

Solar Charge Controller  
MPPT Series (20A-80A)



**Features**

- Rated charge: 20A/40A/60A/80A
- Solar charge controller
- Rated voltage: 12V/24V/48 Auto , 18V/36V Manual
- Intelligent Touch Screen LCD display
- Low-voltage disconnection (LVD) function
- Overall self-test
- Electronic protection functions
- RS 485 Communication Interface
- Safe solar battery charger
- Fit for Gel Sealed Flooded and Lithium Battery
- PV:170V

Introduction

The MPPT Solar Charge Controller sreies, common negative grounding ,working with Innovative maximum power point tracking technology,significantly improves energy utilization of solar systems by lifting the solar tracking efficiency to 99%.

Intelligent Touch Screen LCD display: Easily access to running parameters and status of the controller. Low-voltage disconnection (LVD) function and overall self-test and electronic protection functions to maximize battery life and improve system performance effectively.

RS 485 Communication Interface could communicate among multiple computers within up to 1km. Real-time Monitor and set the parameters via mobile phone APP or PC software,keep your system running at full potential without any drop.

Safe solar battery charger protected against overcharge high/low input volt, input/output polarity reverse, short circuit and overheat.

Function Description

- 1.Soar cell panel status

2.Input voltage solar panel

3.Charging current

4.Cumulative generating capacity

5.Battery voltage

6.Current time

7.Charging process status

8.Battery status

9.Information display

10.Battery capacity percentage

11.Charging power

12.Load control key
- 13.Load status

14.working temperature of controller build-inmodule

15.Mppt controller status

16.Manufacturer logo

17.Ambient temperature

18.PV terminals

19.Battery terminals

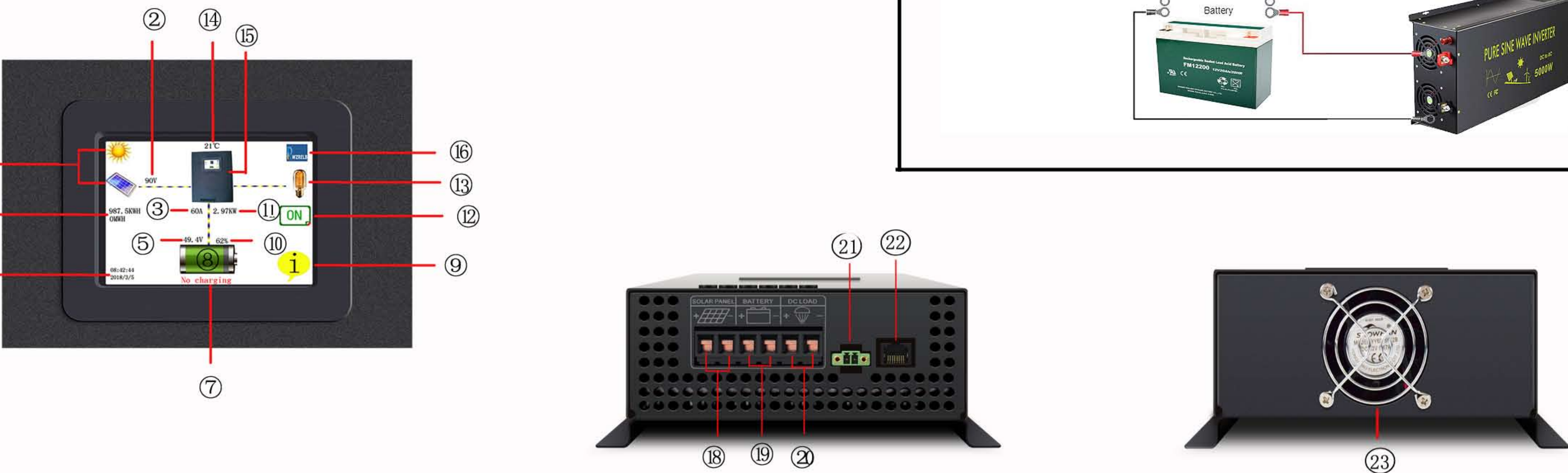
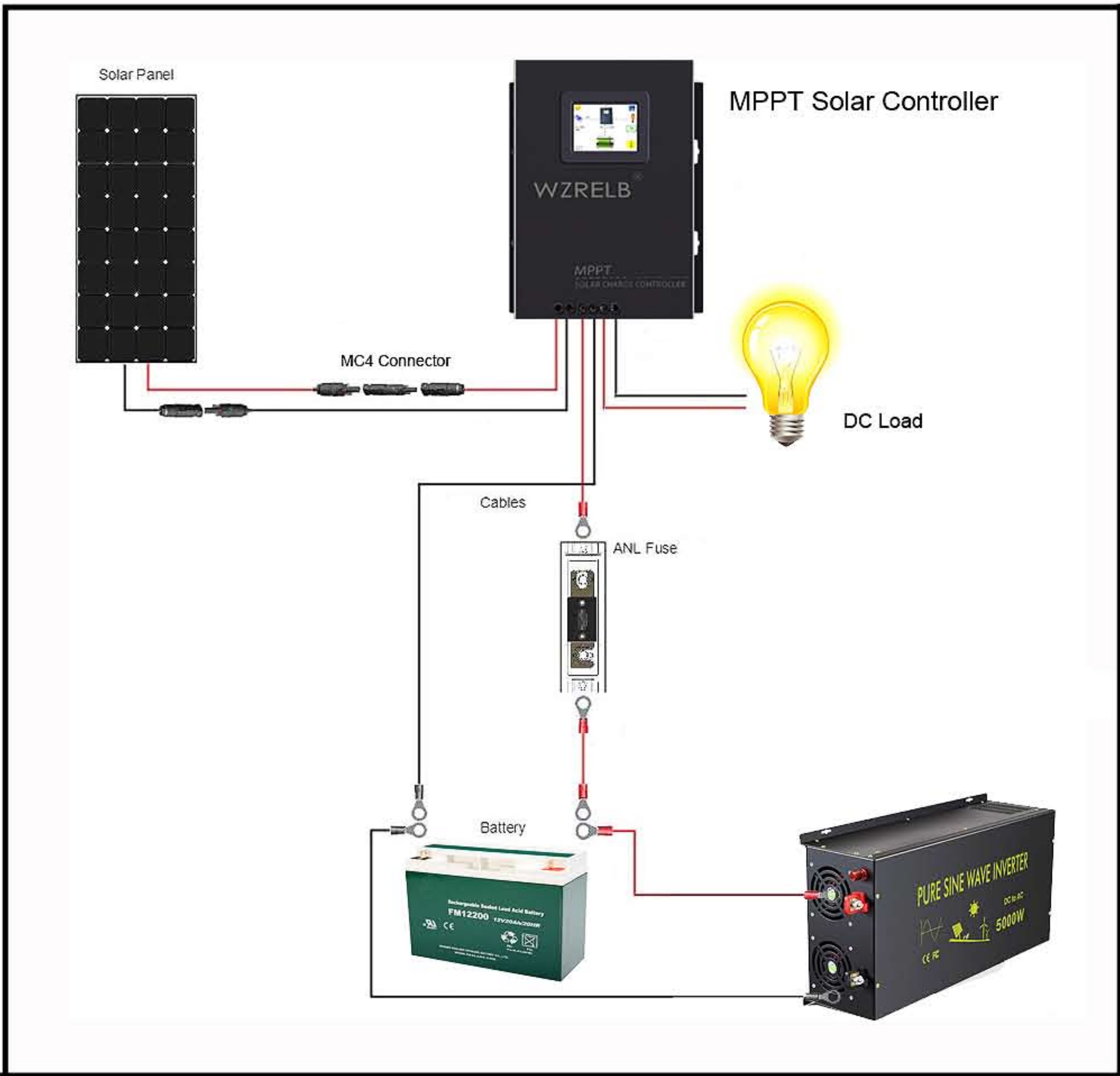
20.DC terminals

21.Remove temperature sensor

22.RS485 communication port

23.60\*60mm power cooling fan

Solar System Connection



Specification Data



| model                              | MPPT 20A                                                                                            | MPPT 40A | MPPT 60A         | MPPT 80A |
|------------------------------------|-----------------------------------------------------------------------------------------------------|----------|------------------|----------|
| Cut-off current                    | 22A                                                                                                 | 42A      | 62A              | 82A      |
| Voltage Range                      | 12V/24V/48 Auto , 18V/36V Manual                                                                    |          |                  |          |
| Efficiency                         | > 99%                                                                                               |          |                  |          |
| Maximum solar panel voltage        | ≤170V                                                                                               |          |                  |          |
| Minimum solar panel voltage        | 3V higher than the voltage of full-charged battery (e.g. voltage of fully-charged 12V battery       |          |                  |          |
| Maximum solar panel power          | Battery voltage * rated current = solar panel power (e.g. 12V*20A=240W)                             |          |                  |          |
| Stabilized voltage precision       | ≤±1.5%                                                                                              |          |                  |          |
| Communication of the host computer | Yes. For details, please refer to the communication parameters.                                     |          |                  |          |
| Input protection                   | Low voltage protection/high voltage protection/reverse polarity protection/short-circuit protection |          |                  |          |
| Temperature protection             | Stop work when the radiator temperature rises to 85°C.                                              |          |                  |          |
| Start conditions of the fan        | When the radiator temperature hits 50°C/the charging current reaches 50% rated current              |          |                  |          |
| Over Load                          | Shut Off Output                                                                                     |          |                  |          |
| Fuses                              | Short Circuit                                                                                       |          |                  |          |
| Environment humidity               | 0% ~ 90% RH (without condensation)                                                                  |          |                  |          |
| Altitude                           | 0-3,000m                                                                                            |          |                  |          |
| Working Temperature                | -20°C ~ +50°C                                                                                       |          |                  |          |
| Storage Temperature                | -40°C TO 70°C                                                                                       |          |                  |          |
| Atmospheric pressure               | 70-106KPa                                                                                           |          |                  |          |
| Start                              | Soft Start                                                                                          |          |                  |          |
| Cooling Ways                       | Cooling Fan                                                                                         |          |                  |          |
| Total Harmonic Distortion          | THD < 5%                                                                                            |          |                  |          |
| Machine size                       | 7.8*6.4*3IN                                                                                         |          | 9.36*7.8*2.73 IN |          |
| Net Weight                         | 5.41LB                                                                                              |          | 6. 8LB           |          |
| Packing Type                       | Carton Packing                                                                                      |          |                  |          |

Output Socket

