ZERTIFIKAT • CERTIFICATE • 認證證書 • СЕРТИФИКАТ • CERTIFICADO • CERTIFICAT

America

CERTIFICATE

No. B 15 06 57396 338

Holder of Certificate: XP Power LLC.

15641 Red Hill Avenue, Suite 100
Tustin CA 92780
USA

Production Facility(ies): 71712, 59319, 89850

Certification Mark:

Product: Power supply

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")**

Parameters:

Rated Input:	GCS150PSxxKyy, GCS150PSxxyy Series: 100-240 VAC, 50/60 Hz, 1.8 A GCS180PSxxyy Series: 100-240 VAC, 50/60 Hz, 2.2 A max
Rated Output:	See attachment
Protection Class:	Can be installed in Class I or Class II end product
Temperature, Ambient:	See attachment
Elevation for Use:	0 - 5000 m

See attachment for further information.

Tested according to: EN 60601-1:2006/A12:2014

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. See also notes overleaf.

Test report no.: 095-72107129-000

Valid until: 2020-06-10

040527681709 10

Date, 2015-06-12

TÜV®

America

ATTACHMENT TO CERTIFICATE NO. B 15 06 57396 338
FOR XP POWER LLC

POWER SUPPLY

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.

Approved models and output ratings:

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.

America

ATTACHMENT TO CERTIFICATE NO. B 15 06 57396 338
FOR XP POWER LLC

Conditions of Acceptability:

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).

ZERTIFIKAT • CERTIFICATE • 認証書 • СЕРТИФИКАТ • CERTIFICADO • CERTIFICAT

America

CERTIFICATE

No. B 13 04 57396 204

Holder of Certificate: **XP Power LLC.**
1241 East Dyer Road, Suite 150
Santa Ana CA 92705
USA

Production Facility(ies): 71712, 59319

Certification Mark:

Product: **Power supply (Power Supply)**

Model(s): **GCS150PSxxKyy, GCS150PSxxyy, GCS180PSxxyy Series (See attachment for further information)**

Parameters:

Rated Input:	GCS150PSxxKyy, GCS150PSxxyy Series: 100-240 VAC, 50/60 Hz, 1.8 A GCS180PSxxyy Series: 100-240 VAC, 50/60 Hz, 2.2 A max
Rated Output:	See attachment
Protection Class:	Can be installed in Class I or Class II end product

See attachment for further information.

Tested according to: EN 60601-1:2006

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. See also notes overleaf.

Test report no.: SI1303775-000

538876

Date, 2013-04-24

America

ATTACHMENT TO CERTIFICATE NO. B 13 04 57396 204
FOR XP POWER LLC

POWER SUPPLY

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.

Model Differences

Model GCS150PSxx series and Model GCS180PSxx are identical with the exception to input ratings, power output, the shape of the Primary Heatsink, and minor differences in the PWB layout.

All models in the Model GCS150PSxx series and Model GCS180PSxx are identical with exception to the Mains Transformer, T1, and minor secondary components that allow for different output voltage ratings. See below for Model Ratings Table Below:

Model GCS150PS12: Output Rated: 12 Vdc, 12.5 A
Model GCS150PS15: Output Rated: 15 Vdc, 10.0 A
Model GCS150PS24: Output Rated: 24 Vdc, 6.3 A
Model GCS150PS28: Output Rated: 28 Vdc, 5.4 A
Model GCS150PS48: Output Rated: 48 Vdc, 3.2 A

Model GCS180PS12: Output Rated: 12 Vdc, 15 A
Model GCS180PS15: Output Rated: 15 Vdc, 12 A
Model GCS180PS24: Output Rated: 24 Vdc, 7.5 A
Model GCS180PS28: Output Rated: 28 Vdc, 6.4 A
Model GCS180PS48: Output Rated: 48 Vdc, 3.75 A

See Enclosure - Miscellaneous for de-rated output values for higher ambient.
See Enclosure - Miscellaneous for max Power Outputs based on model, ambient, and forced air cooling.

Units provided with suffix "R" is remote inhibit.
Units provided with suffix "C" is provided with cover.
Units provided with suffix "TF" is provided with top fan.
Units provided with suffix "EF" is provided with end fan.
Units provided with suffix "K" can operate at full power at an ambient of 40°C.
Units provided without suffix "C", "TF" or "EF" is open frame (without cover).
Units provided with additional suffix "SF" to indicate single pole fusing.
Units provided with additional suffix "S" to indicate screw terminal block.
Units provided with additional suffix "L" to indicate fly leads.

America

ATTACHMENT TO CERTIFICATE NO. B 13 04 57396 204
FOR XP POWER LLC

Series	Output Voltage	Convection Cooled		Forced Cooled	
		Power	Temp	Power	Temp
GCS150PSxx	12V	110W	50°C	150W 7 CFM	50°C
	15V	110W	50°C	150W 7 CFM	50°C
	24V	110W	50°C	150W 7 CFM	50°C
	28V	110W	50°C	150W 7 CFM	50°C
	48V	110W	50°C	150W 7 CFM	50°C
GCS150PSxx-K (CoolMOS)	12V	150W	40°C	150W 7 CFM	50°C
	15V	150W	40°C	150W 7 CFM	50°C
	24V	150W	40°C	150W 7 CFM	50°C
	28V	150W	40°C	150W 7 CFM	50°C
	48V	150W	40°C	150W 7 CFM	50°C
GCS180PSxx	12V	150W	50°C	180W 7 CFM	50°C
	15V	150W	50°C	180W 7 CFM	50°C
	24V	150W	50°C	180W 7 CFM	50°C
	28V	150W	50°C	180W 7 CFM	50°C
	48V	150W	50°C	180W 7 CFM	50°C

America

ATTACHMENT TO CERTIFICATE NO. B 13 04 57396 204
FOR XP POWER LLC

Conditions of Acceptability:

