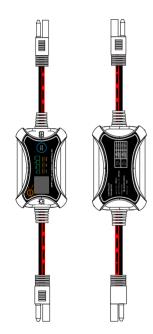
MPPT Solar Charge Controller M1210P User Manual



Reminder: The controllers can be installed indoor only.

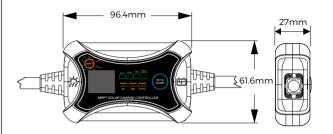
Main Feature

- · 10A MPPT solar charge controller with portable design.
- \cdot 3-stage charging optimizes battery performance.
- · Suitable for battery types such as vented GEL、AGM and LiFePO₄.
- · LCD shows Battery Voltage and Charge Current, etc.
- · 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.

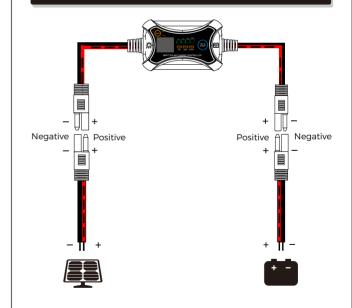
Warning and Caution

- \cdot Designed for 12V batteries, do not connect to higher voltage batteries.
- · The PV Voc cannot exceed 35V
- · Use 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.
- · Keep good heat dissipation.

Product Dimension

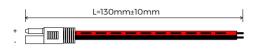


Installation

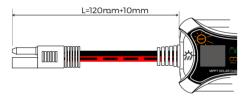


Wire Dimension

1) Accessories



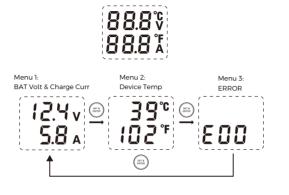
2) Controller



Key Operation

Function Key	System Mode	Operation	Operation Indication
SET & ENTER	(LCD only)	Long Press	Enter Set Mode
		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

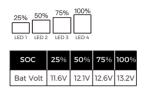


Error Code

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



Float	at Fashing	1	St	teady	On
soc	Charging State	LED1	LED2	LED3	LED4
<25	Charging		•		•
\25	Idle				
<50	Charging			•	•
\30	Idle				
<75	Charging				
1 5</td <td>Idle</td> <td></td> <td></td> <td></td> <td></td>	Idle				
>75	Charging				
>/5	Idle				

2) Battery Type Indication

System mode		Describe
View Mode		The current battery
Set Mode	•	type is selected

	'
Abbreviations	Battery Types
GEL	GEL Battery
AGM	AGM Battery
LiFePO.	Lithium iron phosphate battery

Equalize Charge Voltage (7 days cycle)	GEL	-
	AGM	14.6V
	LiFePO ₄	-
Boost	GEL	14.2V
Charge Volt.	AGM	14.4V
	LiFePO ₄	14.4V
Float Charge Volt.	GEL	13.8V
	AGM	13.8V
	LiFePO ₄	-

AGM LiFePO.

Parameter	Value
No-load Loss	12mA
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	110g
Operating Altitude	≤3000 meters
Controller Dimension(mm)	96.4*61.6*27