



MF Series

Solar power Charging & Discharging Controller

MF4860N15

FEATURE

- ☐ Simultaneous access to PV and batteries to power DC loads
- ☐ Supports a variety of battery types
- ☐ Air-cooled heat dissipation, built-in temperature detection device
- ☐ Supports 1-16 units in parallel use
- ☐ Highly integrated to save installation space and wiring for users
- ☐ Supports various communication modes

ABOUT SRNE

- ☐ SRNE 15 years in PV industry, committed to independent R&D and production.
- ☐ Holds over 200 patents in energy storage, with unique industry-leading technologies.
- ☐ Chooses top-quality international components to deliver high-value products to customers.
- ☐ Upholds values of customer priority, proactivity, responsibility, and innovative breakthroughs.

| MODEL | MF4860N15 |
|-------------------------------------|---|
| PV INPUT | |
| Max.Voltage of Open Circuit | 150Vdc |
| MPPT Voltage Range | (Battery voltage+2V) ~ 120V |
| Max.PV Input Power | 800W/12V、1600W/24V、2400W/36V、3200W/48V |
| BATTERY | |
| Battery Type | Lead-acid / Li-ion / User Defined |
| Rated Battery Voltage | 12/24/36/48Vdc |
| Battery Voltage Range | 9~64Vdc |
| Rated Charging Current | 60A |
| MPPT Charging Mode | Buck |
| LOAD | |
| Load Type | Resistive load 、Capacitive load、 Inductive load |
| Rated Load Voltage | Equal to battery voltage 12V/24V/36V/48V |
| Rated Load Current | 40A |
| Load Working Mode | Light control,Light control + Time control, Manual control (default), Debugging mode, Normal open |
| EFFICIENCY | |
| MPPT Tracking Efficiency | >99% |
| Max. Charging Conversion Efficiency | ≤98% |
| ACCESSORIES | |
| Standard | BTS temperature sensors |
| Optional | RS485 Communication line (RS485 to RS485)、GP-2 IoT module |
| GENERAL | |
| Communication | RS485 |
| Weight | 3.6kg (7.94lb) |
| Dimension | 275*167*90mm (0.90*0.55*0.30ft) |
| Protection Degree | IP32 |
| Operating Temperature Range | -10°C~65°C (14°F~149°F) |
| Certification | RoHS/EN61000 |
| PROTECTION | |

It is equipped with equipment internal over-temperature protection, battery over-temperature protection, input over-power protection, PV input over-voltage, PV input reverse connection protection, and night-time anti-reverse charging protection.

