

Ruijie RG-PA300, PA460 Series Power Module Datasheet V1.0

Ruijie Networks Co., Ltd.

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1. Product Overview

The RG-PA300I-F is an AC (AC/HVDC input and DC output) modules providing an output voltage of 12 V and an output power of up to 300 W.

The RG-PA460I-F and RG-PA460-RI are AC (AC/HVDC input and DC output) modules providing an output voltage of 12 V and an output power of up to 460 W.

2. Product Appearance



Figure 1 Appearance of the RG-PA300I-F



Figure 2 Appearance of the RG-PA460I-F



Figure 3 Appearance of the RG-PA460-RI

3. Product Feature

Power Supply Redundancy

The RG-PA300I-F, RG-PA460I-F, and RG-PA460-RI support power redundancy. Dual power supply modules are connected in parallel for current sharing.

Hot Swapping

The RG-PA300I-F, RG-PA460I-F, and RG-PA460-RI 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-PA300I-F, RG-PA460I-F, and RG-PA460-RI 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-PA300I-F, RG-PA460I-F, and RG-PA460-RI support power supply alarm. When a power fault occurs, the output status LED turns off.

4. Product Specification

Technical Specification

Power Model	RG-PA300I-F	RG-PA460I-F	RG-PA460-RI
Input Specifications			
Rated input voltage	AC input: 100V to 240V; 50Hz to 60Hz HVDC input: 240 V DC	AC input: 100V to 240V; 50Hz to 60Hz HVDC input: 240 V DC to 336 V DC	AC input: 100 to 240V; 50Hz to 60Hz HVDC input: 240 V DC to 336 V DC
Maximum input voltage	AC input: 90 V AC to 290 V AC; 47 Hz to 63 Hz HVDC input: 192 V DC to 288 V DC	AC input: 90V AC to 290V AC; 47Hz to 63Hz HVDC input:192 V DC to 288V DC	AC input: 90 V to 290 V AC, 47 Hz to 63 Hz HVDC: 192 V DC to 288 V DC
Maximum input current	5A	AC input: 6 A HVDC input: 3A	AC input: 6 A HVDC input: 3A
Input leakage current	≤ 1.5 mA	≤ 3.5 mA	≤ 3.5 mA
Output Specifications			
Output voltage	12 V, 12 VSB	12 V, 12 VSB	12 V, 12 VSB
Maximum output current	12 V output: 25 A 12 VSB output: 0.5 A	12 V output: 36 A 12 VSB output: 2.3 A	12 V output: 36 A 12 VSB output: 2.3 A
Maximum output power	300 W	460 W	460 W
Dimensions and Weight			
Dimensions (W x D x H)	208.0 mm x 86.4 mm x 40.5 mm (8.19 in. x 3.40 in. x 1.59 in.)	208.0 mm x 86.4 mm x 40.5 mm (8.19 in. x 3.40 in. x 1.59 in.)	208.0 mm x 86.4 mm x 40.5 mm (8.19 in. x 3.40 in. x 1.59 in.)
Weight	Net weight: 0.85 kg (1.87 lbs.)	Net weight: 0.9 kg (1.98 lbs.)	Net weight: 0.9 kg (1.98 lbs.)
Environmental Specifications			

Power Model	RG-PA300I-F	RG-PA460I-F	RG-PA460-RI
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	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)	-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)
Operating humidity	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)
Operating altitude	5,000 m (16404.20 ft.) max	5,000 m (16404.20 ft.) max	5,000 m (16404.20 ft.) max
Storage altitude	5,000 m (16404.20 ft.) max	5,000 m (16404.20 ft.) max	5,000 m (16404.20 ft.) max
Other Specifications			
Power cord requirement	10 A power cord	10 A power cord	10 A power cord

LED

There is one power module LED on the panel of the RG-PA300I-F. It is used to indicate the input and output status of the power module.

LED	Status	Meaning
Status LED	Off	A power fault occurs or there is no power input.
	Solid green	The module is operational

There is one power module LED on the panel of the RG-PA460I-F. It is used to indicate the output status of the power module.

LED	Status	Meaning
Output LED	Off	There is no power output or an output error occurs.
	Solid green	Output is OK.

There is one power module LED on the panel of the RG-PA460-RI. It is used to indicate the input and output status of the power module.

LED	Status	Meaning
Status LED	Off	There is no power input or the power module fails.

	Solid green	The power output is normal.
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5. Ordering Information

Model	Description
RG-PA300I-F	300 W AC power supply module (supports HVDC input)
RG-PA460I-F	460W AC power supply module (supports HVDC input)
RG-PA460-RI	460W AC power supply module (supports HVDC input)

Applicable switches for the RG-PA300I-F:

Switches Series	Switches Model
RG-S7800C Series Switches	RG-S7805C

Applicable switches for the RG-PA460I-F:

Series	Model
RG-S7800C Series Switches	RG-S7805C

Applicable routers for the RG-PA460-RI:

Series	Model
RG-RSR77-XA Series Router	RG-RSR77-XA-03

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/>

Datasheet

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

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

Email support: service_rj@ruijienetworks.com