

# SOLAR CHARGE CONTROLLER

# MPPT M1210P



## Battery Protection

Comprehensive protection design prevents overcharging and deep discharging of the battery, extending its service life.



## 100%MPPT

Advanced MPPT (Maximum Power Point Tracking) technology intelligently adapts to various environments, maximizing the utilization of solar panels.



## LCD Screen

LCD display allows for checking charging parameters and status anytime, anywhere.



## Reverse Polarity Protection

The reverse polarity protection for both solar panels and batteries ensures safety and facilitates easy operation.



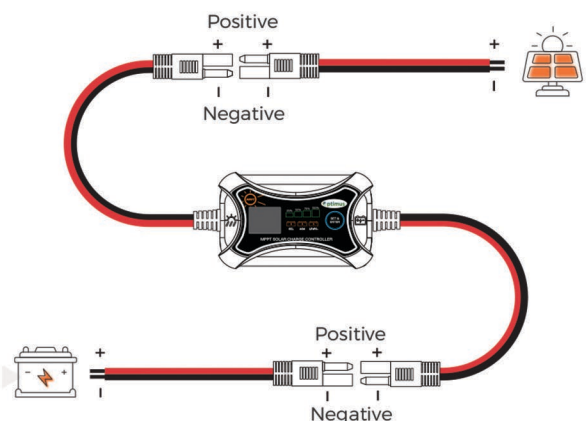
## Easy Plug And Play Connection

Compact size, easy installation with quick-connect SEA plugs for immediate use, and standard extension cables for flexible application.

## KEY FEATURES

- **100% MPPT Efficiency:** Advanced tracking technology enhances solar panel output by up to 30% compared to traditional controllers.
- **Versatile Voltage Support:** Designed for 12V systems with efficient charging modes for AGM, GEL, and LiFePO<sub>4</sub> batteries.
- **Compact and Portable:** Lightweight and space-saving design ideal for portable setups.
- **Safety Features:** Includes reverse polarity protection, PV over-voltage protection, and overcharge prevention, ensuring reliable operation.
- **User-Friendly Interface:** Equipped with an LCD screen for real-time monitoring and plug-and-play SAE connectors for effortless setup.

## Wiring





## APPLICATIONS

- **Portable Solar Solutions:** Perfect for small solar charging systems such as camping kits.
- **RV and Mobile Power:** Efficient charging on the go for caravans and vehicles.
- **Residential Battery Backups:** Ideal for compact rooftop solar setups in urban areas.



## PARAMETERS

Model No.	M1210P
System Voltage	12V
Charging Mode	MPPT
Battery Types	GEL/AGM/LiFePO <sub>4</sub>
No-load Loss	12V/20mA ; 24V/12mA
Operating Temperature	-20°C ~ +45°C
Storage Temperature	-40°C ~ +80°C
Communication Port	Built-in Bluetooth Module(Optional)
LCD Meter and Buttons	Color LCD Screen + Button
IP Protection	IP45
Net Weight	130g
Controller Dimension	96.4*61.6*27mm
Operating Altitude	≤3000m
Max Charging Current	10A
Standard Accessories	Two SAE Wires
Product Protection	PV Over-Voltage, PVReverse Protection,Battery Over-Charge, Battery Reverse Protection, ControllerOver-Heating, HighAmbient Temperature
Max Solar Input Voltage	<30Voc
Max Solar Input Power	150W
<b>Battery Parameters</b>	
Battery Types	<div>GEL (Default)</div> <div>AGM</div> <div>LI (LiFePO<sub>4</sub>)</div>
Equalize Charge Voltage	--
Boost Charge Voltage	14.2V*n
Float Charge Voltage	13.8V*n

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