

MPPT Solar Battery Charge Controller

This MPPT solar charge controller optimizes the charging of batteries within a solar power system. The controller supports multiple battery voltages, including 12V, 24V, and 48V, and features a maximum charging current of 60A on the 12V model.



Overview

High-Efficiency MPPT Solar Charge Controller

This MPPT Solar Charge Controller is engineered to optimize battery charging efficiency up to 98% in various solar power systems. It supports automatic battery voltage recognition and is compatible with a wide range of battery chemistries, including gel, sealed, fluid, and lithium batteries. Designed for reliability, it features robust protection mechanisms such as TVS lightning protection, reverse current prevention, and automatic overload and overheat protection.

Performance Metrics

Maximum Efficiency	98 %
Charging Stages	Bulk, Absorption, Float

Electrical Specifications

System Performance Ratings

Battery System	Max Solar Power	Max Load Power
12V	800W	120W
24V	1600W	240W
48V	3200W	480W

Max Charging Current	60 A
PV Input Voltage Range	18V - 120V

Features & Protection

Compatible Battery Types

- Gel Batteries
- Sealed Batteries
- Fluid Batteries
- Lithium Batteries

Protection Mechanisms

TVS Lighting Protection • Reverse Current Protection • Overload Protection • Overheat Protection

Connectivity & Interface

Communication	RS232
User Interface	LCD Display, LED Status Indicators