

Power Controller Module MegaPower MC2000

MC2000 is the new generation DC power controller module developed by Raycap.

MC2000 offers many features and functions, and a robust, user-friendly, and easy-to-use interface.



Features

- Flexible and scalable
- Smart battery management
- Automatic battery test including advanced scheduled test / constant test / fast test
- Low Voltage Disconnect
- Temperature compensation with programmable compensation factor
- User-selectable alarm parameters
- Audible Alarm
- Programmable alarm routing
- 100 Mbps Ethernet interface + web server support

Power Controller Module

MegaPower MC2000

Key Functions

Measurement

- Analog Value Measurement
- Digital Value Measurement

Communication

- RS485 and Ethernet (WEB and SNMP). RS485 for rectifiers communication
- Remote and local monitoring via the WEB browser
- SNMP protocol supports GET, SET and TRAP on Ethernet.

DI / DO

- 8 user digital input interfaces freely configurable
- 2 dry contact outputs freely configurable

Screen and LEDs

- High resolution LCD screen display and local setting interface
- Green/Yellow/Red LEDS indicate running status for local instant diagnose.

Alarm History, Event History Store

- 200 alarms history and 1000 events history store, FIFO

Remote Metering

- AC voltage
- Bus voltage
- Load current
- Battery current
- Battery temp.
- Ambient temp.
- Rectifier Modules voltage/current

Remote Control

- Equilizing and floating charge of rectifier module
- Voltage regulating of rectifier module
- Current limiting of rectifier module
- On/Off control of rectifier module
- Load disconnect
- Battery disconnect

Battery Management

- Boost Charge
- Temperature Compensation
- Battery Test
- Low Voltage Disconnection
- Battery Capacity Prediction

Energy Saving Mode

- High/standard efficiency modules mixture management
- Modules running cyclic

Alarms / Events

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|--|---|--|
| <ul style="list-style-type: none"> • Configurable digital input alarm • Load fuse alarm • Battery fuse alarm • Manual mode alarm • Battery boost charge • Battery test • Battery discharge • Current imbalance | <ul style="list-style-type: none"> • Abnormal output voltage • Battery test fail • Battery disconnect • AC power failure • Module communication fail • Module fault • Module fan fault • Module protect • Module on/off status | <ul style="list-style-type: none"> • AC over voltage and under voltage • DC over voltage and under voltage • Battery charge over-current • Battery temperature alarm • Ambient temperature alarm • Battery imbalance |
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Product Diagram

Site Monitoring Solution

