



America

# CERTIFICATE

No. B 12 01 57396 134

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):

RCL175PXY Series,  
(where X can be S, D, T or Q, indicating single, dual, triple or quad output configurations, YY can be 0 to 99, or AA-ZZ, representing output voltages from 3.3 to 60 V DC; may be followed by optional suffix U, C, F, or blank and/or W for various mechanical chassis options).

Model 101372-xx (where xx can be any alphanumeric characters or blank for different revision)

Parameters:

|                       |   |
|-----------------------|---|
| Rated Input Voltage:  | 100-240 V AC,   |
| Rated Frequency:      | 50/60 Hz  |
| Rated Input Current:  | 2.7 A   |
| Rated Output Voltage: | See attachment  |
| Protection Class:     | Class I or Class II at end use                          |
| Temperature, Ambient: | 50°C at 100% output power,<br>70°C at 50% output power. |

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.: 095-1200526-000

Date, 2012-01-23

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## ATTACHMENT TO CERTIFICATE NO. B 12 01 57396 134 FOR XP POWER LLC

### SWITCHING POWER SUPPLY

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

#### Output Ratings:

RCL175PXYX:

Up to 4 outputs can be provide:

V1: 3.3-60 VDC, V2: 3.3-60 VDC, V3: 3.3-60 VDC, V4: 3.3-60 VDC

The maximum total output power 175 W with 12CFM force fan cooling and 120W with convection cooling.

#### Optional suffix:

Without suffix: open frame with heat sinks

U: U-channel with heat sinks,

C: U-channel with cover,

F: U-channel with fan cover

Models followed with the suffix W are provided with two Y1 bridging capacitors (C41 and C41A) and provide

two MOPP between primary and secondary and Models without the suffix W are provided with one Y1 bridging capacitor (C41) and provide one MOPP between primary and secondary. When configured for Class II construction, with the suffix W, Capacitors C6A, C7A and C10A are also provided.

Model 101372-xx (where xx can be any alphanumeric characters or blank for different revision) is identical to Model RCL175PSAA provided with optional open frame fan assembly with exception to the model designation.

#### Conditions of Acceptability:

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

#### The models require:

- Suitable Fire/Mechanical/Electrical enclosure shall be provided as part of the end product.
- When installed into end product, sufficient clearance and creepage distance shall be provided between power supply and accessible conductive parts .
- 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 output circuits have not been evaluated for direct patient connection (Type B, BF or CF).
- The input/output connectors are not acceptable for field connections, they are only intended for connection to mating connectors of the end use equipment. .
- The power supplies have not been evaluated for use in the presence of flammable anesthetic mixture with air, oxygen or nitrous oxide.

(Continued)

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## ATTACHMENT TO CERTIFICATE NO. B 12 01 57396 134 FOR XP POWER LLC

- Proper bonding to the end-product main protective earthing terminal is required when the power supply is installed in the Class I end product.
- The product was not investigated to the following standards or clauses: Electromagnetic Compatibility (EN 60601-1-2) Clause 14, Programmable Electronic Systems, Biocompatibility (ISO 10993-1), additional evaluation shall be conducted at end use.
- 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
  - Flammable Anesthetic Mixtures Protection: Annex G

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# CERTIFICATE

No. B 13 05 57396 205

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): **RCL175PXY Series  
(where X can be S, D, T or Q, indicating single, dual, triple or quad output configurations, YY can be 00 to 99, or AA-ZZ, representing output voltages from 3.3 to 60 V DC; may be followed by optional suffix U, C, F, or blank for various mechanical chassis options).**

Parameters:

|                       |  |
|-----------------------|--|
| Rated Input Voltage:  | 100-240 VAC  |
| Rated Frequency:      | 50/60 Hz   |
| Rated Input Current:  | 2.7 A max  |
| Rated Output Ratings: | See attachment   |
| Protection Class:     | Class I or Class II at end use   |
| Temperature, Ambient: | 50°C with maximum output power,<br>70°C for 50% of maximum output power. |

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.: S11305205101-000

Date, 2013-05-23  
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## ATTACHMENT TO CERTIFICATE NO. B 13 05 57396 205 FOR XP POWER LLC

### POWER SUPPLY

Power supply model RCL175PXY series are AC/DC component type switching power supplies for building-in.

#### Output Ratings:

Up to 4 outputs can be provide:

V1: 3.3-60 VDC, V2: 3.3-60 VDC, V3: 3.3-60 VDC, V4: 3.3-60 VDC

The maximum total output power 175 W with 12CFM force fan cooling and 120W with convection cooling.

#### Optional suffix:

U: U-channel with heat sinks,

C: U-channel with cover,

F: U-channel with fan cover

Without suffix: open frame with heat sinks

#### 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. Ground bond test shall be conducted at end product.
- The power supply shall be mounted in manner that provides sufficient clearance and creepage distances between the hazardous parts and protectively earthed accessible conductive parts when installed in end product.
- The power supply units provide double pole fusing, proper warning shall be provided at end product.
- Model RCL175PS12, RCL175PS24, RCL175PS60, RCL175PD22, RCL175PQ42, RCL175PQ43, RCL175PQ45, RCL175PQ47, RCL175PQ60 have output(s) at hazardous energy level, additional compliance shall be evaluated at end system.

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