



Product Service

# CERTIFICATE

No. B 057396 0884 Rev. 01

**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, Certification, Validation and Verification 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.:** 7191310347-TR

**Valid until:** 2026-01-07

**Date,** 2024-07-08

( Kim Hock Teo )

# CERTIFICATE

No. B 057396 0884 Rev. 01

**Model(s):** CMP250PSxx-yy (where xx is 24-48, yy can be "SF" or blank, may also be provided with additional suffixes "-C", and "-S", all "-" is optional)

**Brand Name:** XP

**Parameters:**

Rated Input Voltage: 100-240 VAC  
 Rated Input Frequency: 50/60 Hz  
 Rated Input Current: 3.8 A max  
 Protection Class: Class I at end use  
 Ambient Temperature: 50°C max with 100 % output power,  
 70°C max with 50 % output power.  
 Elevation for Use: 0 – 5000 m

## General Product information:

The models are component AC/DC power supplies intended for use in Information Technology Equipment. Open frame switching power supplies intended for building-in.

## Approved Models and Rated Outputs:

Model Number	OUTPUT RATING			
			Convection cooling, or forced air cooling or forced air cooling with cover	convection cooling with cover
	Voltage (VDC )	Max Current (A)	Max Power (W)	Max Power (W)
CMP250PS24-yy	21.1-26	10.4	250	206
CMP250PS28-yy	26.1-31	9.0	250	206
CMP250PS33-yy	31.1-33	7.6	250	206
CMP250PS36-yy	33.1-42	6.9	250	206
CMP250PS48-yy	42.1-54	5.2	250	206
ALL MODELS MAY BE PROVIDED WITH 5VDC, 1.5 A MAX STAND-BY OUTPUT. DE-RATED BY PERCENTAGE SAME AS CONDITIONS NOTED ABOVE FOR MAIN OUTPUT.				

# CERTIFICATE

No. B 057396 0884 Rev. 01

## Technical Considerations

- The product is intended for use on the following power systems : IT, TN
- Considered current rating of protective device as part of the building installation (A) : 20
- Mains supply tolerance (%) or absolute mains supply values : +10%/-10%
- The equipment disconnect device is considered to be : For building-in, to be determined in the end use installation.
- The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of : 50°C (Output loaded to 100% of rated) de-rated linearly to 70°C (Output loaded to 50% of rated)
- The internal wiring is certified Appliance Wiring Material rated VW-1 and/or FT-1 which were considered equivalent to the tests of IEC60332-1-2 and IEC60332-1-3. The final acceptability of the internal wiring may be determined under the discretion of the receiving NCB.
- The following accessible locations (with circuit/schematic designation) are within a limited current circuit: Load side of C33 (Pri to Sec bridging capacitor).
- In accordance with IEC60664-1, Table A2, required clearances were adjusted by multiplying the clearance at sea level by a factor of 1.48 for operating at an altitude of 5000 m. The correction factor is based on barometric pressure of 70 kPa and Overvoltage Category II. If the calculated clearance exceeded the creepage, the creepage was adjusted to the value of clearance.

## Engineering Conditions of Acceptability

When installed in an end-product, consideration must be given to the following:

- The following output circuits are at PS3 energy levels : All
- The maximum investigated branch circuit rating is : 20A
- Proper bonding to the end-product main protective earthing termination is : Required
- The following end-product enclosures are required : Mechanical, Electrical, Fire
- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJ2 insulation system with the indicated rating greater than Class A (105°C) : T1 and L4 are Class F (155).
- The maximum continuous power supply output (Watts) relied on forced air cooling from : 12.5 CFM Fan applied to product 2 inches from input side with airflow directed inward.
- The power supply was evaluated to be used at altitudes up to : 5,000 m
- The following output circuits are at ES1 energy levels : All
- The investigated Pollution Degree is : 2
- The following components require special consideration during end-product Thermal (Heating) tests due to the indicated maximum temperature measurements during component-level testing : PWB is rated 130°C
- The following product-line tests are conducted for this product : Electric Strength
- The equipment is provided with a fuse in both the Line and Neutral of the primary circuit. The need for a marking warning service person of the hazards associated with neutral fusing shall be considered in the end-product.
- The end-product Electric Strength Test is to be based upon a Mains Transient Voltage of 2500Vdc for Basic and 4000Vdc for Reinforced.
- The power supply terminals and/or connectors are suitable for factory wiring only.
- Proper bonding to the end-product main protective earthing termination is: required when the power supply is used in a Class I end product. The power supply will be considered Class II only when protection against electric shock does not rely on Basic Insulation and provides a minimum of 5 mm creepage and 4 mm clearance distance (mounted above chassis/accessible metal parts on Insulating posts etc). Class II units have no reliance upon protective earthing.
- Safeguards against capacitor discharge after disconnection of a connector (clause 5.5.2.2) shall be evaluated in the end-product.
- Clearances were evaluated for 5000m altitude. Additional consideration maybe necessary in the end-use product.

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