



■ Features :

- 1U low profile
- 19-inch rack mounting
- Control and monitor up to 3 RCP-1000 units
- Suitable for all kinds of RCP output (12V,24V,48V)
- Digital meters for output voltage, output current, and internal temperature on front panel
- Potential meter for adjusting output voltage of RCP-1000 unit on front panel
- Relay contacts and LED indicators for AC fail, DC fail, and over temperature warning
- Removable fixing accessory
- 3 years warranty

■ Description : RCP-MU is the monitoring and control unit used for the RCP-1000 series rack power. It can decode the I²C signal sent by RCP series and display through digital meters or relay contact signals. RCP-MU can also turn ON/OFF or trim the output voltage of RCP-1000 remotely that make the basic control more easily.



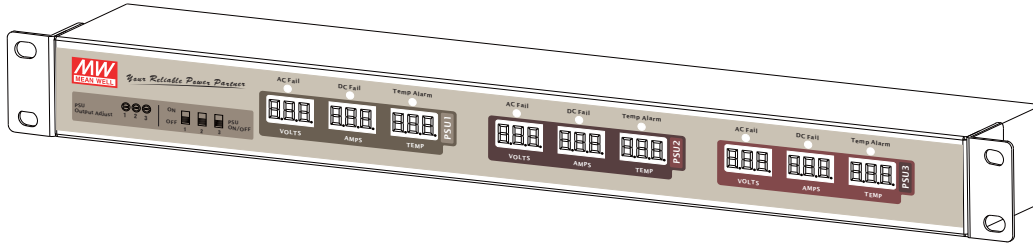
SPECIFICATION

| MODEL | | RCP-MU |
|--------------|--|--|
| INPUT | VOLTAGE RANGE | 90 ~ 264VAC 127 ~ 370VDC |
| | FREQUENCY RANGE | 47 ~ 63Hz |
| | AC CURRENT (Typ.) | 0.35A/115VAC 0.2A/230VAC |
| | INRUSH CURRENT (Typ.) | 30A/115VAC 50A/230VAC |
| | MONITORING INPUTS | I ² C signal (AC OK, DC OK, and over temperature alarm signals for each RCP-1000 unit), output voltage of the RCP-1U rack |
| OUTPUT | DIGITAL METER <small>Note.2</small> | Display the DC output voltage, current, and internal temperature of each RCP-1000 unit |
| | CONTROL OUTPUT | Remote ON/OFF and output voltage trimming for each RCP-1000 unit |
| | RELAY CONTACT | Alarm for AC Fail, DC Fail, and Over Temperature ; rating : 30VDC, 1A |
| | LED INDICATOR | AC Fail, DC Fail, Over Temperature |
| FUNCTION | REMOTE ON/OFF CONTROL | The controlled RCP-1000 unit can be turned ON/OFF on the front panel for RCP-MU |
| | VOLTAGE TRIM | Output voltage of the controlled RCP-1000 unit and be trimmed by ±10% on the front panel of RCP-MU |
| ENVIRONMENT | WORKING TEMP. | -20 ~ +60°C |
| | WORKING HUMIDITY | 20~90% RH non-condensing |
| | STORAGE TEMP., HUMIDITY | -40 ~ +85°C, 10 ~ 95% RH non-condensing |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes |
| SAFETY & EMC | SAFETY STANDARDS | Design refer to UL60950-1, TUV EN60950-1, EAC TP TC 004 approved |
| | WITHSTAND VOLTAGE | I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH |
| | EMC EMISSION | Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020 |
| | EMC IMMUNITY | Compliance to EN61000-4-2,3,4,5,6,8,11, EAC TP TC 020 |
| OTHERS | DIMENSION | 440*68*44mm (L*W*H) |
| | PACKING | 1.15Kg; 6pcs/8Kg/1.27CUFT |
| NOTE | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Resolution and tolerance of the values shown on the digital meter depends on the controlled RCP series. 3. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). | |

