

Ruijie RG-PA600, PD600 Series Power Module Datasheet V1.1

Ruijie Networks Co., Ltd.

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1. Product Overview

The RG-PA600I-F, and RG-PA600I are AC modules (AC/HVDC input and DC output) providing an output power of up to 600 W and an output voltage of 12 V.

The RG-PD600I-F, and RG-PD600I are DC modules (DC input and DC output) providing an output power of up to 600 W and an output voltage of 12 V.

2. Product Appearance



Figure 1 Appearance of the RG-PA600I-F



Figure 2 Appearance of the RG-PA600I



Figure 3 Appearance of the RG-PD600I-F



Figure 4 Appearance of the RG-PD600I

3. Product Feature

Power Supply Redundancy

The RG-PA600I-F, RG-PA600I, RG-PD600I-F, and RG-PD600I support power redundancy. Dual or multiple power supply modules are connected in parallel for current sharing.

Hot Swapping

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

4. Product Specification

Technical Specification

Power Model	RG-PA600I-F	RG-PA600I	RG-PD600I-F	RG-PD600I
Input Specifications				
Rated input voltage	AC Input: 100 V AC to 240 V AC, 50 Hz to 60 Hz HVDC Input: 240 V DC	AC Input: 100 V AC to 240 V AC, 50 Hz to 60 Hz HVDC Input: 240 V DC	DC Input: -48 V DC to 60 V DC	DC Input: -48 V DC to 60 V DC
Maximum input voltage	AC Input: 90 V AC to 264 V AC, 47 Hz to 63 Hz HVDC Input: 192 V DC to 290 V DC	AC Input: 90 V AC to 264 V AC, 47 Hz to 63 Hz HVDC Input: 192 V DC to 290 V DC	DC Input: -40 V DC~-75 V DC	DC Input: -38 V DC to -75 V DC

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Power Model	RG-PA600I-F	RG-PA600I	RG-PD600I-F	RG-PD600I
Maximum input current	10 A	10 A	17 A	20 A
Input leakage current	≤ 0.85 mA	≤ 0.85 mA	\	\
Output Specifications				
Output voltage	12 V, 5 VSB	12 V, 5 VSB	12 V, 5 VSB	12 V, 5 VSB
Maximum output current	12 V output: 50 A 5 VSB output: 2 A	12 V output: 50A 5 VSB output: 2A	12 V output: 50A 5 VSB output: 2A	12 V output: 50 A 5 VSB output: 2 A
Maximum output power	600 W	600 W	600 W	600 W
Dimensions and Weight				
Dimensions (W x D x H)	327.5 mm x 101.5 mm x 40.7 mm (12.89 in. x 4.00 in. x 1.60 in.)	327.5 mm x 101.5 mm x 40.7 mm (12.89 in. x 4.00 in. x 1.60 in.)	327.5 mm x 101.5 mm x 40.7 mm (12.89 in. x 4.00 in. x 1.60 in.)	327.5 mm x 101.5 mm x 40.7 mm (12.89 in. x 4.00 in. x 1.60 in.)
Weight	Net weight: 1.64 kg (3.61 lbs.)	Net weight: 1.64 kg (3.61 lbs.)	Net weight: 1.30 kg (2.87 lbs.)	Net weight: 1.30 kg (3.28 lbs.)
Environmental Specifications				
Primary airflow	Front-to-rear: Air intake from the front panel and air outlet from the connector	Rear-to-front: Air intake from the connector and air outlet from the front panel	Front-to-rear: Air intake from the front panel and air outlet from the connector	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)	0 °C to 50°C (32°F to 122°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)	-40°C to +70°C (-40°F to 158°F)	-40°C to +70°C (-40°F to 158°F)
Operating humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Storage humidity	5% to 95% (non-condensing)	5% to 95% (non-condensing)	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.)	2000 m	-500 m to 5,000 m (-1640.42 ft. to +16404.20 ft.)
Other Specifications				
Power cord requirement	10 A power cord	10 A power cord	20 A power cord	DC power cord equal to or greater than 4 mm ²

LED

There are two power supply status LEDs on the RG-PA600I-F and RG-PA600I power module panel to indicate the input and output status of the power supply.

LED		Meaning
AC	DC/FLT	
Solid green	Solid green	The module is operational
Solid green	Solid orange	Temperature alarm
Solid green	Solid red	Overvoltage
Solid green	Solid red	Overcurrent
Solid green	Solid red	Over-temperature fault
Solid green	Solid red	PSR on/off
Off	Solid red	There is no power input or input undervoltage.

There are two power supply status LEDs on the RG-PD600I-F and RG-PD600I power module panel to indicate the input and output status of the power supply.

LED		Meaning
AC	DC/FLT	
Solid green	Solid green	The module is operational
Solid green	Solid orange	Temperature alarm
Solid green	Solid red	There is external power supply. The power module is not in use.
Solid green	Solid red	Output overcurrent protection
Solid green	Solid red	Over-temperature protection
Solid green	Solid red	PSR on/off
Solid green	Solid red	Phase loss protection
Solid green	Solid red	Fan failure
Off	Solid red	There is no external power supply. The power module is in use.
Off	Solid red	Input undervoltage

5. Ordering Information

Model	Description
RG-PA600I-F	600 W AC power supply module (supprts HVDC input)
RG-PA600I	600 W AC power supply module (supprts HVDC input)

RG-PD600I-F	600 W DC power supply module
RG-PD600I	600 W DC power supply module

Applicable switches for the RG-PA600I-F, RG-PA600I, RG-PD600I-F, and RG-PD600I:

Model	Switches Series	Switches Model
RG-PA600I-F	RG-S7800C series	RG-S7808C
	RG-CS88 series	RG-CS88-08
RG-PA600I	RG-S7800C series	RG-S7810C
	RG-N18000 series	RG-N18007
		RG-N18010
		RG-N18012
		RG-N18014
	RG-N18000-E series	RG-N18010-E
RG-N18014-E		
RG-PD600I-F	RG-S7800C series	RG-S7808C
RG-PD600I	RG-S7800C series	RG-S7810C
	RG-N18000 series	RG-N18007
		RG-N18010
		RG-N18012
		RG-N18014
	RG-N18000-E series	RG-N18010-E
RG-N18014-E		

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>

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

Email support: service_rj@ruijienetworks.com