- The component shall be considered for compliance with the Marking (clause 7) and Separation (clause 8) requirements as part of the end use application evaluation.
- 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.
- 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 available voltage for the secondary outputs does not exceed 25 Vac or 60 Vdc, under normal and single fault conditions.
- The output connectors are not acceptable for field connections; they are only intended for connection to mating connectors of the end-use equipment.
- The Dielectric Strength Test conducted on this power supply was based upon a maximum working voltage of 353 Vpk, 250 Vrms from Primary-Earthed Dead Metal, 528 Vpk, 298 Vrms from Primary-Secondary for Models GCS180PSxx series; and 356 Vpk, 244 Vrms for Primary-Earthed Dead Metal; 509Vpk, 287Vrms from Primary-secondary for Model GCS150PSxx series.
- Cleaning test shall be considered as part of end product evaluation.
- The need for Marking Durability and Marking Legibility Testing shall be considered as part of the end product installation.
- Fire/ Mechanical/ Electrical Enclosure to be provided as part of the end product.
- Temperature, Leakage Current, Protective Earthing, Dielectric Voltage Withstand, and Interruption of the Power Supply tests should be considered as part of the end product evaluation.
- The products were tested on a 20 A branch circuit. If used on a branch circuit greater than this, additional testing may be necessary.
- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJY2 insulation system with the indicated rating greater than Class A (105°C): L1, L4 and T1 (Class F, 155°C)
- The PWB is rated 130°C.
- For Class I applications: Unit to be properly bonded to end product main protective earth.
- 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.
- Unit has been subjected to 5 day humidity condition test at 93%, 40°C.
- 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, on insulating posts, in a manner that provides, at a min. 6.5 mm Clearance/8 mm Creepage between the power supply and any 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

ZERTIFIKAT • CERTIFICATE • 認證證書 • СЕРТИФИКАТ • CERTIFICADO • CERTIFICAT

TÜV SÜD America

CERTIFICATE

No. B 14 11 57396 289

Holder of Certificate: **XP Power LLC.**
1241 East Dyer Road, Suite 150
Santa Ana CA 92705
USA

Production Facility(ies): 71712, 59319

Certification Mark:

Product: **Power supply (Power Supply)**

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")

Parameters:

Rated Input Voltage:	100-240 VAC
Rated Frequency:	50/60 Hz
Rated Input Current:	3 A
Rated Output Ratings:	See attachment
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

See attachment for additional information.

Tested according to: EN 60601-1/A1:2013

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. See also notes overleaf.

Test report no.: SI1409800-123

Valid until: 2019-11-21

Date, 2014-11-26

TÜV®

UCB_F_12.02 2012-02

America

ATTACHMENT TO CERTIFICATE NO. B 14 11 57396 289
FOR XP POWER LLC

POWER SUPPLY

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.

America

ATTACHMENT TO CERTIFICATE NO. B 14 11 57396 289 FOR XP POWER LLC

Output Power under difference cooling methods

Model Number	Convectional Cooling Without Cover		Convectional 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

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

America

ATTACHMENT TO CERTIFICATE NO. B 14 11 57396 289
FOR XP POWER LLC

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 based upon a working voltage 240 Vrms, 320 Vpk between Primary to Secondary, one MOPP based upon a working voltage 240Vrms, 340 Vpk 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).

ZERTIFIKAT • CERTIFICATE • 認證證書 • СЕРТИФИКАТ • CERTIFICADO • CERTIFICAT

America

CERTIFICATE

No. B 13 12 57396 244

Holder of Certificate: **XP Power LLC.**

1241 East Dyer Road, Suite 150
Santa Ana CA 92705
USA

Production Facility(ies): 59319, 71712

Certification Mark:

Product: **Power supply (Power Supply)**

Model(s): **GCS250PSxx, (where xx can be number between 12 to 56 for output voltage; may be optionally followed by "-R", then by "-C" or "-TF" or "-EF" or blank, then optionally followed by "SF" or "S" or "L". All "-" are optional)**

Parameters:

Rated Input Voltage:	100-240 VAC
Rated Input Current:	3 A
Rated Frequency:	50/60 Hz
Rated Output:	See attachment
Protection Class:	Class I or Class II at end use.
Temperature, Ambient:	50°C with maximum output power with 7CFM forced cooling, 70°C with half maximum output power with 7CFM forced cooling.

See attachment for further information.

Tested according to: EN 60950-1/A12:2011

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. See also notes overleaf.

Test report no.: SI1312228-000

Date, 2013-12-20

600055

America

ATTACHMENT TO CERTIFICATE NO. B 13 12 57396 244 FOR XP POWER LLC

POWER SUPPLY

Models covered in this report are component power supplies intended for use in IT equipment. They are power supplies intended 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
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:
R: Remote inhibit,
C: Provided with cover,
TF: Provided with top fan,
EF: Provided with end fan,
SF: Provided with single pole fusing,
S: Provided with screw terminal block,
L: Provided with fly leads.
Models without suffix "C", "TF" or "EF" are open frame models (without cover).

Output Power under difference cooling methods

Model Number	Convectional Cooling Without Cover		Convectional 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
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

America

ATTACHMENT TO CERTIFICATE NO. B 13 12 57396 244
FOR XP POWER LLC

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
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

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 fire enclosure shall be provided in the end use equipment.
- Proper bonding to the end-product main protective earthing terminal is required when the power supply is installed in the Class I end product. Ground bond test shall be conducted at Class I end product.
- The power supply units provide double pole fusing (models without "SF" suffix), proper warning shall be provided at end product.
- The maximum continuous power supply output relies on forced air cooling from: 7 CFM DC fan applied inward 1 inches (approx. 2.5cm) from input side.
- Touch current test shall be conducted in the end-product evaluation.
- 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.

America

ATTACHMENT TO CERTIFICATE NO. B 13 12 57396 244
FOR XP POWER LLC

For CLASS I Installation:

The power supply shall be mounted in manner that it provides sufficient clearance and creepage distances between the hazardous parts and protectively earthed accessible conductive parts when installed in a Class I end product.

The protective bonding terminal of the power supply shall be reliably bonded to the main protective earthing terminal of the end product when installed in a Class I end product.

For CLASS II Installation:

The power supply shall be mounted in manner that it provide sufficient clearance and creepage distance between the hazardous parts and accessible conductive parts when installed in a Class II end product.

