



Product Service

CERTIFICATE

No. B 057396 0289 Rev. 02

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

Test report no.: 095-72141141112-100

Valid until: 2024-10-08

Date, 2023-09-04

(Antony Young-Taylor)

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Model(s):

GCS250PSxxyy
 (where xx can be 12 to 56 and yy can be "-C", "-TF",
 "-EF" or blank; all "-" are optional, may also be provided
 with additional suffix "SF", "S", "R" or "L")

Brand Name: XP

Parameters:

Rated Input Voltage: 100-240 VAC
 Rated Frequency: 50/60 Hz
 Rated Input Current: 3 A
 Protection Class: Class I or Class II at end use
 Elevation For Use: 0 - 5000 m
 Temperature, Ambient: 50°C with maximum output power with 7CFM forced cooling
 70°C with half maximum output power with 7CFM forced cooling

Models covered in this report are component power supplies intended for use in Medical Electrical Equipment. They are open frame power supplies for building-in Class I or Class II end product.

Approved models and Rated Outputs:

Model Number	OUTPUT (7 CFM Forced Cooling)		
	Voltage (V)	Current (A)	Max. Power
GCS250PS12	10.1-13.5	18.7	225
GCS250PS15	13.6-17	15	225
GCS250PS18	17.1-21	13.9	250
GCS250PS24	21.1-26	10.4	250
GCS250PS28	26.1-31	8.9	250
GCS250PS33	31.1-33	7.6	250
GCS250PS36	33.1-42	6.9	250
GCS250PS48	42.1-54	5.2	250
GCS250PS56	54.1-63.2	4.5	250

Suffix:

C: unit provided with cover,
 TF: unit provided with top fan,
 EF: unit provided with end fan,
 Unit without suffix "C", "TF" or "EF" are open frame models (without cover).
 SF: unit provided with single pole fusing,
 S: unit provided with screw terminal block,
 L: unit provided with fly leads.
 R: unit provided with Remote inhibit.

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Output Power under difference cooling methods

Model Number	Convictional Cooling without Cover		Convictional Cooling with Cover		Forced Air Cooling with Cover	
	Max Output @50°C	Max Output @70°C	Max Output @50°C	Max Output @70°C	Max Output @50°C	Max Output @70°C
GCS250PS12	180W, 15A	90W, 7.5A	145W, 12.1A	72.5W, 6.04A	225W, 18.7A	112.5W, 9.38A
GCS250PS15	180W, 13A	90W, 6A	145W, 9.7A	72.5W, 4.8A	225W, 15A	112.5W, 7.5A
GCS250PS18	180W, 10A	90W, 5A	180W, 10A	90W, 5A	250W, 13.9A	125W, 6.9A
GCS250PS24	180W, 7.5A	90W, 3.75A	180W, 7.5A	90W, 3.75A	250W, 10.4A	125W, 5.2A
GCS250PS28	180W, 6.4A	90W, 3.2A	180W, 6.4A	90W, 3.2A	250W, 8.9A	125W, 4.5A
GCS250PS33	180W, 5.5A	90W, 2.7A	180W, 5.5A	90W, 2.7A	250W, 7.6A	125W, 3.8A
GCS250PS36	180W, 5A	90W, 2.5A	180W, 5A	90W, 2.5A	250W, 6.9A	125W, 3.5A
GCS250PS48	180W, 3.75A	90W, 1.88A	180W, 3.75A	90W, 1.88A	250W, 5.2A	125W, 2.6A
GCS250PS56	180W, 3.2A	90W, 1.61A	180W, 3.2A	90W, 1.61A	250W, 4.5A	125W, 2.23A

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Model Number	With End Fan		With Top Fan		Forced Air Cooling without Cover	
	Max Output @50°C	Max Output @70°C	Max Output @50°C	Max Output @70°C	Max Output @50°C	Max Output @70°C
GCS250PS12	225W, 18.7A	112.5W, 9.38A	225W, 18.7A	112.5W, 9.38A	225W, 18.7A	112.5W, 9.38A
GCS250PS15	225W, 15A	112.5W, 7.5A	225W, 15A	112.5W, 7.5A	225W, 15A	112.5W, 7.5A
GCS250PS18	250W, 13.9A	125W, 6.9A	250W, 13.9A	125W, 6.9A	250W, 13.9A	125W, 6.9A
GCS250PS24	250W, 10.4A	125W, 5.2A	250W, 10.4A	125W, 5.2A	250W, 10.4A	125W, 5.2A
GCS250PS28	250W, 8.9A	125W, 4.5A	250W, 8.9A	125W, 4.5A	250W, 8.9A	125W, 4.5A
GCS250PS33	250W, 7.6A	125W, 3.8A	250W, 7.6A	125W, 3.8A	250W, 7.6A	125W, 3.8A
GCS250PS36	250W, 6.9A	125W, 3.5A	250W, 6.9A	125W, 3.5A	250W, 6.9A	125W, 3.5A
GCS250PS48	250W, 5.2A	125W, 2.6A	250W, 5.2A	125W, 2.6A	250W, 5.2A	125W, 2.6A
GCS250PS56	250W, 4.5A	125W, 2.23A	250W, 4.5A	125W, 2.23A	250W, 4.5A	125W, 2.23A

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Conditions of Acceptability:

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

- 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).
- The end product shall ensure that the requirements related to accompanying documents, clause 7.9, are met.
- The output connectors are not acceptable for field connections; they are only intended for connection to mating connectors of the end-use equipment.
- Power supply provides the following MOPP (means of patient protection): two MOPP between Primary to Secondary, one MOPP between Primary and Earth/Enclosure, one MOPP based upon a working voltage 250 Vrms between secondary and earthing trace or chassis for BF output consideration.
- The need for Marking Durability and Marking Legibility Testing shall be considered as part of the end product installation.
- The products were tested on a 20 A branch circuit. If used on a branch circuit greater than this, additional testing may be necessary.
- Units provided with single fuse in Line side, end product to determine the need for additional double pole fusing as part of the end product.
- When installed in a Class I end product, the power supply shall be mounted in a manner that provides, at a minimum, 3.2 mm Clearance/4 mm Creepage between the primary sides of 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 earthing 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 accessible conductive parts.
- Proper bonding to the Class I end-product main protective earthing termination is required (via mounting holes on the PCB), unless for Class II applications. For Class II applications the primary side mounting pads are isolated from accessible conductive chassis by Reinforced Insulation
- Forced-air cooling with cover at 7 CFM shall be provided with the end product in order to achieve maximum power output.
- Repeat of leakage current testing and consideration of non-frequency weighted leakage current (clause 8.7.3e) to be considered as part of the end product.
- Fire/ Mechanical/ Electrical Enclosure to be provided as part of the end product.
- 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