

# **Ruijie RG-PA1600 Series Power Module Datasheet V1.0**

Ruijie Networks Co., Ltd.

All rights reserved.

# 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
<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	AC input: 100 V AC to 240 V AC; 50 to 60 Hz HVDC input: 240 V DC

## Datasheet

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
<b>Output Specifications</b>		
Output voltage	12 V, 5 VSB	12 V, 5 VSB
Maximum output current	<ul style="list-style-type: none"> <li>● 90 V to 176 V AC Input: 12 V output: 100 A 5 VSB output: 2A</li> <li>● 176 V to 290 V AC Input: 12 V output: 133.4 A 5 VSB output: 2A</li> </ul>	<ul style="list-style-type: none"> <li>● 90 V to 176 V AC Input: 12 V output: 100 A 5 VSB output: 2A</li> <li>● 176 V to 290 V AC Input: 12 V output: 133.4 A 5 VSB output: 2A</li> </ul>
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
<b>Dimensions and Weight</b>		
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.)
Weight	Net weight: 2.04kg (4.50 lbs.)	Net weight: 2.04kg (4.50 lbs.)
<b>Environmental Specifications</b>		
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.)
<b>Other Specifications</b>		
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-7800C
RG-PA1600I	RG-S7800C series	RG-S7810C
		RG-N18007
	RG-N18000 series	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](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)