

MPPT solar charge controller

Feature:

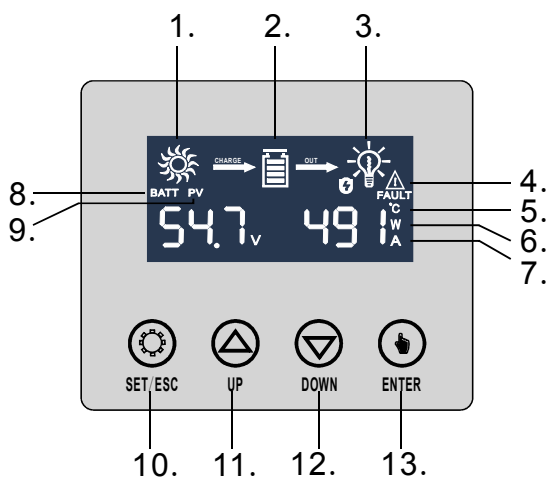


- 20A/30A/40A/50A/60A/100A/120A MPPT solar charge controller
- 12V/24V auto work, 12V/24V/48V auto work, 48V/96V auto work
- The latest MPPT algorithm automatically tracks the maximum power point Point Of The Solar Panel MPPT tracking efficiency is up to 99%, and conversion Efficiency is up to 98%
- With TI DSP chip, digital with up to 12-bit accuracy guarantees MPPT accuracy
- PV input voltage range is wide, users can choose different numbers of solar panels according to actual conditions.
- Under the maximum benefit of energy collection conditions, fast Charging, absorption charging, floating charging, etc. maintain the battery life.
- Supporting Lead-acid battery / Gel battery, Lithium battery, user-defined battery
- Display: can display PV voltage, PV power, battery voltage, charging current, working temperature, fault code
- With over charge, over discharge, overload, open circuit protection, over temperature protection, short circuit automatic protection

Introduction:

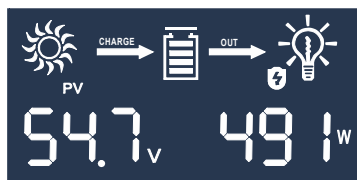
MPPT (Maximum Power Point Tracking) Solar Charge Controller offer an efficient, safe, multi-stage recharging process that prolongs battery life and assures peak performance from a solar array. Each Charge Controller allows customized battery recharging.

LCD Display Information:

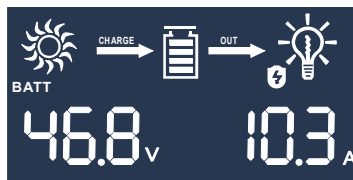


| NO | LCD Display | Contents Descriptions |
|----|-------------|-----------------------------|
| 1 | PV | PV Input symbol |
| 2 | Battery | Battery capacity |
| 3 | OUT | DC output symbol |
| 4 | Fault | Fault indicator |
| 5 | Temperature | Display working temperature |
| 6 | Power | PV Input power |
| 7 | Current | Charge current |
| 8 | Voltage | Battery voltage |
| 9 | Voltage | PV voltage |
| 10 | ⚙️ SET/ESC | Set and exit button |
| 11 | ⬆️ UP | UP button |
| 12 | ⬇️ DOWN | DOWN button |
| 13 | 👉 ENTER | Confirm button |

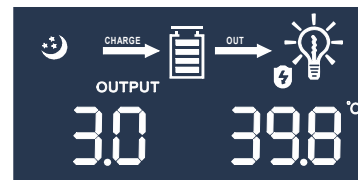
PV Voltage/Power



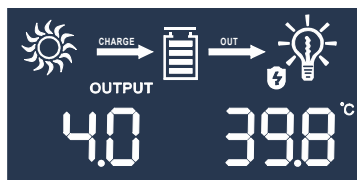
Battery voltage/Current



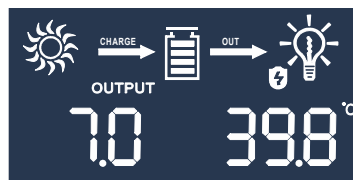
Standby mode, PV voltage is lower than battery voltage



