Ruijie RG-PA1600 Series Power Module

Datasheet

V1.1

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1. Product Overview

The RG-PA1600I-F and RG-PA1600I are AC modules (AC/HVDC input and DC output) providing an output voltage of 12 V and an output power of up to 1600 W.

2. Product Appearance



Figure 1 Appearance of the RG-PA1600I-F



Figure 1 Appearance of the RG-PA1600I

3. Product Feature

Power Supply Redundancy

The RG-PA1600I-F and RG-PA1600I support power redundancy. Dual power supply modules are connected in parallel for current sharing.

Hot Swapping

The RG-PA1600I-F and RG-PA1600I 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-PA1600I-F and RG-PA1600I 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-PA1600I-F and RG-PA1600I support power supply alarm. When a power fault occurs, the output status LED turns off.

4. Product Specification

Technical Specification

Power Model	RG-PA1600I	RG-PA1600I-F
Input Specifications		
Rated input voltage	AC input: 100 V AC to 240 V AC; 50 to 60 Hz HVDC input: 240 V DC	AC input: 100 V AC to 240 V AC; 50 to 60 Hz HVDC input: 240 V DC

Power Model	RG-PA1600I	RG-PA1600I-F
Maximum input voltage	AC input: 90 V AC to 290 V AC; 47 to 63 Hz HVDC input: 192 V DC to 288 V DC	AC input: 90 V AC to 290V AC; 47 to 63 Hz HVDC input: 192 V DC to 288 V DC
Maximum input current	16 A	16 A
Input leakage current	≤ 3.5 mA	≤ 3.5 mA
Output Specifications		
Output voltage	12 V, 5 VSB	12 V, 5 VSB
Maximum output current	● 90 V to 176 V AC Input: 12 V output: 100 A 5 VSB output: 2A ● 176 V to 290 V AC Input: 12 V output: 133.4 A 5 VSB output: 2A	● 90 V to 176 V AC Input: 12 V output: 100 A 5 VSB output: 2A ● 176 V to 290 V AC Input: 12 V output: 133.4 A 5 VSB output: 2A
Maximum output power	90 V to 176 V AC Input: 1200 W 176 V to 290 V AC Input: 1600 W	90 V to 176 V AC Input: 1200 W 176 V to 290 V AC Input: 1600 W
Dimensions and Weight		
Dimensions (W x D x H)	327.5 mm × 101.5 mm × 40.7 mm (12.89 in. x 4.00 in. x 1.60 in.)	327.5 mm × 101.5 mm × 40.7 mm (12.89 in. x 4.00 in. x 1.60 in.)
Weight	Net weight: 2.04kg (4.50 lbs.)	Net weight: 2.04kg (4.50 lbs.)
Environmental Specifications		
Primary airflow	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
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	10% to 95% (non-condensing)	10% 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	16 A power cord	16 A power cord

LED

There are two power module LEDs on the panel of the RG-PA1600 Series. They are used to indicate the input and output status of the power module.

LED Status		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

5. Ordering Information

Model	Description
RG-PA1600I-F	1600 W AC power supply module (supports HVDC input)
RG-PA1600I	1600 W AC power supply module (supports HVDC input)

Applicable switches for the RG-PA1600I-F and RG-PA1600I:

Model	Switches Series	Switches Model
RG-PA1600I-F	RG-S7800C series	RG-S7808C
	RG-CS88 series	RG-CS88-08
RG-PA1600I	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

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

Email support: service_rj@ruijienetworks.com