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Product Service

# C E R T I F I C A T E

**No. B 057396 0893 Rev. 00**

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

**Certification Mark:**

**Product:** **Power supply**
**Switching 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.:** 095-72192592-000

**Valid until:** 2024-07-06

**Date,** 2023-09-01

( Adrian Rabago Valenzuela )


TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

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**Model(s):**

CCP550PSxx-y-zz-qqqqq

Where:

xx can be 12, 15, 18, 24, 36, or 48 which represents rated output voltage,

y can be blank or A for optional 5V Standby,

zz can be blank or SF for single line fuse,

qqqqq can be blank or any digits or letter for marketing purpose.

**Brand Name:** **XP**

**Parameters:**

| | |
|---|---|
| Rated Input: | 100-240Vac, 7.5A, 50/60Hz |
| Output Ratings: | See next page |
| Protection Class: | Class I at end use. |
| Degree of Protection: | IPX0 |
| Ambient Temperature: | See next page |
| Maximum Altitude: | 5000 m |


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**Model Ratings:**

CCP550PS12: 12Vdc (10.1 - 13.5 Vdc), 25 A max, 300W max (50°C, convection)
CCP550PS15: 15Vdc (13.6 - 17 Vdc), 20 A max, 300W max (50°C, convection)
CCP550PS18: 18Vdc (17.1 – 21 Vdc), 16.7 A max, 300W max (50°C, convection)
CCP550PS24: 24Vdc (21.1 - 26 Vdc), 12.5 A max, 300W max (50°C, convection)
CCP550PS36: 36Vdc (33.1 - 42 Vdc), 8.33 A max, 300W max (50°C, convection)
CCP550PS48: 48Vdc (42.1 - 52 Vdc), 6.25 A max, 300W max (50°C, convection)

CCP550PS12: 12Vdc (10.1 - 13.5 Vdc), 33.33 A max, 400W max (50°C, conduction)
CCP550PS15: 15Vdc (13.6 - 17 Vdc) , 26.67 A max, 400W max (50°C, conduction)
CCP550PS18: 18Vdc (17.1 – 21 Vdc), 22.23 A max, 400W max (50°C, conduction)
CCP550PS24: 24Vdc (21.1 - 26 Vdc), 16.67 A max, 400W max (50°C, conduction)
CCP550PS36: 36Vdc (33.1 - 42 Vdc), 11.1 A max, 400W max (50°C, conduction)
CCP550PS48: 48Vdc (42.1 - 52 Vdc), 8.33 A max, 400W max (50°C, conduction)

CCP550PS12: 12Vdc (10.1 - 13.5 Vdc), 45.8 A max, 550W max (50°C, forced-air with 20 cfm fan)
CCP550PS15: 15Vdc (13.6 - 17 Vdc) , 36.67 A max, 550W max (50°C, forced-air with 20 cfm fan)
CCP550PS18: 18Vdc (17.1 – 21 Vdc), 30.56 A max, 550W max (50°C, forced-air with 20 cfm fan)
CCP550PS24: 24Vdc (21.1 - 26 Vdc) , 22.9 A max, 550W max (50°C, forced-air with 20 cfm fan)
CCP550PS36: 36Vdc (33.1 - 42 Vdc) , 15.27 A max, 550W max (50°C, forced-air with 20 cfm fan)
CCP550PS48: 48Vdc (42.1 - 52 Vdc) , 11.45 A max, 550W max (50°C, forced-air with 20 cfm fan)

- All models are provided with a Fan output (12 Vdc, 0.5A)
- Additional Suffix “-A” denotes optional optional 5V Standby, rated at 1A convection or conduction cooled and 2A forced-air cooled.
- Additional Suffix "-SF" denotes units provided with only a single line side fuse.
- Additional Suffix "-YYYYYY" can be any digits or letters or blank for marketing purpose. All “-“ considered optional


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# C E R T I F I C A T E

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### Conditions of Acceptability:

- The following product-line tests are conducted for this product : Electric Strength, Earthing Continuity
- The end-product Electric Strength Test is to be based upon a maximum working voltage of : T1 Primary-Secondary: 267Vrms/334Vpk, T2 Primary-Secondary: 271Vrms/567Vpk
- The following output circuits are at ES1 energy levels : All Outputs
- The following output circuits are at PS3 energy levels : All Outputs
- The maximum investigated branch circuit rating is : 20 A
- The investigated Pollution Degree is : 2
- Proper bonding to the end-product main protective earthing termination is : Required (Class I)
- An investigation of the protective bonding terminals has : not been conducted, shall be investigation in the end application.
- The following input terminals/connectors must be connected to the end-product supply neutral : AC N
- The following end-product enclosures are required : Mechanical, Fire, Electrical
- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJY2 insulation system with the indicated rating greater than Class A (105°C) : T1: Class F, T2: Class B
- The following components require special consideration during end-product Thermal (Heating) tests due to the indicated maximum temperature measurements during component-level testing : Transformer T1 ( 130°C), Transformer T2 (110°C)
- The maximum continuous power supply output (Watts) relied on forced air cooling from : 6 W fan (60x60mm) at 20 cfm (50mm space) applied to input side of PWB in horizontal orientation position, only for forced air cooling method.
- The power supply was evaluated to be used at altitudes up to : "5000 m"
- When installed in a Class I end product, the power supply shall be mounted in a manner that provides the minimum required Clearance between the primary side of power supply and protectively earthed accessible conductive parts.
- A suitable main disconnect device shall be provided in the end product.
- For all : The power supplies covered by this report have a fuse in the neutral of the primary circuit. The need for a marking to warn a service person of the hazards associated with double pole/neutral fusing shall be considered in the end product.
- Consideration to repeating the "Prospective Touch Voltage and Touch Current Test" should be given in the end-product evaluation.
- The power supplies in this report have been subject to Capacitance Discharge testing. Additionally, all associated component safeguards have been assessed to the applicable requirement in Annex G.10 during component certification. Additional testing should not be needed if directly connected to mains e.g. using an appliance inlet, wiring terminals, etc.
- 5.6.4 - An investigation of the bonding conductors (traces) has not been conducted during the component-level investigation. Suitability of the bonding means shall be the subject of end product investigation, as necessary Spacings between bonding paths and primary circuits have been evaluated for BASIC insulation.

**Tested according to:** EN 62368-1:2014/A11:2017


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