

Feature

1. MPPT charging mode, peak efficiency up to 99%;
2. DC12V/24V/48V battery system automatic recognition;
3. Maximum PV input voltage up to DC100V;
4. Three stages charge: fast charge(MPPT), constant voltage charge, floating charge;
5. Three option of discharge: on mode and off mode and PV voltage(solar) control mode.
6. Users can choose 4 kinds of commonly standard batteries(Sealed lead acid, Vented, Gel, NiCd);
7. Digital tube can display battery voltage and charging current;
8. RS232 communication, we can offer communication protocol also;
9. This controller can be paralleled infinitely.
10. CE, RoHS and FCC Certifications are approved.
11. 2 years warranty; 3~10 years extended technical service.

Protection

Input Low Voltage Protection;

Input Overvoltage Protection;

Charge over voltage power Protection;

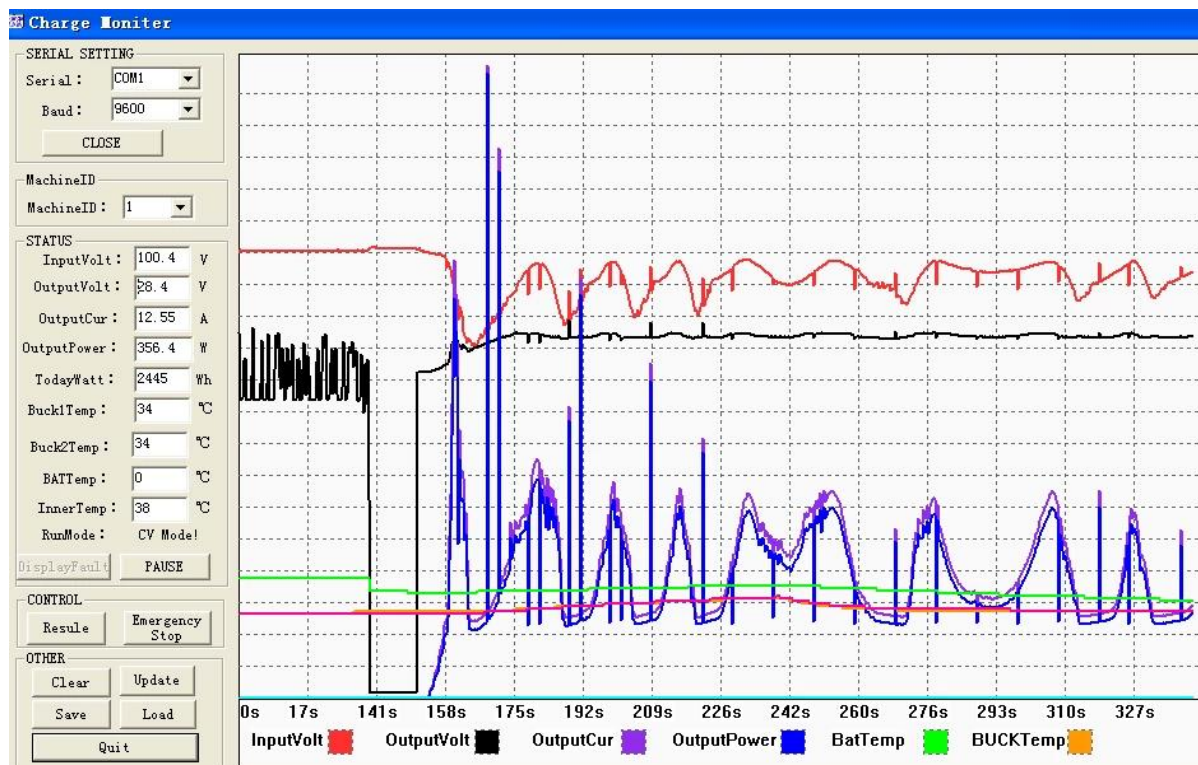
Low Voltage output Protection;

Rated output Current protection;

Temperature Protection.

Connection diagram

The interface of test software working state



Parameter

| MPPT solar controller modes | | 30A |
|---------------------------------------|--|-----------------------|
| I-P-e-SMART-12V/24V/48V-series | | |
| Charge mode | MPPT(maximum power point tracking) | |
| Charge method | Three stages: constant current(MPPT),constant voltage,floatng charge | |
| System type | DC12V/24V/48V | Automatic recognition |
| System voltage | 12V system | DC9V~DC15V |
| | 24V system | DC18V~DC30V |
| | 48V system | DC36V~DC60V |
| Soft start time | 12V/24V/48V system | ≤3S |
| Dynamic response recovery and range | 12V/24V/48V system | 500us |
| MPPT efficiency | 12V/24V/48V system | ≥96.5%,≤99% |
| INPUT CHARACTERISTICS | | |
| MPPT working voltage and Range | 12V system | DC14V~DC100V |
| | 24V system | DC30~DC100V |
| | 48V system | DC60~DC100V |
| Low voltage input Protection point | 12V system | DC14V |
| | 24V system | DC30V |
| | 48V system | DC60V |
| Low voltage input Recovery point | 12V system | DC18V |
| | 24V system | DC34V |
| | 48V system | DC65V |
| Input over voltage protection point | 12V/24V/48V system | DC110V |
| Input over voltage recovery point | 12V/24V/48V system | DC100V |

| | | |
|---|--|---|
| Maximum PV power | 12V system (W) 24V system (W) 48V system (W) | 426W 852W 1704W |
| CHARGE CHARACTERISTICS | | |
| Selectable Battery Types (Default type is GEL battery) | 12V/24V/48V system | Sealed lead acid, vented, Gel, NiCd battery (Other types of the batteries also can be defined) |
| Constant Voltage | 12V/24V/48V system | Please check the charge voltage according to the battery type form. |
| Floating Charge Voltage | 12V/24V/48V system | Please check the charge voltage according to the battery type form. |
| Rated Input Current | 12V/24V/48V system | 30A |
| Current-limiting Protection | 12V/24V/48V system | 35A |
| Temperature Factor | 12V/24V/48V system | ±0.02%/°C |
| Temperature Compensation | 12V/24V/48V system | 14.2V-(The highest temperature-25°C)*0.3 |
| Output Ripples(peak) | 12V/24V/48V system | 200mV |
| Output Voltage Stability Precision | 12V/24V/48V system | ≤±1.5% |
| Output Discharge Characteristics | | |
| Output voltage | Base on battery voltage | |
| Low voltage output Protection point | Default 10.5V; recovery 11V; custom available ; | |
| Rated output Current | 30A | |
| The output control | Always on, always off, PV voltage control switch | |
| Output control set mode | Controller button or upper computer | |
| Display | | |
| LED digital tube display | Battery voltage, charge current | |
| LED light display | Charging indicator light, LOAD indicator light | |
| PC communication port | RS232 | |
| Other Parameters | | |
| Noise | ≤40dB | |
| Thermal heat-dissipating method | Itself cooling fan cooling | |
| Components Certification | Imported material, with EU standards. CE\FCC\ROHS | |
| Environment | | |
| Humidity | 0~90%RH (no condense) | |
| Altitude | 0~3000m | |
| Operating Temperature | -20°C ~ +50°C | |
| Storage Temperature | -40°C ~ +75°C | |
| Atmospheric Pressure | 70~106kPa | |

Packing and shipping





中外运敦豪

Company