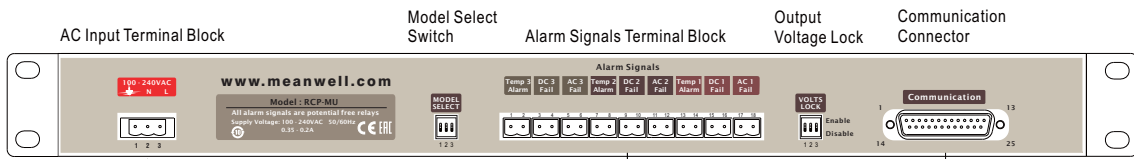
Mechanical Specification

Case No. 701A

Unit:mm



BACK



AC Input Terminal Block

| Pin No. | Assignment |
|---------|------------|
| 1 | FG \perp |
| 2 | AC/N |
| 3 | AC/L |

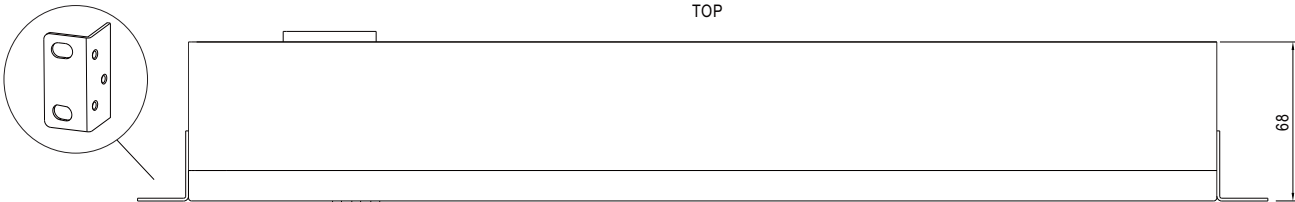
Alarm Signals Pin No. Assignment

| Pin No. | Assignment | Pin No. | Assignment | Pin No. | Assignment |
|---------|-------------|---------|-------------|---------|-------------|
| 1,2 | Temp 3 Fail | 7,8 | Temp 2 Fail | 13,14 | Temp 1 Fail |
| 3,4 | DC 3 Fail | 9,10 | DC 2 Fail | 15,16 | DC 1 Fail |
| 5,6 | AC 3 Fail | 11,12 | AC 2 Fail | 17,18 | AC 1 Fail |

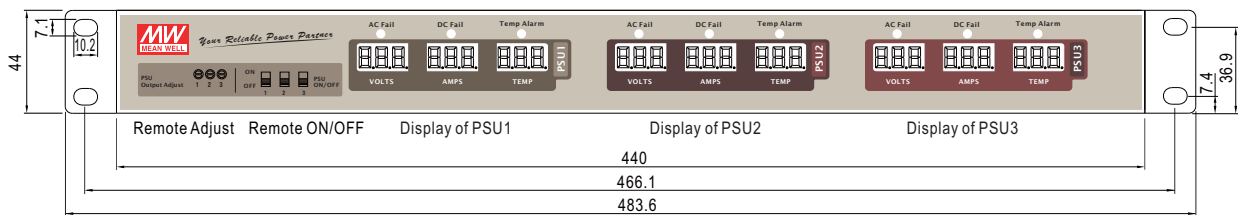
Communication Connector Pin No. Assignment

| Pin No. | Assignment | Pin No. | Assignment | Pin No. | Assignment | Pin No. | Assignment | Pin No. | Assignment |
|---------|------------|---------|------------|---------|------------|---------|------------|---------|------------|
| 1 | ON/OFF-A | 6 | +5V-AUX | 11 | V-TRIM-B | 16 | AC-OK-C | 21 | -S |
| 2 | AC-OK-A | 7 | GND-AUX | 12 | T-ALARM-B | 17 | DC-OK-C | 22 | +V |
| 3 | DC-OK-A | 8 | ON/OFF-B | 13 | NC | 18 | V-TRIM-C | 23 | SCL |
| 4 | V-TRIM-A | 9 | AC-OK-B | 14 | CS | 19 | T-ALARM-C | 24 | SDA |
| 5 | T-ALARM-A | 10 | DC-OK-B | 15 | ON/OFF-C | 20 | +S | 25 | -V |