ZERTIFIKAT • CERTIFICATE • 認證證書 • СЕРТИФИКАТ • CERTIFICADO • CERTIFICAT

America

CERTIFICATE

No. B 14 10 57396 285

Holder of Certificate: **XP Power LLC.**
1241 East Dyer Road, Suite 150
Santa Ana CA 92705
USA

Production Facility(ies): 59319, 71712

Certification Mark:

Product: **Power supply**

Model(s): **GCS265PSxx Series**
(where xx can be number between 12 to 56 for output voltage; may be optionally followed by "-C" or "-TF" or "-EF" or blank, may also be provided with additional suffix "SF" or "S" or "R" or "L". All "-" are optional)

Parameters:

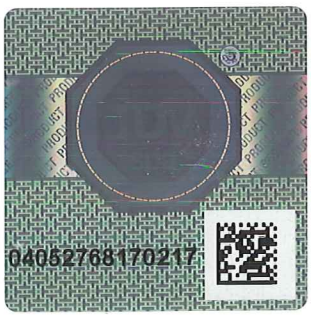
Rated Input Voltage:	100-240 V AC
Rated Frequency:	50/60 Hz
Rated Input Current:	3 A
Rated output:	See attachment for output information
Protection Class:	Class I or Class II at end use
Temperature, Ambient:	50°C with maximum output power with forced cooling 70°C with half maximum output power with forced cooling
Others:	See attachment for conditions of acceptability

Tested according to: EN 60601-1/A1:2013

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. See also notes overleaf.

Test report no.: SI1409836-000

Valid until: 2019-10-24



Date, 2014-12-09

America

ATTACHMENT TO CERTIFICATE NO. B 14 10 57396 285 FOR XP POWER LLC.

POWER SUPPLY

General Product information:

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

Model Differences:

All models in GCS265PSxx series are similar; the differences are the main transformer T1, some secondary components/circuitry for different output voltage ratings.

Approved models and Rated Outputs:

Model Number	DC OUTPUT (with 7 CFM Forced Cooling)				
	V1 Voltage (V)	Current (A)	V2 Voltage (V)	Max Current (A)	Total Power (W)
GCS265PS12	10.1-13.5	20.8	5	3	265
GCS265PS15	13.6-17	16.7	5	3	265
GCS265PS18	17.1-21	13.9	5	3	265
GCS265PS24	21.1-26	10.4	5	3	265
GCS265PS28	26.1-31	8.9	5	3	265
GCS265PS33	31.1-33	7.6	5	3	265
GCS265PS36	33.1-42	6.9	5	3	265
GCS265PS48	42.1-54	5.2	5	3	265
GCS265PS56	54.1-63.2	4.5	5	3	265

Note: V2 is the 5Vdc standby output

Suffix:

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

America

ATTACHMENT TO CERTIFICATE NO. B 14 10 57396 285 FOR XP POWER LLC.

Output Power under different configurations:

Model Number	Convectional Cooling Without Cover		Convectional 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
GCS265PS12	V1:180W, 15A V2: 10W, 2A	V1: 90W, 7.5A V2: 5W, 1A	V1: 140W, 11.67A V2: 10W, 2A	V1: 70W, 5.83A V2: 5W, 1A	V1: 250W, 20.8 V2: 15W, 3A	V1: 125W, 10.4A V2: 7.5W, 1.5A
GCS265PS15	V1:180W, 12A V2: 10W, 2A	V1: 90W, 6A V2: 5W, 1A	V1: 140W, 9.33A V2: 10W, 2A	V1: 70W, 4.67A V2: 5W, 1A	V1: 250W, 16.7A V2: 15W, 3A	V1: 125W, 8.3A V2: 7.5W, 1.5A
GCS265PS18	V1:180W, 10A V2: 10W, 2A	V1: 90W, 5A V2: 5W, 1A	V1: 140W, 7.78A V2: 10W, 2A	V1: 70W, 3.89A V2: 5W, 1A	V1: 250W, 13.9A V2: 15W, 3A	V1: 125W, 6.9A V2: 7.5W, 1.5A
GCS265PS24	V1: 180W, 7.5A V2: 10W, 2A	V1: 90W, 3.75A V2: 5W, 1A	V1: 140W, 5.83A V2: 10W, 2A	V1: 70W, 2.92A, V2: 5W, 1A	V1: 250W, 10.4A V2: 15W, 3A	V1: 125W, 5.2A V2: 7.5W, 1.5A
GCS265PS28	V1: 180W, 6.4A V2: 10W, 2A	V1: 90W, 3.21A V2: 5W, 1A	V1: 140W, 5A V2: 10W, 2A	V1: 70W, 2.5A, V2: 5W, 1A	V1: 250W, 8.9A V2: 15W, 3A	V1: 125W, 4.5A V2: 7.5W, 1.5A
GCS265PS33	V1: 180W, 5.5A V2: 10W, 2A	V1: 90W, 2.72A V2: 5W, 1A	V1: 140W, 4.24A V2: 10W, 2A	V1: 70W, 2.12A, V2: 5W, 1A	V1: 250W, 7.6A V2: 15W, 3A	V1: 125W, 3.8A V2: 7.5W, 1.5A
GCS265PS36	V1: 180W, 5A V2: 10W, 2A	V1: 90W, 2.5A V2: 5W, 1A	V1: 140W, 3.89A V2: 10W, 2A	V1: 70W, 1.94A, V2: 5W, 1A	V1: 250W, 6.9A V2: 15W, 3A	V1: 125W, 3.5A V2: 7.5W, 1.5A
GCS265PS48	V1: 180W, 3.75A V2: 10W, 2A	V1: 90W, 1.875A V2: 5W, 1A	V1: 140W, 2.92A V2: 10W, 2A	V1: 70W, 1.46A V2: 5W, 1A	V1: 250W, 5.2A V2: 15, 3A	V1: 125W, 2.6A V2: 7.5W, 1.5A
GCS265PS56	V1: 180W, 3.2A V2: 10W, 2A	V1: 90W, 1.61A V2: 5W, A1	V1: 140W, 2.5A V2: 10W, 2A	V1: 70W, 1.25A V2: 5W, 1A	V1: 252W, 4.5A V2: 15W, 3A	V1: 125W, 2.23A V2: 7.5W, 1.5A

