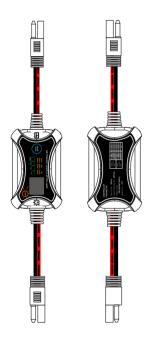
# MPPT Solar Charge Controller M1210P User Manual



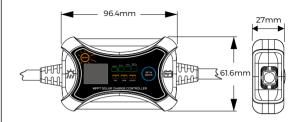
#### Main Feature

- · 10A MPPT solar charge controller with portable design.
- · 3-stage charging optimizes battery performance.
- · Suitable for battery types such as GEL, AGM and LiFePO<sub>4</sub>.
- · LCD shows Battery Voltage and Charge Current, etc .
- Indication of LED inducts Battery Soc, Charging Sta and Battery type.
- · User-friendly key press operation, more simple and easier.
- · Easy to be mounted.
- · Overcharge, Over-temperature, Reverse Polarity Protection.

## **Warning and Caution**

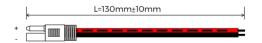
- Designed for 12V batteries, please don't connect to higher voltage batteries.
- · The PV Voc cannot exceed 35V.
- $\cdot$  Please use the device within rated power and voltage range.
- Avoid placing solar panels in partially sunny or shaded environments.
- · Keep controller away from water.
- · Keep controller in an environmental temperature from
- 20°C~+55°C. Avoid direct sunlight exposure.
- Please keep the device in a ventilated and heat dissipating environment

## **Product Dimension**

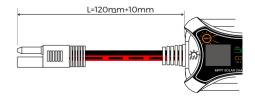


## Wire Dimension

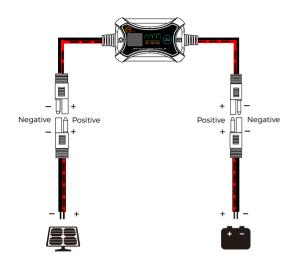
#### 1) Accessories



#### 2) Controller



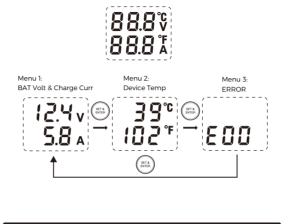
# Installation



# **Key Operation**

Function Key	System Mode	Operation	Operation Indication
	View Mode (LCD only)	Long Press	Enter Set Mode
SET & ENTER		Short Press	Screen Page Switch
	Set Mode (Battery LED only)	Long Press	Exit Set Mode And Save
		Short Press	Edit Battery Type

# LCD Display Indication

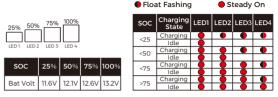


## **Error Code**

Code	Error
E00	No Error
E01	Over-Discharge
E02	Battery Over Voltage
E06	Device Over Heating
E10	PV Over Voltage
E13	Solar Reverse Polarity
E14	Battery Reverse Polarity

# **LED Display Indication**

#### 1) Battery SOC Indication



#### 2) Battery Type Indication

System mode

Abbreviations Battery Types	Abbroviations	Battery Types	
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1				
_		Equalize	GEL	-
		Charge Voltage	AGM	14.6V
		(7 days cycle)	LiFePO <sub>4</sub>	-
		Boost	GEL	14.2V
ı		Charge	AGM	14.4V
ı		Volt.	LiFePO,	14.4V
ı		Float	GEL	13.8V
٦	<b>1</b>   c	Charge	AGM	13.8V
ı		Volt.	LiFePO,	-

- 5 '

AGM LiFePO,

		Charge	AC
Abbreviations	Battery Types	Voltage (7 days cycle)	LiFe
		Boost	G
GEL	GEL Battery	Charge	Α
		Volt.	LiFe
AGM	AGM Battery	Float	G
		Charge Volt.	A
LiFePO,	Lithium iron phosphate battery		LiFe

Describe

Parameter	Value
No-load Loss	20mA
Max Solar Input Voltage	<30Voc
Rated Solar Charge Current	10A
Max Solar Input Power	150W
Operating Temperature	-35°C~+45°C
IP Protection	IP45
Net Weight	145g
Operating Altitude	≤3000 meters
Controller Dimension(mm)	96.4*61.6*27