

Ruijie RG-PA1000I-P-F Power Module Datasheet V1.1

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1. Product Overview

The RG-PA1000I-P-F is an AC modules (AC/HVDC input and DC output) providing an output voltage of 56 V and an output power of up to 1000 W (PoE power: 740 W).

2. Product Appearance



Figure 1 Appearance of the RG-PA1000I-P-F

3. Product Feature

Power Supply Redundancy

The RG-PA1000I-P-F supports power redundancy when the PoE power consumption is less than 740 W. Dual power supply modules are connected in parallel for current sharing.

Hot Swapping

The RG-PA1000I-P-F supports to disconnect one redundant power supply module from the outside power supply system, plug and unplug power supply modules while the device is powered on.

Security Protection Policies

The RG-PA1000I-P-F provides undervoltage protection, output overcurrent protection, output overvoltage protection and output short circuit protection.

Conformal Coating

Protects circuits against moisture, frog, mold, electrical shock and leakage, and so on.

I2C Communication

Allows the host to communicate with the power supply module by I2C.

Power Supply Alarm

The RG-PA1000I-P-F supports power supply alarm. When a power fault occurs, the output status LED turns off.

4. Product Specification

Technical Specification

| Power Model | RG-PA1000I-P-F |
|-------------------------------------|--|
| Input Specifications | |
| Rated input voltage | AC input: 100 V AC to 240 V AC; 50 to 60 Hz HVDC input: 240 V DC |
| Maximum input voltage | AC input: 90 V AC to 264 V AC; 47 to 63 Hz HVDC input: 192 V DC to 290 V DC |
| Maximum input current | 90 V AC input: 12 A 176 V AC input: 8 A |
| Input leakage current | ≤ 1.75 mA |
| Output Specifications | |
| Output voltage | 56 V |
| Maximum output current | 90 V AC to 176 V AC input: 16.61 A 176 V AC to 290 V AC input: 17.86 A |
| Maximum output power | 90 V AC to 176 V AC input: 930 W 176 V AC to 290 V AC input: 1000 W |
| PoE output power | 90 V AC to 176 V AC input: < 930 W 176 V AC to 290 V AC input: < 1000 W |
| Dimensions and Weight | |
| Dimensions (W x D x H) | 196 mm x 90 mm x 40mm (7.72 in. x 3.54 in. x 1.57 in.) |
| Weight | Net weight: 1 kg (2.20 lbs.) |
| Environmental Specifications | |
| Primary airflow | Rear-to-front: Air intake from the connector and air outlet from the front panel |
| Operating temperature | -10°C to +55°C (14°F to 131°F) |

| | |
|-----------------------------|--|
| Power Model | RG-PA1000I-P-F |
| Storage temperature | -40°C to +70°C (-40°F to +158°F) |
| Operating humidity | 5% to 95% (non-condensing) |
| Storage humidity | 5% to 95% (non-condensing) |
| Operating altitude | -500 m to +5,000 m (-1640.42 ft. to +16404.20 ft.) |
| Other Specifications | |
| Power cord requirement | 10A power cord |

LED

There is one power module LED on the panel of the RG-PA1000I-P-F. It is used to indicate the output status of the power module.

| LED | Status | Meaning |
|-------------------|-------------|---|
| Output Status LED | Off | The power supply module is not connected with a power cord. |
| | Solid Red | A power output error occurs, including fan fault, output short-circuit, output overcurrent protection, output overvoltage protection, power supply failure and overheat protection. |
| | Solid Green | The power supply module is outputting power normally. |

5. Ordering Information

| Model | Description |
|----------------|--|
| RG-PA1000I-P-F | 1000 W AC PoE module (supports HVDC input) |

Applicable switches for the RG-PA1000I-P-F:

| Series | Model |
|--------------------------|----------------------------|
| RG-S5310-E Series | RG-S5310-24GT4XS-P-E |
| | RG-S5310-48GT4XS-P-E |
| RG-S5760C-X Series | RG-S5760C-48GT4XS-HP-X |
| RG-S6100 Series Multi-GE | RG-S6110-48MG4VS2QXS-UP |
| | RG-S6120-24XMG4XS4VS-UP-H |
| | RG-S6120-48XMG4VS2QXS-UP-H |
| RG-CS85 Series | RG-CS85-48GT4XS-HPD |
| RG-CS83-PD Series | RG-CS83-24GT4XS-PD |
| | RG-CS83-48GT4XS-PD |
| RG-CS86 Series | RG-CS86-48MG4VS2QXS-UPD |
| | RG-CS86-24XMG4XS4VS-UPD |

6. Warranty

For more information about warranty terms and period, contact your local sales agency:

Warranty terms: <https://www.ruijienetworks.com/support/servicepolicy>

Warranty period: https://www.ruijienetworks.com/support/service_41

Note: The warranty terms are subject to the terms of different countries and distributors.

7. More Information

For more information about Ruijie Networks, visit the official Ruijie website or contact your local sales agency:

Ruijie Networks official website: <https://www.ruijienetworks.com/>

Online support: <https://www.ruijienetworks.com/support>

Hotline support: <https://www.ruijienetworks.com/support/hotline>

Email support: service_rj@ruijienetworks.com