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
GCS265PS12	V1: 250W, 20.8A V2: 15W, 3A	V1: 125W, 10.4A V2: 7.5W, 1.5A	V1: 250W, 20.8A V2: 15W, 3A	V1: 125W, 10.4A V2: 7.5W, 1.5A	V1: 250W, 20.8A V2: 15W, 3A	V1: 125W, 10.4A V2: 7.5W, 1.5A
GCS265PS15	V1: 250W, 16.7A V2: 15W, 3A	V1: 125W, 8.3A V2: 7.5W, 1.5A	V1: 250W, 16.7A V2: 15W, 3A	V1: 125W, 8.3A V2: 7.5W, 1.5A	V1: 250W, 16.7A V2: 15W, 3A	V1: 125W, 8.3A V2: 7.5W, 1.5A
GCS265PS18	V1: 250W, 13.9A V2: 15W, 3A	V1: 125W, 6.9A V2: 7.5W, 1.5A	V1: 250W, 13.9A V2: 15W, 3A	V1: 125W, 6.9A V2: 7.5W, 1.5A	V1: 250W, 13.9A V2: 15W, 3A	V1: 125W, 6.9A V2: 7.5W, 1.5A
GCS265PS24	V1: 250W, 10.4A V2:15W, 3A	V1: 125W, 5.2A, V2: 7.5W, 1.5A	V1: 250W, 10.4A V2:15W, 3A	V1: 125W, 5.2A V2: 7.5W, 1.5A	V1: 250W, 10.4A V2:15W, 3A	V1: 125W, 5.2A V2: 7.5W, 1.5A
GCS265PS28	V1: 250W, 8.9A V2:15W, 3A	V1: 125W, 4.5A, V2: 7.5W, 1.5A	V1: 250W, 8.9A V2:15W, 3A	V1: 125W, 4.5A V2: 7.5W, 1.5A	V1: 250W, 8.9A V2:15W, 3A	V1: 125W, 4.5A V2: 7.5W, 1.5A
GCS265PS33	V1: 250W, 7.6A V2:15W, 3A	V1: 125W, 3.8A, V2: 7.5W, 1.5A	V1: 250W, 7.6A V2:15W, 3A	V1: 125W, 3.8A V2: 7.5W, 1.5A	V1: 250W, 7.6A V2:15W, 3A	V1: 125W, 3.8A V2: 7.5W, 1.5A
GCS265PS36	V1: 250W, 6.9A V2:15W, 3A	V1: 125W, 3.5A, V2: 7.5W, 1.5A	V1: 250W, 6.9A V2:15W, 3A	V1: 125W, 3.5A V2: 7.5W, 1.5A	V1: 250W, 6.9A V2:15W, 3A	V1: 125W, 3.5A V2: 7.5W, 1.5A
GCS265PS48	V1: 250W, 5.2A V2: 15W, 3A	V1: 125W, 2.6A V2: 7.5W, 1.5A	V1: 250W, 5.2A V2: 15W, 3A	V1: 125W, 2.6A V2: 7.5W, 1.5A	V1: 250W, 5.2A V2: 15W, 3A	V1: 125W, 2.6A V2: 7.5W, 1.5A
GCS265PS56	V1: 252W, 4.5A V2: 15W, 3A	V1: 125W, 2.23A V2: 7.5W, 1.5A	V1: 252W, 4.5A V2: 15W, 3A	V1: 125W, 2.25A V2: 7.5W, 1.5A	V1: 252W, 4.5A V2: 15W, 3A	V1: 125W, 2.23A V2: 7.5W, 1.5A

V2: 5V Standby Output

America

ATTACHMENT TO CERTIFICATE NO. B 14 10 57396 285 FOR XP POWER LLC.

Conditions of Acceptability:

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

The models require:

- The maximum continuous power supply output (Watts) relied on forced air cooling from: 7 cfm fan applied 1 inch from input side, blowing inward.
- The component shall be considered for compliance with the Marking (clause 7) and Separation (clause 8) requirements as part of the end use application evaluation.
- Scope of Power Supply evaluation defers the following clauses to the be determined as part of the end product: Clause 7.5 (Safety Signs), Clause 7.9 (Accompanying Documents), Clause 9 (ME Hazard), Clause 10 (Radiation), Clause 14 (PEMS), Clause 16 (ME Systems)
- 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 end product shall ensure that the requirements related to accompanying documents, clause 7.9, are met.
- The input/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):2 MOPP based upon a working voltage 336 Vpk, 240 Vrms between Primary to Secondary, one MOPP based upon a working voltage 352Vpk, 244 Vrms between Primary and Earth/Enclosure, and 1 MOPP based upon a working voltage 250Vac between secondary to earth trace on PWB.
- The Dielectric Strength Test conducted on this power supply was based upon a maximum working voltage of 352Vpk, 244 Vrms from Primary-Earthed Dead Metal, 336 Vpk, 240 Vrms from Primary-Secondary.
- Cleaning test shall be considered as part of end product evaluation.
- The need for Marking Durability and Marking Legibility Testing shall be considered as part of the end product installation.
- Fire/ Mechanical/ Electrical Enclosure to be provided as part of the end product.
- Temperature, Leakage Current, Protective Earthing, Dielectric Voltage Withstand, and Interruption of the Power Supply tests should be considered as part of the end product evaluation.
- The products were tested on a 20 A branch circuit. If used on a branch circuit greater than this, additional testing may be necessary.
- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJY2 insulation system with the indicated rating greater than Class A (105°C): L1, L4, T1 and 5V Standby-Transformer (T1) are Class F, 155°C.

America

ATTACHMENT TO CERTIFICATE NO. B 14 10 57396 285 FOR XP POWER LLC.

- The PWB is rated 130°C.
- For Class I applications: Unit to be properly bonded to end product main protective earth.
- Unit has been subjected to 5 day humidity condition test at 93%, 40°C.
- 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.
- Heatsinks are floating and considered live. They should not be accessible in the end-product.
- Clearance spacing evaluated for 5000 m altitude. Additional consideration maybe necessary in the end-use product.
- Heating test was not conducted on unit with input/output leads. If unit is provided with input and/or output leads, then temperature on leads must be measured and cannot exceed 105°C.
- The following components require special consideration during end-product Thermal (Heating) tests due to the indicated maximum temperature measurements during component-level testing: Model GC265PS12: PCB@Q1 coil (130°C); C22 (Stand-by board) (105°C); C27 (105°C).
- An investigation of the protective bonding terminals has: Not been conducted
- Overcurrent releases of adequate breaking capacity must be employed in 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).

America

CERTIFICATE

No. B 14 08 57396 279

Holder of Certificate: **XP Power LLC.**
1241 East Dyer Road, Suite 150
Santa Ana CA 92705
USA

Production Facility(ies): 59319, 71712

Certification Mark:

Product: **Power supply**
Power Supply

Model(s): **GCS265PSxx,**
(where xx can be number between 12 to 56 for output voltage; may be optionally followed by "-C" or "-TF" or "-EF" or blank, may also be provided with additional suffix "SF" or "S" or "R" or "L". All "-" are optional)

Parameters:

Input, AC:	100-240 V AC, 50/60 Hz, 3 A
Protection Class:	Class I or Class II at end use
Temperature, Ambient:	
	50°C with maximum output power with forced cooling
	70°C with half maximum output power with forced cooling

For further information, please see attachment.

