

# **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
<b>Input Specifications</b>	
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
<b>Output Specifications</b>	
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
<b>Dimensions and Weight</b>	
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.)
<b>Environmental Specifications</b>	
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)

<b>Power Model</b>	<b>RG-PA1000I-P-F</b>
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.)
<b>Other Specifications</b>	
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](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](mailto:service_rj@ruijienetworks.com)