

MPPT

Solar Charge Controller

Off-Grid Power Generation System Preferred Products



- ☀ MPPT Efficiency $\geq 99.5\%$
- ☀ High Definition LCD Display
- ☀ Suitable For 12V/24V/36V/48V Batteries
- ☀ Suitable For Li-ion Batteries
- ☀ Activation For Li-ion Batteries
- ☀ Support Parallel Connection/Compatible With PC Software Or APP
- ☀ CE / RoHS / FCC Certifications approved



Runner Series

☀ R4860

☀ R4850

☀ R4840

ISO14001 : 2015

ISO9001 : 2015

| Runner Series | | R4840 | R4850 | R4860 |
|-------------------------------------|------------|--|------------|------------|
| Product Category | | | | |
| MPPT efficiency | | ≥99.5% | | |
| Standby power | | 0.5W~1.2W | | |
| Heat-Dissipating method | | Fan-cooling | | |
| Battety system voltage range | 12V system | 9VDC~15VDC | | |
| | 24V system | 18VDC~30VDC | | |
| | 36V system | 32VDC~40VDC | | |
| | 48V system | 42VDC~60VDC | | |
| | Li-ion | 8VDC~60VDC(Default),≤60VDC(Optional activation function) | | |
| Input Characteristics | | | | |
| Max.PV input voltage(Voc) | | 150VDC | | |
| Min.Vmpp Voltage | | Battery voltage + 2V | | |
| Start-up charging voltage | | Battery voltage + 3V | | |
| Low input voltage protection | | Battery voltage + 2V | | |
| Over voltage protection / Recovery | | 150VDC/145VDC | | |
| Reted PV power | 12V system | 520W | 650W | 780W |
| | 24V system | 1040W | 1300W | 1560W |
| | 36V system | 1560W | 1950W | 2340W |
| | 48V system | 2080W | 2600W | 3120W |
| | Li-ion | 504W~2016W | 630W~2520W | 756W~3024W |
| Charge Characteristics | | | | |
| Activation for lithium battery | | Optional | | |
| Battery types (Default Gel battery) | | Sealed(SEL),Gel(GEL),Flooded(FLD),User-defined(USE),Li-ion(Lit) | | |
| Rated charge current | | 40A | 50A | 60A |
| Temperature compensation | | -3mV/°C/2V(default) | | |
| Charge method | | 3 stages: CC (Constant current) - CV (Constant voltage) - CF (Floating charge) | | |
| Output voltage stability accuracy | | ≤±0.2V | | |
| LOAD Characteristics | | | | |
| Load voltage | | Same as battery voltage | | |
| Rated load current | | 30A | | |
| Load control mode | | On, Off , PV voltage control mode, Dual-time control mode, PV + Time control mode | | |
| Low voltage protection | | 10.5V (default), 11V (restored), settable | | |
| Setting method | | PC software / APP / Controller | | |
| Display & Communication | | | | |
| Display | | High-definition LCD segment code backlight display | | |
| Communication | | Dual RJ45 port / RS485 / support PC software monitoring / support WiFi module for APP cloud monitoring / support centralized parallel monitoring | | |
| Other Parameters | | | | |
| Protections | | Input & output over-volt / low-voltage protection, reverse polarity protection, over-heating protection, battery shedding protection etc. | | |
| Operating ambient temperature | | -20°C~+50°C | | |
| Storage temperature | | -40°C~+75°C | | |
| IP(Ingress protection) | | IP21 | | |
| Altitude | | 0~3000m | | |
| Max. Witing size | | 28mm2 | | |
| Recommended breaker | | ≥ 63A | | ≥ 100A |
| N.weight /G.weight (KG) | | 2.15 / 3.05 | | |
| Product size /Packing size (mm) | | 305×185×72 / 420×275×150 | | |