Tested according to: EN 60950-1/A12:2011

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. See also notes overleaf.

Test report no.: SI1408352-000

Date, 2014-08-25

600198

America

ATTACHMENT TO CERTIFICATE NO. B 14 08 57396 279 FOR XP POWER LLC.

POWER SUPPLY

General Product information:

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

Model Differences:

All models in GCS265PSxx series are similar; the differences are the main transformer T1, some secondary components/circuitry for different output voltage ratings.

Approved models and Rated Outputs:

Model Number	DC OUTPUT (with 7 CFM Forced Cooling)				
	V1 Voltage (V)	Current (A)	V2 Voltage (V)	Max Current (A)	Total Power (W)
GCS265PS12	10.1-13.5	20.8	5	3	265
GCS265PS15	13.6-17	16.66	5	3	265
GCS265PS18	17.1-21	14.7	5	3	265
GCS265PS24	21.1-26	10.4	5	3	265
GCS265PS28	26.1-31	8.9	5	3	265
GCS265PS33	31.1-33	7.5	5	3	265
GCS265PS36	33.1-42	6.94	5	3	265
GCS265PS48	42.1-54	5.2	5	3	265
GCS265PS56	54.1-63.2	4.5	5	3	265
Note: V2 is the 5Vdc standby output					

Suffix:

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

William A Weatherall

America

ATTACHMENT TO CERTIFICATE NO. B 14 08 57396 279 FOR XP POWER LLC.

Output Power under different configurations:

Model Number	Convectional Cooling Without Cover		Convectional 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
GCS265PS12	V1:180W, 15A V2: 10W, 2A	V1: 90W, 7.5A V2: 5W, 1A	V1: 140W, 11.67A V2: 10W, 2A	V1: 70W, 5.83A V2: 5W, 1A	V1: 250W, 20.8 V2: 15W, 3A	V1: 125W, 10.4A V2: 7.5W, 1.5A
GCS265PS15	V1:180W, 12A V2: 10W, 2A	V1: 90W, 6A V2: 5W, 1A	V1: 140W, 9.33A V2: 10W, 2A	V1: 70W, 4.67A V2: 5W, 1A	V1: 250W, 16.7A V2: 15W, 3A	V1: 125W, 8.3A V2: 7.5W, 1.5A
GCS265PS18	V1:180W, 10A V2: 10W, 2A	V1: 90W, 5A V2: 5W, 1A	V1: 140W, 7.78A V2: 10W, 2A	V1: 70W, 3.89A V2: 5W, 1A	V1: 250W, 13.9A V2: 15W, 3A	V1: 125W, 6.9A V2: 7.5W, 1.5A
GCS265PS24	V1: 180W, 7.5A V2: 10W, 2A	V1: 90W, 3.75A V2: 5W, 1A	V1: 140W, 5.83A V2: 10W, 2A	V1: 70W, 2.92A, V2: 5W, 1A	V1: 250W, 10.4A V2: 15W, 3A	V1: 125W, 5.2A V2: 7.5W, 1.5A
GCS265PS28	V1: 180W, 6.4A V2: 10W, 2A	V1: 90W, 3.21A V2: 5W, 1A	V1: 140W, 5A V2: 10W, 2A	V1: 70W, 2.5A, V2: 5W, 1A	V1: 250W, 8.9A V2: 15W, 3A	V1: 125W, 4.5A V2: 7.5W, 1.5A
GCS265PS33	V1: 180W, 5.5A V2: 10W, 2A	V1: 90W, 2.72A V2: 5W, 1A	V1: 140W, 4.24A V2: 10W, 2A	V1: 70W, 2.12A, V2: 5W, 1A	V1: 250W, 7.6A V2: 15W, 3A	V1: 125W, 3.8A V2: 7.5W, 1.5A
GCS265PS36	V1: 180W, 5A V2: 10W, 2A	V1: 90W, 2.5A V2: 5W, 1A	V1: 140W, 3.89A V2: 10W, 2A	V1: 70W, 1.94A, V2: 5W, 1A	V1: 250W, 6.9A V2: 15W, 3A	V1: 125W, 3.5A V2: 7.5W, 1.5A
GCS265PS48	V1: 180W, 3.75A V2: 10W, 2A	V1: 90W, 1.875A V2: 5W, 1A	V1: 140W, 2.92A V2: 10W, 2A	V1: 70W, 1.46A V2: 5W, 1A	V1: 250W, 5.2A V2: 15, 3A	V1: 125W, 2.6A V2: 7.5W, 1.5A
GCS265PS56	V1: 180W, 3.2A V2: 10W, 2A	V1: 90W, 1.61A V2: 5W, A1	V1: 140W, 2.5A V2: 10W, 2A	V1: 70W, 1.25A V2: 5W, 1A	V1: 252W, 4.5A V2: 15W, 3A	V1: 125W, 2.23A V2: 7.5W, 1.5A

