

# **Ruijie RG-PA600I-P-F, PD600I-P-F Power Module Datasheet V1.1**

Ruijie Networks Co., Ltd.

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## 1. Product Overview

The RG-PA600I-P-F is an AC module (AC/HVDC input and DC output) providing an output voltage of 56 V and an output power of up to 600 W (PoE power: less than 600 W).

The RG-PD600I-P-F is a DC module (DC input and DC output) providing an output voltage of 56 V and an output power of up to 600 W (PoE power: less than 600 W).

## 2. Product Appearance



Figure 1 Appearance of the RG-PA600I-P-F



Figure 2 Appearance of the RG-PD600I-P-F

## 3. Product Feature

### Power Supply Redundancy

The RG-PA600I-P-F and RG-PD600I-P-F support power redundancy when the PoE power consumption is less than 370 W. Dual power supply modules are connected in parallel for current sharing.

### Hot Swapping

The RG-PA600I-P-F and RG-PD600I-P-F support 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-PA600I-P-F and RG-PD600I-P-F provide 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-PA600I-P-F and RG-PD600I-P-F support power supply alarm. When a power fault occurs, the output status LED turns off.

## 4. Product Specification

### Technical Specification

Power Model	RG-PA600I-P-F	RG-PD600I-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	DC Input: -48 V DC to -60 V DC

Power Model	RG-PA600I-P-F	RG-PD600I-P-F
Maximum input voltage	AC input: 90 V AC to 290 V AC; 47 to 63 Hz HVDC input: 192 V DC to 290 V DC	DC Input: -38 V DC to -75 V DC
Maximum input current	AC input: 8 A HVDC input: 4 A	20 A
Input leakage current	≤1.75 mA	\
<b>Output Specifications</b>		
Output voltage	56 V	56 V
Maximum output current	10.72 A	10.72 A
Maximum output power	600 W	600 W
PoE output power	< 600 W	< 600 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.)	196 mm x 90 mm x 40mm (7.72 in. x 3.54 in. x 1.57 in.)
Weight	Net weight: 0.9 kg (1.98 lbs.)	Net weight: 0.9 kg (1.98 lbs.)
<b>Environmental Specifications</b>		
Primary airflow	Rear-to-front: Air intake from the connector and air outlet from the front panel	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)	-10°C to +55°C (14°F to 131°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)
Operating humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)
Storage humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)
Operating altitude	-500 m to +5,000 m (-1640.42 ft. to 16404.20 ft.)	-500 m to +5,000 m (-1640.42 ft. to 16404.20 ft.)
<b>Other Specifications</b>		
Power cord requirement	10 A power cord	DC power cord equal to or greater than 2.5 mm <sup>2</sup>

## LED

There is one power module LED on the panel of the RG-PA600I-P-F and RG-PD600I-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.
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## 5. Ordering Information

Model	Description
RG-PA600I-P-F	1600 W AC PoE module (supports HVDC input)
RG-PD600I-P-F	1600 W DC PoE module (supports HVDC input)

Applicable switches for the RG-PA600I-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

Applicable switches for the RG-PD600I-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

## 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)