



Product Service

# CERTIFICATE

No. B 057396 0931 Rev. 00

**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 and certification 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.:** 095-72139318-300

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

**Date,** 2023-12-14

( Antony Young-Taylor )



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**Model(s):** UCP225PSxx-y-z  
(Where xx can be any number between 12 and 48, designating the output voltage. See below for additional and/or optional suffix detail.)

**Brand Name:** XP

### Parameters:

Rated Input Voltage: 100-240 VAC  
Rated Frequency: 50/60 Hz  
Rated Input Current: 3 A  
Protection Class: Class I at end use  
Temperature, Ambient: 50°C with 100% rated output with 15 CFM force cooling  
70°C with 50% rated output with 15 CFM force cooling  
Elevation for Use: 0-5000 m above sea level

### General Product information:

Products covered are open frame power supplies intended for building-in to be used with Medical Electrical Equipment.

### Approved models and Rated Outputs:

Model Number	Voltage (VDC )	OUTPUT RATING			
		Current, power (A, W)		Current, power (A, W)	
		Convection cooling		15 CFM Forced cooling	
		@ 50°C	@70°C	@50°C	@70°C
UCP225PS12	12 (10.1-13.5)	12.5 A max	6.25 A max	18.75 A max	9.38 A max
UCP225PS15	15 (13.6-17)	10 A max	5.0 A max	15 A max	7.5 A max
UCP225PS18	18 (17.1-21)	8.33 A max	4.17 A max	12.5 A max	6.25 A max
UCP225PS24	24 (21.1-26)	6.25 A max	3.13 A max	9.38 A max	4.69 A max
UCP225PS28	28 (26.1-31)	5.36 A max	2.68 A max	8.04 A max	4.02 A max
UCP225PS36	36 (33.1-42)	4.16 A max	2.08 A max	6.25 A max	3.13 A max
UCP225PS48	48 (42.1-54)	3.1 A max	1.56 A max	4.69 A max	2.35 A max
Stand-by Output for all models de-rated by percentage same as conditions noted above for main output.					

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## Suffix:

Additional Suffix y- can be "A" to represent additional 5V standby output (V2).

Additional Suffix z - can be "T" to represent terminal block.

Optional suffix "TF" to represent Top Cover with Fan.

Optional suffix "C" to represent Top cover.

Optional alphanumeric suffix for marketing purposes only-not safety related

Optional suffix "SF" denotes units provided with only a single line side fuse

Suffix "A" denotes unit with 5V standby output (V2). Standby output ratings:

Convection cooling: 5Vdc, 1A

Forced air cooling: 5Vdc, 2A

Units are provided with additional output (V3) to power an external fan. External fan output ratings, forced air cooling only: Forced air cooling: 12Vdc, 0.5 A

## Conditions of Acceptability:

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

## The models require:

- Suitable Mechanical, Fire and Electrical enclosure shall be provided in the end use equipment.
- Proper bonding to the end-product main protective earthing termination is required when the power supply is installed in the end product. Protective earthing testing shall be conducted in the end product application.
- Power supply provides 2 MOPP between Primary to Secondary, 1 MOPP between Primary and Earth/Enclosure, and 1 MOPP between Secondary and Earth/Enclosure.
- 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).
- Temperature, Leakage Current, Protective Earthing, Dielectric Voltage Withstand, and Interruption of the Power Supply tests should be considered as part of the end product evaluation.
- Consideration should be given to measuring the temperature on power electronic components and transformer windings when the power supply is installed in the end-use equipment. The end-use product shall ensure that the power supply is used within its ratings
- Q1 Heatsink considered live and should not be touched, additional evaluation at end use.
- End product shall provide necessary creepage and clearance for 250Vrms from input connector pins to mounting means.
- The input/output connectors are not acceptable for field connections, they are only intended for factory wiring inside the end-use product.
- External forced air cooling, 15 CFM was tested with air towards DUT, located at input connector with a distance of 4 cm
- Models provided with suffix SF only provided with one line side fuse. Consideration should be made in the end-use product to determine the need of double pole fusing.
- 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