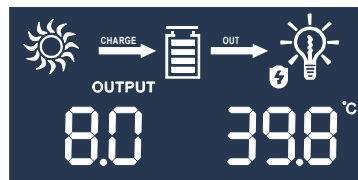
Maximum power point tracking mode



Strong charge mode



Floating mode



Specification

| Model | | 20A | 30A | 40A | 50A | 60A | 100A | 120A | |
|-------------------------------------|------------------------------|--|--|--|-------|-------|-------------|--------|-----|
| Default Battery System Voltage(VDC) | | 12VDC/24VDC(auto work) | | 12VDC/24VDC/36VDC/48VDC,48VDC/96VDC(auto work) | | | | | |
| Controller Input | PV Open Circuit Voltage | 105VDC@12V/ 105VDC @24V/ 160VDC @36V/ 160VDC @48V/ 280VDC @96V | | | | | | | |
| | PV Array MPPT Voltage Range | 16VDC~100VDC / 32VDC~100VDC / 48VDC~150VDC / 64VDC~150VDC /128~260VDC | | | | | | | |
| | Max PV Input Power(12V) | 240W | 360W | 480W | 600W | 720W | 1200W | 1440W | |
| | Max PV Input Power(24V) | 480W | 720W | 960W | 1200W | 1440W | 2400W | 2880W | |
| | Max PV Input Power(36V) | 720W | 1080W | 1440W | 1800W | 2160W | 3600W | 4320W | |
| | Max PV Input Power(48V) | 960W | 1440W | 1920W | 2400W | 2880W | 4800W | 5760W | |
| | Max PV Input Power(96V) | 1920W | 2880W | 3840W | 4800W | 5760W | 9600W | 11500W | |
| Battery | Peak Conversion efficiency | 98% (MPPT Efficiency 99%) | | | | | | | |
| | Max Charging Current | 20A | 30A | 40A | 50A | 60A | 100A | 120A | |
| | Absorption Voltage | 12.5VDC/25.0VDC/37.5VDC/50.0VDC/100VDC | | | | | | | |
| | Refloat Voltage | 13.7VDC/27.4 VDC/41.4VDC/54.8VDC/109.6VDC | | | | | | | |
| | Float Voltage | 14.3VDC/28.6 VDC/42.9VDC/57.4VDC/114.4VDC | | | | | | | |
| | Low Voltage Protection Point | 10VDC/20.0 VDC/ 30.0VDC/40.0VDC/80.0VDC | | | | | | | |
| DC output | DC Output Voltage Range | 10.0VDC~14.5VDC / 20VDC~29.0VDC / 30.0VDC~43.5VDC / 40.0VDC~58.0VDC | | | | | | | |
| | Max Output Current | 20A | 20A | 20A | 20A | 20A | 20A | 20A | |
| | Low Battery Cutoff | 10.25VDC/20.5 VDC/30.75VDC/41.0VDC/81.0VDC | | | | | | | |
| | Under Voltage Shutdown | 10.0VDC/20.0 VDC/30.0VDC/40.0VDC/80.0VDC | | | | | | | |
| | Under Voltage Recovery | 11.0VDC/22.0 VDC/33.0VDC/44.0VDC/88.0VDC | | | | | | | |
| Display | content | PV Voltage, PV Power, Battery Voltage, Charging Current, Working Temperature, Fault Code | | | | | | | |
| | Warning Code | 73 | Charge Current Over Current Protection | | | | | | |
| | | 18 | PV Input Has No Voltage Or Low Voltage | | | | | | |
| | | 60 | Over Temperature Protection | | | | | | |
| | | 63 | High Battery Voltage | | | | | | |
| | | 65 | Low Battery Voltage | | | | | | |
| | | 71 | High PV Input Voltage | | | | | | |
| Other | Radiating mode | Fan cooling | | | | | | | |
| | Operation Temperature Range | -20~55°C | | | | | | | |
| | Ambient humidity | 0~90% relative humidity(non-condensing) | | | | | | | |
| | Environmental Rating | Indoor | | | | | | | |
| Appearance | Product Size(L*W*H)(MM) | 200*160*70 | | 235*190*100 | | | 370*278*130 | | |
| | Packing Size(L*W*H)(MM) | 590*500*400 | | 550*340*490 | | | 470*370*210 | | |
| | PCS/CTN | 12 | 12 | 6 | 6 | 6 | 6 | 1 | 1 |
| | Net Weight (kg) | 1.0 | 1.3 | 1.8 | 2.0 | 2.2 | 2.5 | 6.0 | 6.5 |
| | Gross Weight (kg) | 14 | 15 | 12 | 13 | 20 | 21 | 10 | 11 |

* Product specifications are subject to c hange without further notice.

