



No. B 057396 0612 Rev. 00

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.:

095-72158160-000

Valid until:

2025-07-21

Date, 2020-07-27

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(Antony Young-Taylor)



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Model(s):

GCS150PSxxKyy, GCS150PSxxyy, GCS180PSxxyy Series (where xx can be number between 12 and 48 for main output voltage, yy is "-C", "-TF", "-EF" or blank and may be preceded by "-R"; all "-" considered optional; may also be provided with additional suffix "SF" or "S").

Brand Name:

XP

Parameters:

Input Voltage: Input Frequency: Input Current:

Output Voltage: Output Current: Protection Class: Maximum Altitude: Ambient Temperature: 100-240 VAC 50/60 Hz GCS150PSxxKyy, GCS150PSxxyy Series: 1.8 A GCS180PSxxyy Series: 2.2 A See next page Approved models and output ratings. See next page Approved models and output ratings. Can be installed in Class I or Class II end product. 0-5000 m See next page Approved models and output ratings.

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POWER SUPPLY

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General Product information:

Models covered in this report are open frame power supplies intended to be used in Medical Electrical Equipment. Units are intended for building in Class I or Class II end-products.

| An | proved | models | and | output | ratings: |
|------------|--------|--------|-----|--------|----------|
| ~ Ρ | protea | modelo | unu | output | radings. |

| Series | Max. Output | | Convection Cooled | | Forced cooled (7 CFM) | |
|--------------|-------------|------|-------------------|-----------------|-----------------------|--------------|
| | Vdc | A | Output power W | Max. ambient | Output power W | Max. ambient |
| GCS150PS12 | 10.1-13.5 | 12.5 | 110 | 50 °C | 150 | 50 °C |
| GCS150PS15 | 13.6-17 | 10.0 | 110 | 50 °C | 150 | 50 °C |
| GCS150PS18 | 17.1-21 | 8.3 | 110 | 50 °C | 150 | 50 °C |
| GCS150PS24 | 21.1-26 | 6.3 | 110 | 50 °C | 150 | 50 °C |
| GCS150PS28 | 26.1-31 | 5.4 | 110 | 50 °C | 150 | 50 °C |
| GCS150PS33 | 31.1-33 | 4.5 | 110 | 50 °C | 150 | 50 °C |
| GCS150PS36 | 33.1-42 | 4.2 | 110 | 50 °C | 150 | 50 °C |
| GCS150PS48 | 42.1-54 | 3.2 | 110 | 50 °C | 150 | 50 °C |
| | | | | | | |
| GCS150PS12-K | 10.1-13.5 | 12.5 | 150 | 40 °C | 150 | 50 °C |
| GCS150PS15-K | 13.6-17 | 10.0 | 150 | 40 °C | 150 | 50 °C |
| GCS150PS18-K | 17.1-21 | 8.3 | 150 | 40 °C | 150 | 50 °C |
| GCS150PS24-K | 21.1-26 | 6.3 | 150 | 40 °C | 150 | 50 °C |
| GCS150PS28-K | 26.1-31 | 5.4 | 150 | 40 °C | 150 | 50 °C |
| GCS150PS33-K | 31.1-33 | 4.5 | 150 | 40 °C | 150 | 50 °C |
| GCS150PS36-K | 33.1-42 | 4.2 | 150 | 40 °C | 150 | 50 °C |
| GCS150PS48-K | 42.1-54 | 3.2 | 150 | 40 °C | 150 | 50 °C |
| | | | | | | |
| GCS180PS12 | 10.1-13.5 | 15.0 | 150 | 50 °C | 180 | 50 °C |
| GCS180PS15 | 13.6-17 | 12.0 | 150 | 50 °C | 180 | 50 °C |
| GCS180PS18 | 17.1-21 | 10.0 | 150 | 50 °C | 180 | 50 °C |
| GCS180PS24 | 21.1-26 | 7.5 | 150 | 50 °C | 180 | 50 °C |
| GCS180PS28 | 26.1-31 | 6.4 | 150 | 50 °C | 180 | 50 °C |
| GCS180PS33 | 31.1-33 | 5.5 | 150 | 50 °C | 180 | 50 °C |
| GCS180PS36 | 33.1-42 | 5.0 | 150 | 50 °C | 180 | 50 °C |
| GCS180PS48 | 42.1-54 | 3.75 | 150 | 50 °C | 180 | 50 °C |

Suffix:

C: unit provided with cover,

R: unit provided with Remote inhibit,

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,

Unit with "K" in model No. can operate at full power at an ambient of 40°C.

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Conditions of Acceptability:

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

- Fire/ Mechanical/ Electrical Enclosure to be provided as part of the end product.
- 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.
- Model GCS180PSxx series: Power supply provides the following MOPP (means of patient protection): two MOPP based upon a working voltage 298 Vrms, 528 Vpk between Primary to Secondary, one MOPP based upon a working voltage 250 Vrms, 353 Vpk between Primary and Earth/Enclosure, two MOPP based upon a working voltage 48Vdc between secondary to floated earth trace on PWB for BF output consideration, one MOPP based upon a working voltage 250 Vrms between secondary and earthing trace or chassis for BF output consideration.
- Model GCS150PSxx series: Power supply provides the following MOPP (means of patient protection): two MOPP based upon a working voltage 287 Vrms, 509 Vpk between Primary to Secondary, one MOPP based upon a working voltage 244 Vrms, 356 Vpk between Primary and Earth/Enclosure, two MOPP based upon a working voltage 48Vdc between secondary to floated earth trace on PWB for BF output consideration, one MOPP based upon a working voltage 250 Vrms between secondary and earthing trace or chassis for BF output consideration.
- 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 end product, the power supply shall be mounted in a manner that sufficient clearance and Creepage distance 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.
- 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 059061, 059319, 071712, 089850

Production Facility(ies):

Page 4 of 4 TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany