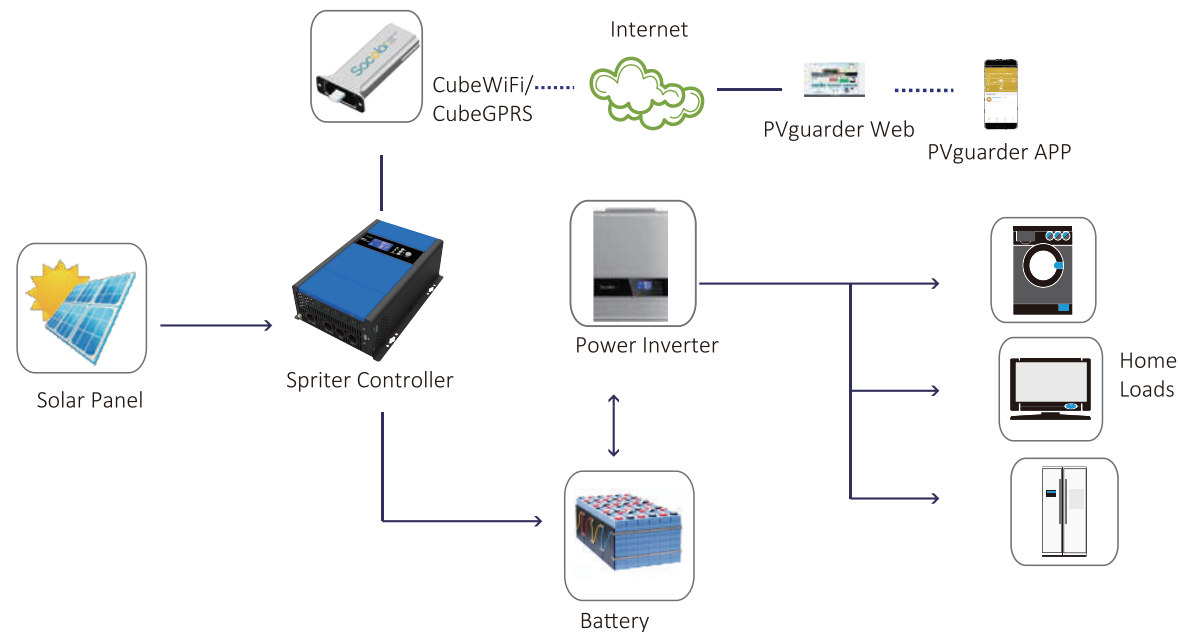


## Spriter Series

### MPPT Solar Charger Controller

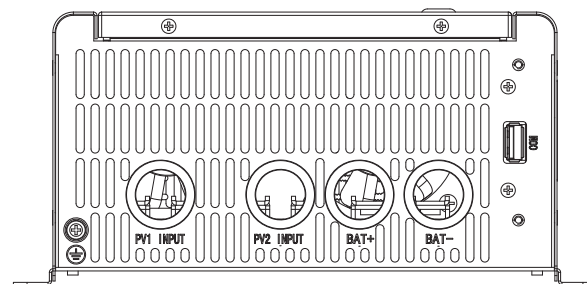
#### MAIN FEATURES:

- ➔ 12V/24V/48V auto work, parallel design
- ➔ Multi-stage charging optimizes battery performance
- ➔ MPPT tracking efficiency>99.5%,Peak conversion efficiency 97.5%
- ➔ Reverse polarity protection of solar panel and battery
- ➔ Overcharge and overload protection
- ➔ Multifunctional LCD displays detailed information
- ➔ WiFi/GPRS remote control module (optional)



#### INTRODUCTION:

Spriter series (12V~48V)MPPT solar charge controller is an advanced maximum power point tracking (MPPT)battery charger. It is used for off grid solar system.



BOTTOM VIEW

#### SPECIFICATION

| Model                               | Spriter 48V60   | Spriter 48V80       | Spriter 48V100      | Spriter 48V120      |
|-------------------------------------|---|---------------------|---------------------|---------------------|
| Solar System Voltage                | 12V/24V/48V   | 12V/24V/48V         | 12V/24V/48V         | 12V/24V/48V         |
| Monitoring Option                   | WiFi or GPRS  | WiFi or GPRS        | WiFi or GPRS        | WiFi or GPRS        |
| <b>Electrical</b>                   |   |                     |                     |                     |
| PV OPerating voltage                | 15~145Vdc@12V 30~145Vdc@24V 60~145Vdc@48V   |                     |                     |                     |
| Max.PV Open circuit Voltage         | 150Vdc  | 150Vdc              | 150Vdc              | 150Vdc              |
| Max.PV input power                  | 12V 1500W/24V3000W/48V6000W   |                     |                     |                     |
| Max.charging current                | 60A   | 80A                 | 100A                | 120A                |
| Self Consumption                    | 2W  | 2W                  | 2W                  | 2W                  |
| MPPT Efficiency                     | 99.5%   | 99.5%               | 99.5%               | 99.5%               |
| Conversion Efficiency               | 97.5%   | 97.5%               | 97.5%               | 97.5%               |
| Protection                          | Overload,short circuit,high voltage,high temperature protection   |                     |                     |                     |
| Number of independent MPPT trackers | 1   | 1                   | 2                   | 2                   |
| <b>Battery Charging</b>             |   |                     |                     |                     |
| Battery Type                        | AGM, Gel, Flooded,Lithium,User define   |                     |                     |                     |
| Charging Algorithm                  | 3-stage: Bulk, Absorption, Float, Equalize  |                     |                     |                     |
| Bulk charge voltage                 | Sealed:14.4V AGM Gel:14.1V Flooded:14.6V User define:12-14.6V(For 24 system,total voltagex2,For 48 system, total voltagex4) |                     |                     |                     |
| Float charge voltage                | Sealed/Gel/AGM:13.7V Flooded:13.6V Userdefine:12-14.6V(For 24 system,total voltagex2,For 48 system, total voltagex4)        |                     |                     |                     |
| Temperature compensation            | -5mV/°C with BTS(Optional)  |                     |                     |                     |
| <b>Communication</b>                |   |                     |                     |                     |
| Communication Port                  | USB   | USB                 | USB                 | USB                 |
| <b>Mechanical</b>                   |   |                     |                     |                     |
| Net weight                          | 3KG   | 3KG                 | 4KG                 | 4KG                 |
| Dimensions                          | 280X180X100   | 280X180X100         | 300X185X105         | 300X185X105         |
| Cooling                             | Fan cooling   | Fan cooling         | Fan cooling         | Fan cooling         |
| Enclosure                           | IP20  | IP20                | IP20                | IP20                |
| <b>Environment</b>                  |   |                     |                     |                     |
| Ambient Temperature                 | ~25~60°C(Derating from 45°C )   |                     |                     |                     |
| Storage Temperature                 | -40°C~+80°C   | -40°C~+80°C         | -40°C~+80°C         | -40°C~+80°C         |
| Humidity                            | 100% non-condensing   | 100% non-condensing | 100% non-condensing | 100% non-condensing |