS15	15	12
ECP180PS24	24	7.5
ECP180PS28	28	6.43
ECP180PS36	36	5
ECP180PS48	48	3.75

Remark: a 12V/0.5A output for cooling fan connection.

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.
- 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 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 proper warning to service persons should be marked on the end product when the power supply has a fuse in the neutral of the primary circuit.

Rpt. Ref. No.: SI1311058-000

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