TOP

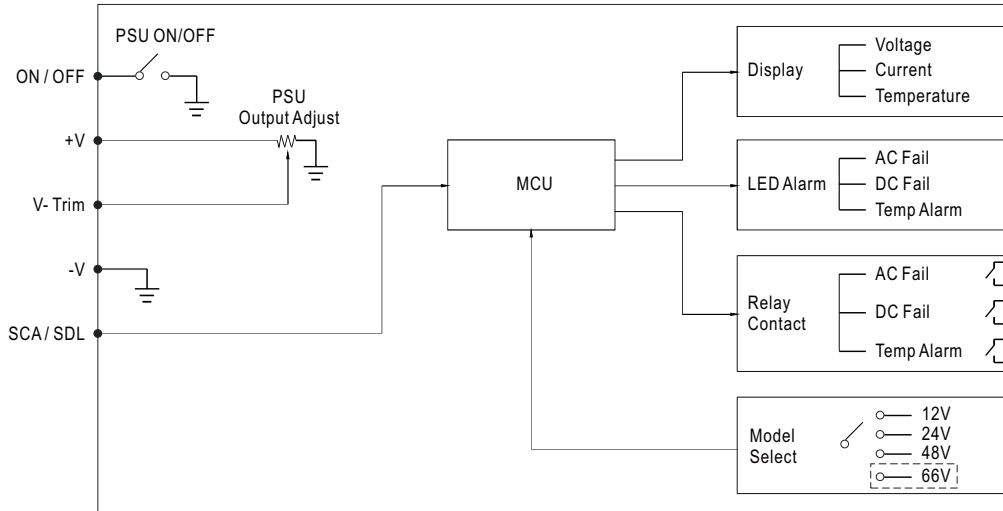


FRONT



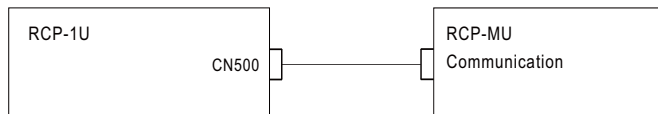
Block Diagram

The diagram below only shows one set of input / output signals. One RCP-MU can control and monitor up to 3 units of RCP-1000 power unit.

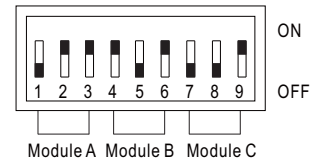


Typical User Manual

1. Monitoring Input



RCP-1U Address dip switch setting

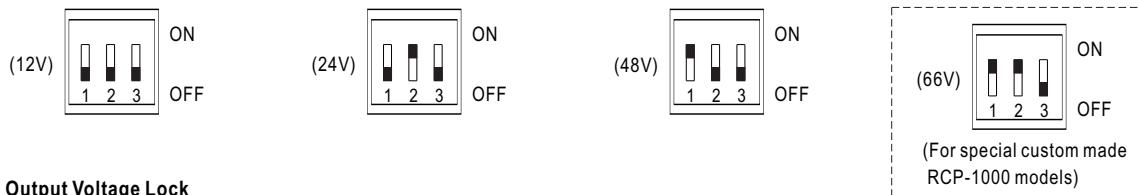


2. Alarm Signal Relay Contact

| Function | Description |
|------------|--|
| AC Fail | When input AC fail, relay open, LED lights |
| DC Fail | When output DC fail, relay open, LED lights |
| Temp Alarm | When temperature exceed the limit of temperature, relay open, LED lights |

3. Model Select Switch

To get better display resolution, the correct output voltage of RCP-1000 that is monitored should be chosen. The factory original setting is for 48V models.



4. Output Voltage Lock

The output voltage adjustment for RCP-1000 units can be enabled or disabled for different application needs.

