

## Features

- Controller accurately tracks the maximum power point
- Improved energy utilization
- Short tracking to the optimal working point of the L-V curve
- MPPT tracking efficiency up to 99.9%
- Energy conversion efficiency up to 98%
- Supports multiple types of battery charging programs
- Can support capacitive load instant high current start
- With fault LED indication, easy to determine the system fault
- Built-in overtemperature protection mechanism
- Automatic adjustment of charge and discharge parameters
- With the battery overtemperature protection function



Improved Energy Utilization



With Fault LED Indication



Suitable For Multiple Types Of Batteries



Supports High Current Startup



High Temperature Protection



High Efficiency

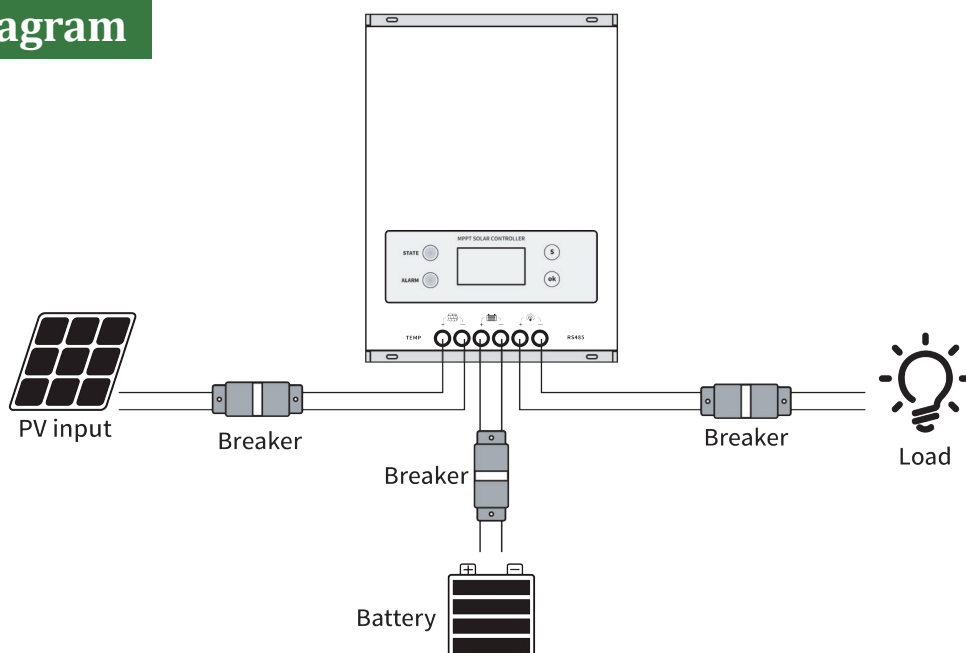


Automatic Adjustment



Battery Overtemperature Protection

## System Diagram





## Specifications

Model	MPPT/WHC 4880F
MPPT Efficiency	≥99.5%
No-load Static Loss	1W~1.2W
System Voltage	12V/24V/36V/48V Auto
Frequency (Hz)	Fan Cooling
PV Maximum Open Circuit Voltage (VOC)*	250Vdc
Turn On The Charging Voltage Point	3V higher than battery voltage
Input Low Voltage Protection Point	2V higher than the current battery voltage
Input Overvoltage Protection Point	250Vdc
Rated Input Power 12V System**	1152W
Rated Input Power 24V System**	2304W
Rated Input Power 36V System**	3456W
Rated Input Power 48V System**	4608W
Charging Method	Lead-acid battery: fast charge, equal charge, floating charge; lithium battery: fast charge, equal charge
Lithium Battery Activation Function	Optional
Charge Rated Current	80A
Applicable Battery Type	Lead-acid battery / Li-ion battery
Load Voltage	same battery voltage
Rated Load Current	50A
Load Control Method	Normally open and normally closed mode/dual period control mode/ light control mode/light control-fixed time control mode
Display Method	High-definition LCD segment code backlight display
Communication Method	8-pin RJ45 interface/RS485/support host computer monitoring/ support external Bluetooth, WIFI module expansion to realize app cloud monitoring/support external monitoring header
Protective Function	Input and output over-voltage protection, anti-reverse connection protection, battery drop protection, etc.
Working Temperature	-20°C ~+55°C
Storage Temperature	-40°C ~+70°C
IP Protection Class	IP21
Maximum Wire Size	25mm <sup>2</sup>
Net Weight (kg)	3.4
Gross Weight (kg)	4
Product Size (mm)	305*200*85
Packaging Size (mm)	366*240*125