

# SMF Series

## High-Precision Intelligent MPPT Solar Charge Controller

CE FC RoHS



### Product Introduction

- Based on the MPPT control algorithm, the SMF series supports charging both lead-acid and lithium batteries. Equipped with an RS485 waterproof communication interface, it allows users to check and modify the controller's working status. The SMF series can be connected to an external dedicated IoT module and coordinated with cloud server monitoring software to achieve remote, centralized monitoring of multiple machines. It is widely used in fields such as IoT, field monitoring, and solar lighting systems.

### Product Features

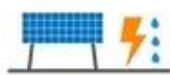
- Adopts MPPT (Maximum Power Point Tracking) technology, with an MPPT efficiency of 99.9% and a conversion efficiency of no less than 98%;
- Supports charging of lead-acid batteries, lithium batteries, and other custom batteries.
- Supports 0V activation function for lithium batteries;
- Low power consumption (static power dissipation below 20mA);
- High-precision digital boost constant current control algorithm, providing high efficiency and precision in boost constant current;
- Multiple intelligent load modes available, supporting dual 12V and 24V load outputs;
- Multiple protection features, including batteries/ PV reverse polarity protection, and power limiting protection;
- Extendable IoT remote communication and monitoring capabilities;
- All-aluminum metal shell with IP65 ingress protection, capable of operating in harsh environments.



Solar RV



Solar Yacht



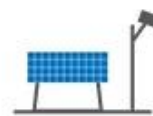
Solar Meteorological  
Monitoring



Forest Fire  
Prevention



Solar-Powered  
Streetlight



Solar-Powered  
Monitoring