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
GCS265PS12	V1: 250W, 20.8A V2: 15W, 3A	V1: 125W, 10.4A V2: 7.5W, 1.5A	V1: 250W, 20.8A V2: 15W, 3A	V1: 125W, 10.4A V2: 7.5W, 1.5A	V1: 250W, 20.8A V2: 15W, 3A	V1: 125W, 10.4A V2: 7.5W, 1.5A
GCS265PS15	V1: 250W, 16.7A V2: 15W, 3A	V1: 125W, 8.3A V2: 7.5W, 1.5A	V1: 250W, 16.7A V2: 15W, 3A	V1: 125W, 8.3A V2: 7.5W, 1.5A	V1: 250W, 16.7A V2: 15W, 3A	V1: 125W, 8.3A V2: 7.5W, 1.5A
GCS265PS18	V1: 250W, 13.9A V2: 15W, 3A	V1: 125W, 6.9A V2: 7.5W, 1.5A	V1: 250W, 13.9A V2: 15W, 3A	V1: 125W, 6.9A V2: 7.5W, 1.5A	V1: 250W, 13.9A V2: 15W, 3A	V1: 125W, 6.9A V2: 7.5W, 1.5A
GCS265PS24	V1: 250W, 10.4A V2:15W, 3A	V1: 125W, 5.2A, V2: 7.5W, 1.5A	V1: 250W, 10.4A V2:15W, 3A	V1: 125W, 5.2A V2: 7.5W, 1.5A	V1: 250W, 10.4A V2:15W, 3A	V1: 125W, 5.2A V2: 7.5W, 1.5A
GCS265PS28	V1: 250W, 8.9A V2:15W, 3A	V1: 125W, 4.5A, V2: 7.5W, 1.5A	V1: 250W, 8.9A V2:15W, 3A	V1: 125W, 4.5A V2: 7.5W, 1.5A	V1: 250W, 8.9A V2:15W, 3A	V1: 125W, 4.5A V2: 7.5W, 1.5A
GCS265PS33	V1: 250W, 7.6A V2:15W, 3A	V1: 125W, 3.8A, V2: 7.5W, 1.5A	V1: 250W, 7.6A V2:15W, 3A	V1: 125W, 3.8A V2: 7.5W, 1.5A	V1: 250W, 7.6A V2:15W, 3A	V1: 125W, 3.8A V2: 7.5W, 1.5A
GCS265PS36	V1: 250W, 6.9A V2:15W, 3A	V1: 125W, 3.5A, V2: 7.5W, 1.5A	V1: 250W, 6.9A V2:15W, 3A	V1: 125W, 3.5A V2: 7.5W, 1.5A	V1: 250W, 6.9A V2:15W, 3A	V1: 125W, 3.5A V2: 7.5W, 1.5A
GCS265PS48	V1: 250W, 5.2A V2: 15W, 3A	V1: 125W, 2.6A V2: 7.5W, 1.5A	V1: 250W, 5.2A V2: 15W, 3A	V1: 125W, 2.6A V2: 7.5W, 1.5A	V1: 250W, 5.2A V2: 15W, 3A	V1: 125W, 2.6A V2: 7.5W, 1.5A
GCS265PS56	V1: 252W, 4.5A V2: 15W, 3A	V1: 125W, 2.23A V2: 7.5W, 1.5A	V1: 252W, 4.5A V2: 15W, 3A	V1: 125W, 2.25A V2: 7.5W, 1.5A	V1: 252W, 4.5A V2: 15W, 3A	V1: 125W, 2.23A V2: 7.5W, 1.5A

V2: 5V Standby Output

William A Watts

America

ATTACHMENT TO CERTIFICATE NO. B 14 08 57396 279 FOR XP POWER LLC.

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 fire enclosure shall be provided in the end use equipment.
- Proper bonding to the end-product main protective earthing terminal is required when the power supply is installed in the Class I end product. Ground bond test shall be conducted at Class I end product.
- The power supply units provide double pole fusing (models without "SF" suffix); proper warning shall be provided at end product.
- Touch current test shall be conducted in the end-product evaluation.
- 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.

For CLASS I Installation:

The power supply shall be mounted in manner that it provides sufficient clearance and creepage distances between the hazardous parts and protectively earthed accessible conductive parts when installed in a Class I end product.

The protective bonding terminal of the power supply shall be reliably bonded to the main protective earthing terminal of the end product when installed in a Class I end product.

For CLASS II Installation:

The power supply shall be mounted in manner that it provides sufficient clearance and creepage distance between the hazardous parts and accessible conductive parts when installed in a Class II end product.

William A Whitlock

ZERTIFIKAT • CERTIFICATE • 認證證書 • СЕРТИФИКАТ • CERTIFICADO • CERTIFICAT

America

CERTIFICATE

No. B 15 06 57396 330

Holder of Certificate: XP Power LLC.

15641 Red Hill Avenue, Suite 100
Tustin CA 92780
USA

Production Facility(ies): 59319, 71712, 89850

Certification Mark:

Product: Power supply

Model(s): GCS350PSxx
(where xx can be any number between 12 and 56 for output voltage; may be optionally followed by "-C" or "-TF" or "-EF" or blank, may also be provided with additional suffix "SF", "S", or "J". All "-" are optional)

Parameters:

Rated Input Voltage:	100-240 V AC
Rated Frequency:	50/60 Hz
Rated Input Current:	4.9 A
Rated output:	See attachment for output information
Protection Class:	Class I or Class II at end use
Temperature, Ambient:	50°C with maximum output power with forced cooling 70°C with half maximum output power with forced cooling
Others:	See attachment for conditions of acceptability

Tested according to: EN 60601-1:2006/A14:2014

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. See also notes overleaf.

Test report no.: 095-72105904-000

Valid until: 2020-06-01

Date, 2015-06-08

040527681802261

TÜV®

America

ATTACHMENT TO CERTIFICATE NO. B 15 06 57396 330 FOR XP POWER LLC.

POWER SUPPLY

Approved models and Rated Outputs:

Model Number	DC OUTPUT (with 7 CFM Forced Cooling)		
	V1 Voltage (V)	Max. Current (A)	Total Power (W)
GCS350PS12	10.1-13.5	29.2	350
GCS350PS15	13.6-17	23.3	350
GCS350PS18	17.1-21	19.4	350
GCS350PS24	21.1-26	14.6	350
GCS350PS28	26.1-31	12.5	350
GCS350PS33	31.1-33	10.6	350
GCS350PS36	33.1-42	9.72	350
GCS350PS48	42.1-54	7.29	350
GCS350PS56	54.1-60	6.25	350

Suffix:

C: Provided with cover,
TF: Provided with top fan,
EF: Provided with end fan,
SF: Provided with single pole fusing,
S: Provided with screw terminal block,
J: Provided with suffix "J" employs dual row output connector (J2),
Models without suffix "C", "TF" or "EF" are open frame models (without cover).

America

ATTACHMENT TO CERTIFICATE NO. B 15 06 57396 330 FOR XP POWER LLC.

