



Product Service

CERTIFICATE

No. B 057396 0382 Rev. 03

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

Test report no.: 7191329786-12-TR

Valid until: 2026-01-07

Date, 2024-06-07

(Kim Hock Teo)

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Model(s):

GCS150PSxx, GCS150PSxxK, GCS180PSxx

(where xx can be any number between 12 to 48 for output voltage; may be optionally followed by "-R", then by "-C", "-TF" or "-EF" or blank, may also be provided with additional suffix "SF", "S" or "L". All "-" are optional)

AVPQ073M245165

(may be provided with suffix A-Z for non-safety related options)

Brand Name:

XP

Parameters:

Rated Input Voltage: 100-240 VAC

Rated Frequency: 50/60 Hz

Rated Input Current: 1.8 A (GCS150PSxx, GCS150PSxxK)

2.2 A (GCS180PSxx)

1.6 A (AVPQ073M245165)

Protection Class: Class I or Class II at end use

Elevation for Use: 0-5000 m above sea level

Approved models and Rated Outputs:

Model Number	OUTPUT (7 CFM Forced Cooling)		
	Voltage (V)	Current (A)	Max. Power
GCS150PS12	10.1-13.5	12.5	150
GCS150PS15	13.6-17	10.0	150
GCS150PS18	17.1-21	8.3	150
GCS150PS24	21.1-26	6.3	150
GCS150PS28	26.1-31	5.4	150
GCS150PS33	31.1-33	4.5	150
GCS150PS36	33.1-42	4.2	150
GCS150PS48	42.1-54	3.2	150
GCS180PS12	10.1-13.5	15	180
GCS180PS15	13.6-17	12	180
GCS180PS18	17.1-21	10	180
GCS180PS24	21.1-26	7.5	180
GCS180PS28	26.1-31	6.4	180
GCS180PS33	31.1-33	5.5	180
GCS180PS36	33.1-42	5.0	180
GCS180PS48	42.1-54	3.75	180
AVPQ073M245165	Rated Output: V1: 15 Vdc/3.24A, V2: 24Vdc/2.16A, V3: -24Vdc/0.97A total 124W max		

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Output Power under different cooling methods at Tma

Model Number	Output Voltage (V)	Convection cooling		7 CFM Forced cooling	
		Max Power (W)	Temp (°C)	Max Power (W)	Temp (°C)
GCS150PSxx	10.1-13.5	110	50	150	50
	13.6-17	110	50	150	50
	17.1-21	110	50	150	50
	21.1-26	110	50	150	50
	26.1-31	110	50	150	50
	31.1-33	110	50	150	50
	33.1-42	110	50	150	50
	42.1-54	110	50	150	50
GCS150PSxxK	10.1-13.5	150	40	150	50
	13.6-17	150	40	150	50
	17.1-21	150	40	150	50
	21.1-26	150	40	150	50
	26.1-31	150	40	150	50
	31.1-33	150	40	150	50
	33.1-42	150	40	150	50
	42.1-54	150	40	150	50
GCS180PSxx	10.1-13.5	150	50	180	50
	13.6-17	150	50	180	50
	17.1-21	150	50	180	50
	21.1-26	150	50	180	50
	26.1-31	150	50	180	50
	31.1-33	150	50	180	50
	33.1-42	150	50	180	50
	42.1-54	150	50	180	50

Suffix:

- R: Remote inhibit
- C: Provided with cover
- TF: Provided with top fan
- EF: Provided with end fan
- K: Can operate with maximum output power at ambient 40°C
- Blank: open frame (without cover)
- SF: Provided with single pole fusing
- S: Provided with screw terminal block
- L: Provided with fly leads

Temperature ratings:

- For "GCS" models: Rated 50°C at 100% rated output, 70°C at 50% rated output
- For model AVPQ073M245165: 55°C at 100% rated output, 70°C at 50% rated output.



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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.
- The product is intended for use on the following power systems: TN.
- The following output circuits are at ES1 energy levels: All.
- The following output circuits are at PS3 energy levels: All.
- The equipment disconnect device is considered to be: For model AVPQ073M245165 an appliance inlet is used. All other models are for building in and will be determined in the end use installation.
- Sufficient clearance and creepage distance shall be provided between the primary circuit and accessible conductive parts.
- Heatsinks are floating and considered live. They shall not be accessible in the end product.
- Proper bonding to the end-product main protective earthing terminal is required when installed in Class I end product, ground bond test shall be conducted.
- Touch current test and dielectric Strength test need to be considered at end use equipment.
- The power supplies have a fuse in the neutral of the primary circuit. A warning for service persons to be considered in the end product.
- The following components require special consideration during end-product Thermal (Heating) tests due to the indicated maximum temperature measurements during component-level testing: Model GCS180PS12: T1 (125.3°C), J2 (98.7°C).
- The maximum continuous power supply output (Watts) relied on forced air cooling from: 7 CFM fan applied 2 inches from input side, blowing inward.
- Fans: For models with the suffix "EF", the fan provided in this sub-assembly is not intended for operator access., For models with the suffix "TF", the fan provided in this sub-assembly is provided with a fan guard to reduce the risk of operator contact with the stator. Additional evaluation at end use.

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