

Ruijie RG-M5000E-AC500P Power Module Datasheet V1.0

Ruijie Networks Co., Ltd.

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1. Product Overview

The RG-M5000E-AC500P is an AC (AC/HVDC input and DC output) module providing an output voltage of 12 V and an output power of up to 440 W (PoE power: 370 W).

2. Product Appearance



Figure 1 Appearance of the RG-M5000E-AC500P

3. Product Feature

Power Supply Redundancy

The RG-M5000E-AC500P supports 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-M5000E-AC500P supports 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-M5000E-AC500P provides 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-M5000E-AC500P supports power supply alarm. When a power fault occurs, the output status LED turns off.

4. Product Specification

Technical Specification

Power Model	RG-M5000E-AC500P
Input Specifications	
Rated input voltage	AC input: 100 V AC to 240 V AC; 50 to 60 Hz HVDC input: 240 V DC
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
Maximum input current	7 A
Input leakage current	≤ 3.5 mA
Output Specifications	
Output voltage	53.5 V, 12 V
Maximum output current	53.5 V output: 7.11 A 12 V output: 5 A
Maximum output power	440 W
PoE output power	370 W
Dimensions and Weight	
Dimensions (W x D x H)	195.4 mm * 90 mm * 40 mm (7.69 in. x 3.54 in. x 1.57 in.)
Weight	Net weight: 0.9 kg (1.98 lbs.)
Primary airflow	Rear-to-front: Air intake from the connector and air outlet from the front panel
Operating temperature	-10°C to +50°C (14°F to +122°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)
Operating humidity	5% to 95% (non-condensing)
Storage humidity	5% to 95% (non-condensing)
Operating altitude	0 m to 5,000 m (0 ft. to 16404.20 ft.)

Power Model	RG-M5000E-AC500P
Other Specifications	
Power cord requirement	10 A power cord

LED

There are two power module LED on the panel of the RG-M5000E-AC500P Power Module. They are used to indicate the input and output status of the power module.

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

5. Ordering Information

Model	Description
RG-M5000E-AC500P	440 W AC PoE module (supports HVDC input)

Applicable switches for the RG-M5000E-AC500P:

Model	Switches Series	Switches Model
RG-M5000E-AC500P	RG-S5750-H Series	RG-S5750-48GT4XS-HP-H
	RG-S2910XS-E Series	RG-S2910C-24GT2XS-HP-E
		RG-S2910C-48GT2XS-HP-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