

# 12V/24V 20A PWM Solar Charge Controller with Dual USB

This 12V/24V 20A PWM solar charge controller efficiently charges batteries using solar panels. It features dual 5V 2A USB outputs and supports lead-acid, lithium-ion, and LiFePO4 batteries with comprehensive protection features.



## Product Overview

### Intelligent PWM Solar Charge Management

This 20A PWM solar charge controller is designed for efficient 12V/24V battery system management. It features a large LCD display for real-time monitoring and parameter customization, ensuring optimal charging through three-phase PWM technology. Built with safety in mind, it includes comprehensive protections against overcurrent, short circuits, and reverse polarity, alongside a memory function that retains user settings after power interruptions.

## Technical Specifications

### Rated Current

**20 A**

Rated Current

### System Voltage

12V, 24V

### USB Output

5V 2A (Dual USB)

## Battery Compatibility

### Supported Battery Types

- B01: Lead-acid battery
- B02: Lithium-ion battery
- B03: Lithium iron phosphate (LiFePO4) battery

## Features & Protection

### Safety Protections

Overcurrent Protection • Short Circuit Protection • Open Circuit Protection • Battery Reverse Protection • Anti-Reverse Circuit

### Charging Stages

- Constant Current Mode
- Constant Voltage Mode
- Floating Charge Mode

### Advanced Functions

Power-cut memory function (retains user settings)