

# Solar Charge Controller for Battery Protection

This charge controller is essential for solar photovoltaic (PV) systems, regulating the voltage and current from solar panels to batteries. It prevents overcharging and extends battery life.



## Product Overview

### Intelligent Multi-Function Solar Charging Controller

This series of intelligent solar controllers features an innovative design and user-friendly interface for easy installation and operation. It utilizes optimized charge and discharge management to significantly extend battery life across various applications. With automatic 48V voltage identification and accurate load control via a unique clock circuit, it provides a reliable solution for professional solar power systems.

## Core Performance

### Key Performance Metrics

**48 V**

System Voltage

**80100 CPF**

Model Series

## System Management

System Voltage Level	Automatic 48V Identification
----------------------	------------------------------

## Connectivity & Communication

### Supported Host Devices

- Desktop Computers
- Tablet PCs
- Smartphones

Remote Communication Options	Cable, WIFI, Bluetooth
------------------------------	------------------------

## Protection & Reliability

### Integrated Protection Mechanisms

Over-voltage Protection • Short-circuit Protection • Reverse Polarity Protection • Battery Protection

## Technical Features

Monitoring Interface	LCD screen displaying all system parameters
Temperature Compensation	Yes
Load Control Accuracy	High precision via unique clock circuit

## Physical Design

Heat Dissipation	Integrated heat dissipation vents
Terminals	Multiple terminals for PV, Battery, and Load with clear polarity markings