



Ruijie RG-PA600I-P-F, PD600I-P-F Power Module Datasheet V1.0

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
Input Specifications		
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

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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	\
Output Specifications		
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
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.)	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.)
Environmental Specifications		
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.)
Other Specifications		
Power cord requirement	10 A power cord	DC power cord equal to or greater than 2.5 mm ²

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

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

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:

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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