Output Ratings under different configurations:

Model	Convectional Cooling							
	Max Output @50°C	Max Output @70°C	w/ Cover Max Output @50°C	w/ Cover Max Output @70°C	Max Output @40°C	w/ Cover Max Output @40°C	Max Output @30°C	w/ Cover Max Output @30°C
GCS350PS12	175W; 14.6A	87.5W; 7.3A	130W; 10.8A	65W; 5.42A	200W; 16.67A	170W; 14.17A	225W; 18.75W	175W; 14.6A
GCS350PS15	175W; 11.7A	87.5W; 5.83A	130W; 8.67A	65W; 4.33A	200W; 13.33A	170W; 11.33A	225W; 15A	175W; 11.7A
GCS350PS18	175W; 9.72A	87.5W; 4.86A	130W; 7.22A	65W; 3.61A	200W; 11.11A	170W; 9.44A	225W; 12.5A	175W; 9.72A
GCS350PS24	175W; 7.3A	87.5W; 3.65A	130W; 5.42A	65W; 2.71A	200W; 8.3A	170W; 7.1A	225W; 9.38A	175W; 7.3A
GCS350PS28	175W; 6.25A	87.5W; 3.13A	130W; 4.64A	65W; 2.32A	200W; 7.14A	170W; 6.07A	225W; 8.04A	175W; 6.25A
GCS350PS33	175W; 5.30A	87.5W; 2.65A	130W; 3.94A	65W; 1.97A	200W; 6.06A	170W; 5.15A	225W; 6.82A	175W; 5.30A
GCS350PS36	175W; 4.86A	87.5W; 2.43A	130W; 3.61A	65W; 1.81A	200W; 5.56A	170W; 4.72A	225W; 6.25A	175W; 4.86A
GCS350PS48	175W; 3.65A	87.5W; 1.82A	130W; 2.71A	65W; 1.35A	200W; 4.17A	170W; 3.54A	225W; 4.69A	175W; 3.65A
GCS350PS56	175W; 3.12A	87.5W; 1.56 A	130W; 2.32A	65W; 1.16A	200W; 3.57A	170W; 3.04A	225W; 4.02A	175W; 3.13A

Model	Forced-Air				Top Fan/End Fan	
	w/Cover Max Output @50°C (15 cfm)	w/Cover Max Output @70°C (15 cfm)	Max Output @50°C (15 cfm)	Max Output @70°C (15 cfm)	Max Output @50°C	Max Output @70°C
GCS350PS12	350W; 29.2A	175W; 14.6A	350W; 29.2A	175W; 14.6A	350W; 29.2A	175W; 14.6A
GCS350PS15	350W; 23.3A	175W; 11.7A	350W; 23.3A	175W; 11.7A	350W; 23.3A	175W; 11.7A
GCS350PS18	350W; 19.4A	175W; 9.72A	350W; 19.4A	175W; 9.72A	350W; 19.4A	175W; 9.72A
GCS350PS24	350W; 14.6A	175W; 7.3A	350W; 14.6A	175W; 7.3A	350W; 14.6A	175W; 7.3A
GCS350PS28	350W; 12.5A	175W; 6.25A	350W; 12.5A	175W; 6.25A	350W; 12.5A	175W; 6.25A
GCS350PS33	350W; 10.6A	175W; 5.30A	350W; 10.6A	175W; 5.30A	350W; 10.6A	175W; 5.30A
GCS350PS36	350W; 9.72A	175W; 4.86A	350W; 9.72A	175W; 4.86A	350W; 9.72A	175W; 4.86A
GCS350PS48	350W; 7.29A	175W; 3.65A	350W; 7.29A	175W; 3.65A	350W; 7.29A	175W; 3.65A
GCS350PS56	350W; 6.25A	175W; 3.12A	350W; 6.25A	175W; 3.12A	350W; 6.25A	175W; 3.12A

America

ATTACHMENT TO CERTIFICATE NO. B 15 06 57396 330
FOR XP POWER LLC.

Conditions of Acceptability:

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

The models require:

- The power supply was evaluated for use in ambient ranging from 30° C to 70° C depending upon the configuration. See the Output Ratings Table.
- The following end-product enclosures are required: Mechanical, Fire, Electrical.
- For an open frame (forced air) configuration without the Top or End Fan, the maximum continuous power supply output (Watts) relied on forced air cooling from: 15 cfm fan applied 1 inch from input side, blowing inward.
- This power supply was evaluated with Two MOPP between Primary and Secondary for 304Vpk/240Vrms; One MOPP primary and Earth for 340Vpk/240Vrms; Two MOPP between Secondary to Ground for working voltage of 60Vdc and 1 MOPP for working voltage of 240Vrms between Secondary and Earth of BF output considerations.
- Repeat of leakage current testing and consideration of non-frequency weighted leakage test shall be considered in the end product application.
- 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).
- Models provided with suffix SF only provided with one line side fuse. Consideration should be made in the end-use product to determine the need of double pole fusing.
- 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.
- Protective earthing testing shall be conducted in the end product application.
- Scope of Power Supply evaluation defers the following clauses to the be determined as part of the end product: Clause 7.5 (Safety Signs), Clause 7.9 (Accompanying Documents), Clause 9 (ME Hazard), Clause 10 (Radiation), Clause 14 (PEMS), Clause 16 (ME Systems).
- Scope of Power Supply evaluation excludes the following: Patient applied parts clauses: 4.6, 7.2.10, 8.3, 8.5.2, 8.5.5, 8.7.4.7-8.7.4.9, 8.9.1.15; Battery related clauses: 7.3.3, 15.4.3; Hand Control related clauses: 8.10.4; Oxygen related clauses: 11.2.2; Fluids related clauses: 11.6.2 – 11.6.4; Sterilization clause: 11.6.7; Biocompatibility Clause: 11.7 (ISO 10993); Motor related clauses: 13.2.13.3, 13.4; Heating Elements related clause: 13.2.
- 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).

ZERTIFIKAT • CERTIFICATE • 認證證書 • СЕРТИФИКАТ • CERTIFICADO • CERTIFICAT

America

CERTIFICATE

No. B 15 06 57396 341

Holder of Certificate: XP Power LLC.

15641 Red Hill Avenue, Suite 100
Tustin CA 92780
USA

Production Facility(ies): 59319, 71712, 89850

Certification Mark:

Product: Power supply

Model(s): **GCS350PSxx**
(where xx can be any number between 12 and 56 for output voltage; may be optionally followed by "-C" or "-TF" or "-EF" or blank, may also be provided with additional suffix "SF", "S", or "J". All "-" are optional)

Parameters:

Rated Input Voltage:	100-240 V AC
Rated Frequency:	50/60 Hz
Rated Input Current:	4.9 A
Rated output:	See attachment for output information
Protection Class:	Class I or Class II at end use
Temperature, Ambient:	50°C with maximum output power with forced cooling 70°C with half maximum output power with forced cooling
Others:	See attachment for conditions of acceptability

Tested according to: EN 60950-1:2006/A2:2013

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. See also notes overleaf.

