



Product Service

CERTIFICATE

No. B 057396 0382 Rev. 01

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 (AVPQ073M245265)

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

Production Facility(ies): 059319, 071712, 059061, 089850