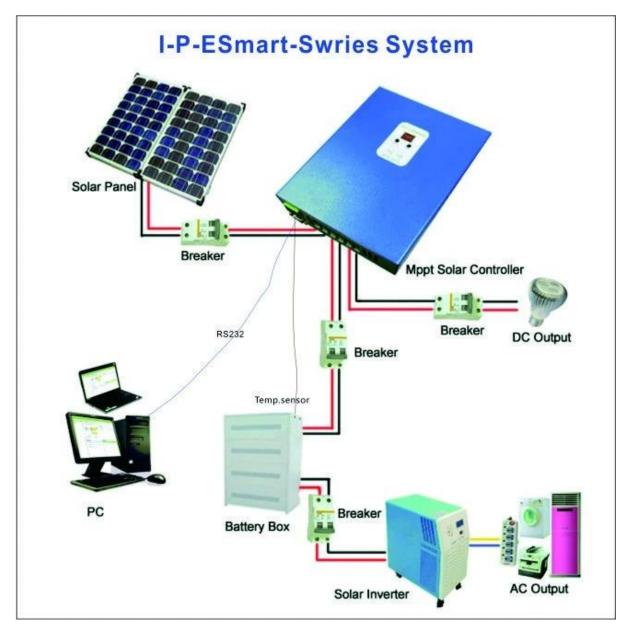
Feature

- 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

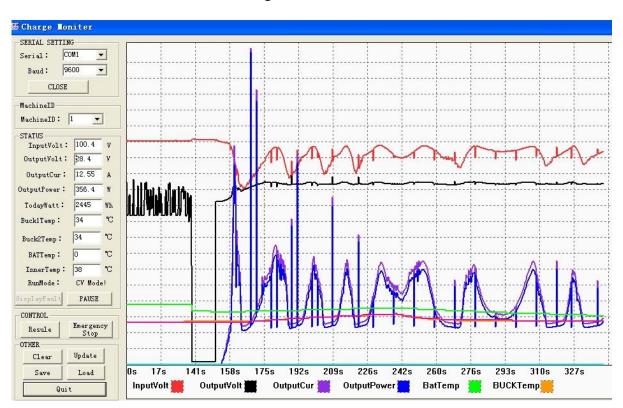
Input Low Voltage Protection; Input Overvoltage Protection; Charge over voltage power Protection; Low Voltage output Protection; Rated output Current protection; Temperature Protection.

Connection diagram



The interface of upper computer software working state

| SolarEagle | | | | |
|--|---|----------|--|--|
| System(S) Control(C) Statistics(T) Language(L) Help(H) | | | | |
| 📓 💽 🔀 쵫 | Guest Monitored device: Device mode: | | | |
| Devices | Overview Parameters setting Real-time control | | | |
| | Input information | | | |
| | DCDC++ Battery type: Main fireware version: | | | |
| | Charge information Real-time events | | | |
| | ID Level Time | Event | | |
| | Charge voltage: 0.0 V Charge power: 0.0 W | <u> </u> | | |
| | Charge current: 0.0 A Total power: 0.0 Wh | | | |
| | Battery temperature: 0.0 °C | = | | |
| | | | | |



The interface of test software working state

Parameter

| MPPT solar controller mode I-P-e-SMART-12V/24V/48V- | | 20A | |
|--|---|-----------------------|--|
| Charge mode | MPPT(maximum power point tracking) | | |
| Charge method | Three stages: constant current(MPPT),constant voltage,floating charge | | |
| System type | DC12V/24V/48V | Automatic recognition | |
| | 12V system | DC9V~DC15V | |
| System voltage | 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 | | | |
| MPDT working | 12V system | DC14V~DC100V | |
| MPPT working voltage and Range | 24V system | DC30~DC100V | |
| | 48V system | DC60~DC100V | |
| | 12V system | DC14V | |
| Low voltage input Protection point | 24V system | DC30V | |
| | 48V system | DC60V | |
| | 12V system | DC18V | |
| Low voltage input Recovery point | 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 | |

| | 12V system (W) | 426W |
|--|-----------------------|---|
| Maximum PV power | 24V system (W) | 852W |
| · | 48V system (W) | 1704W |
| CHARGE CHRECTRESTICS | | |
| 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 | 20A |
| Current-limiting Protection | 12V/24V/48V system | 25A |
| 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 Characte | eristics | |
| 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[] Other Parameters | | RS232 |
| Noise | | ≤40dB |
| Thermal heat-dissipating method | | Itself cooling fan cooling |
| Components | | Imported material, with EU standards. |
| Certification | | CE\FCC\ROHS |
| Environment | | |
| Humidity | | 0~90%RH (no condense) |
| Altitude | | 0~3000m |
| Operating Temperature | | -20°C ~ +50°C |
| Storage Temperature Atmospheric Pressure | | -40°C ~ +75°C 70~106kPa |
| | | |

Packing and shipping





Company