Test report no.: 095-72107243-000

Valid until: 2020-06-29

Date, 2015-06-30

America

ATTACHMENT TO CERTIFICATE NO. B 15 06 57396 341 FOR XP POWER LLC.

POWER SUPPLY

Approved models and Rated Outputs:

Model Number	DC OUTPUT (with 7 CFM Forced Cooling)		
	V1 Voltage (V)	Max. Current (A)	Total Power (W)
GCS350PS12	10.1-13.5	29.2	350
GCS350PS15	13.6-17	23.3	350
GCS350PS18	17.1-21	19.4	350
GCS350PS24	21.1-26	14.6	350
GCS350PS28	26.1-31	12.5	350
GCS350PS33	31.1-33	10.6	350
GCS350PS36	33.1-42	9.72	350
GCS350PS48	42.1-54	7.29	350
GCS350PS56	54.1-60	6.25	350

Suffix:
C: Provided with cover,
TF: Provided with top fan,
EF: Provided with end fan,
SF: Provided with single pole fusing,
S: Provided with screw terminal block,
J: Provided with suffix "J" employs dual row output connector (J2),
Models without suffix "C", "TF" or "EF" are open frame models (without cover).

America

ATTACHMENT TO CERTIFICATE NO. B 15 06 57396 341 FOR XP POWER LLC.

Output Ratings under different configurations:

Model	Convectional Cooling							
	Max Output @50°C	Max Output @70°C	w/ Cover Max Output @50°C	w/ Cover Max Output @70°C	Max Output @40°C	w/ Cover Max Output @40°C	Max Output @30°C	w/ Cover Max Output @30°C
GCS350PS12	175W; 14.6A	87.5W; 7.3A	130W; 10.8A	65W; 5.42A	200W; 16.67A	170W; 14.17A	225W; 18.75W	175W; 14.6A
GCS350PS15	175W; 11.7A	87.5W; 5.83A	130W; 8.67A	65W; 4.33A	200W; 13.33A	170W; 11.33A	225W; 15A	175W; 11.7A
GCS350PS18	175W; 9.72A	87.5W; 4.86A	130W; 7.22A	65W; 3.61A	200W; 11.11A	170W; 9.44A	225W; 12.5A	175W; 9.72A
GCS350PS24	175W; 7.3A	87.5W; 3.65A	130W; 5.42A	65W; 2.71A	200W; 8.3A	170W; 7.1A	225W; 9.38A	175W; 7.3A
GCS350PS28	175W; 6.25A	87.5W; 3.13A	130W; 4.64A	65W; 2.32A	200W; 7.14A	170W; 6.07A	225W; 8.04A	175W; 6.25A
GCS350PS33	175W; 5.30A	87.5W; 2.65A	130W; 3.94A	65W; 1.97A	200W; 6.06A	170W; 5.15A	225W; 6.82A	175W; 5.30A
GCS350PS36	175W; 4.86A	87.5W; 2.43A	130W; 3.61A	65W; 1.81A	200W; 5.56A	170W; 4.72A	225W; 6.25A	175W; 4.86A
GCS350PS48	175W; 3.65A	87.5W; 1.82A	130W; 2.71A	65W; 1.35A	200W; 4.17A	170W; 3.54A	225W; 4.69A	175W; 3.65A
GCS350PS56	175W; 3.12A	87.5W; 1.56 A	130W; 2.32A	65W; 1.16A	200W; 3.57A	170W; 3.04A	225W; 4.02A	175W; 3.13A

Model	Forced-Air				Top Fan/End Fan	
	w/Cover Max Output @50°C (15 cfm)	w/Cover Max Output @70°C (15 cfm)	Max Output @50°C (15 cfm)	Max Output @70°C (15 cfm)	Max Output @50°C	Max Output @70°C
GCS350PS12	350W; 29.2A	175W; 14.6A	350W; 29.2A	175W; 14.6A	350W; 29.2A	175W; 14.6A
GCS350PS15	350W; 23.3A	175W; 11.7A	350W; 23.3A	175W; 11.7A	350W; 23.3A	175W; 11.7A
GCS350PS18	350W; 19.4A	175W; 9.72A	350W; 19.4A	175W; 9.72A	350W; 19.4A	175W; 9.72A
GCS350PS24	350W; 14.6A	175W; 7.3A	350W; 14.6A	175W; 7.3A	350W; 14.6A	175W; 7.3A
GCS350PS28	350W; 12.5A	175W; 6.25A	350W; 12.5A	175W; 6.25A	350W; 12.5A	175W; 6.25A
GCS350PS33	350W; 10.6A	175W; 5.30A	350W; 10.6A	175W; 5.30A	350W; 10.6A	175W; 5.30A
GCS350PS36	350W; 9.72A	175W; 4.86A	350W; 9.72A	175W; 4.86A	350W; 9.72A	175W; 4.86A
GCS350PS48	350W; 7.29A	175W; 3.65A	350W; 7.29A	175W; 3.65A	350W; 7.29A	175W; 3.65A
GCS350PS56	350W; 6.25A	175W; 3.12A	350W; 6.25A	175W; 3.12A	350W; 6.25A	175W; 3.12A

America

ATTACHMENT TO CERTIFICATE NO. B 15 06 57396 341 FOR XP POWER LLC.

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 shall be provided in the end use equipment.
- The end-product Electric Strength Test is to be based upon a maximum working voltage of: Primary- SELV: 280 Vrms / 484 Vpk, Primary-Earthed Dead Metal: 240 Vrms / 400 VpkThe end-product Electric Strength Test is to be based upon a maximum working voltage of: Primary-Earthed Dead Metal: 172 Vrms, 392 Vpk; Primary-SELV: 172 Vrms, 392 Vpk.
- Secondary output is at Hazardous Energy level for all models, additional compliance at end product.
- Proper bonding to the end-product main protective earthing terminal is required at Class I end product.
- When installed in the end product, sufficient clearance and creepage distance shall be provide between hazardous part and accessible part.
- Touch current test shall be repeated at end product.
- End product to determine the need for "Double Pole Fuse" Marking for units provided with double pole fusing.
- The maximum continuous power supply output (Watts) relied on forced air cooling from: 15 CFM Fan applied 1 inch from input side blowing inward.
- 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.
- Heatsinks are floating and considered live. Heatsinks should not be accessible in the end-product.