



RSC Series MPPT Solar Charge Controller



Features

- Advanced Maximum Power Point Tracking (MPPT) technology, with efficiency no less than 99.5%.
- High quality components, perfecting system performance, with maximum conversion efficiency of 98%.
- Ultra-fast tracking speed and guaranteed tracking efficiency.
- Reliable automatic limit function of maximum PV input power, ensuring no overload.

Technical Specification

| Model | RSC 45S-48V | RSC 45S-48V |
|---------------------------------------|--|-------------------------------------|
| Default battery System voltage | 12 / 24 / 48-VDC (Auto Detection) | |
| Charge Input | | |
| PV Open Circuit Voltage | 100 / 145 V | |
| PV Array MPPT Voltage Range | 16V – 100V / 32V – 130V / 64V – 130V | |
| Max PV Input Power (12V) | 600W | 800W |
| Max PV Input Power (24V) | 1200W | 1600W |
| Max PV Input Power (36V) | 1800W | 2400W |
| Max PV Input Power (48V) | 2400W | 3200W |
| Storage Battery Voltage | | |
| Nominal Voltage | 12VDC / 24VDC / 48VDC | |
| Absorption Voltage | 12.5VDC / 25.0VDC / 50.0VDC | |
| Reflate voltage | 13.7VDC / 25.0VDC / 50.0VDC | |
| Float Voltage | 14.3VDC / 28.6VDC / 57.2VDC | |
| Low Voltage Protection Point | 10.0VDC / 20.0VDC / 40.0VDC | |
| Temperature compensation coefficients | -3M V/ °C / cell (25 °C ref.) | |
| DC Output | | |
| Output Voltage | 11.0- 14.3VDC / 22.0-28.6VDC / 44V-57.2VDC | |
| Max charging current | 45A amps continues @ 40°C Ambien | 60A amps continues @ 40°C Ambien |
| Warning for Low Voltage | 11.5V DC / 23.0 VDC / 46.0 VDC | |
| Cut off for low voltage | 10.5VDC / 21.0 VDC / 42.0 VDC | |
| Low voltage recovery | 11.5VDC / 23.0 VDC / 46.0VDC | |
| Display | | |
| LED indication | Systematic operation LV indication, LV protection, over charge Protraction, load protection , short circuit protection | |
| LCD Display | Charge voltage, charge current, voltage of storage battery, Capacity of storage battery , output current | |
| Alarm Protection | PV array short circuit , PV Revers polarity | |
| | Battery revers polarity , over charging protection | |
| | Output short circuit protection | |
| | Low voltage protection for storage battery | |
| General Specification | | |
| Environment Rating | Indoor | |
| Charge Mode | MPPT, PWM, constant current- constant voltage, function of Automatic protection for storage battery | |
| Radiating mode | Fan cooling | |
| Working Mode | Four stage : absorption CC , absorption CV , float CC , float CV. | |
| Peak Conversion efficiency | 98% | |
| Environment | | |
| Environment temperature | -25°C ~ 55°C | |
| Ambient humidity | 0 – 90% , No condensation | |
| Altitude | <_ 3000m | |
| Dimension | 167.6 x 257.2 x 82.9 mm | |
| Weigh G.W | 3kg | |