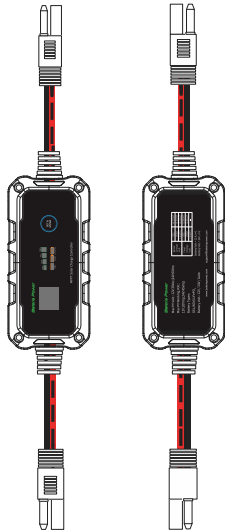


Bateria Power

MPPT Solar Charge Controller

User Manual



www.bateriapower.com

support@bateriapower.com

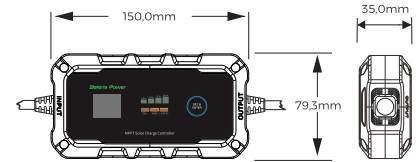
Main Feature

- 20A MPPT solar charge controller with portable design.
- 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 indicates 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.

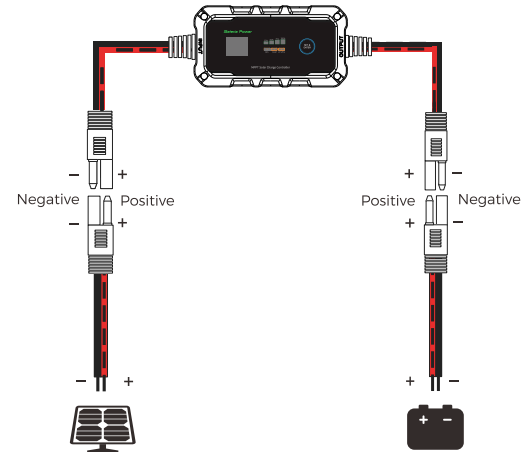
Warning and Caution

- Designed for 12V/24V/Auto batteries.
- The PV Voc cannot exceed 60V.
- Use within rated power and voltage range.
- Avoid placing solar panels in partially sunny or shaded environments.
- Keep controller away from water.
- Avoid direct sunlight.
- Keep good heat dissipation.

Product Dimension



Installation

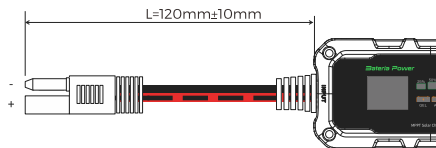


Wire Dimension

1) Accessories



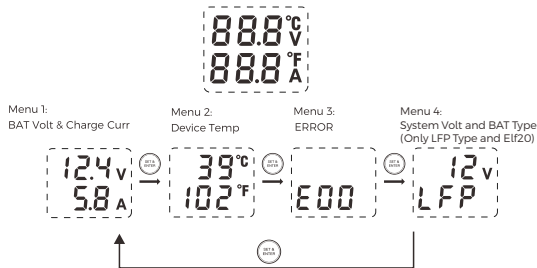
2) Controller



Key Operation

Function Key	System Mode	Operation	Operation Indication
	(LCD only)	Long Press	Enter Set Mode
		Short Press	Screen Page Switch
	Set Mode (Battery LED only)	Long Press	Enter Next Set Item or Exit Set Mode And Save
		Short Press	Edit Parameter

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



SOC	25%	50%	75%	100%
Bat Volt	11.6V	12.1V	12.6V	13.2V

SOC	Charging State	LED			
		LED1	LED2	LED3	LED4
<25	Charging	●	●	●	●
	Idle	●	●	●	●
<50	Charging	●	●	●	●
	Idle	●	●	●	●
<75	Charging	●	●	●	●
	Idle	●	●	●	●
>75	Charging	●	●	●	●
	Idle	●	●	●	●

● Float Flashing ● Steady On

2) Battery Type Indication

System mode	Describe
View Mode	●
Set Mode	●

The current battery type is selected

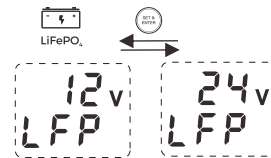


Abbreviations	Battery Types
GEL	GEL Battery
AGM	AGM Battery
LiFePO ₄	Lithium iron phosphate battery

Equalize Charge Voltage	GEL	-
	AGM	14.6V
Boost Charge Volt.	LiFePO ₄	-
	GEL	14.2V
Float Charge Volt.	AGM	14.4V
	LiFePO ₄	14.4V
AGM	GEL	13.8V
	AGM	13.8V
LiFePO ₄	LiFePO ₄	13.8V

3) System Voltage

After setting the battery type to LiFePO₄, long-press to enter to system voltage selection interface, in this operation interface, the LiFePO₄ indicator light is flashing, 12/24V is also flashing on the screen. The user can choose 12V or 24V as system voltage. Then long-press to exit the settings.



Parameter	Value
No-load Loss	12V/20mA; 24V/12mA
System Voltage	12V/24V AUTO
Max Solar Input Voltage	12V/30Voc; 24V/60Voc
Rated Solar Charge Current	20A
Max Solar Input Power	300W/12V; 600W/24V
Operating Temperature	-20°C~+45°C
IP Protection	IP45
Net Weight	350g
Operating Altitude	≤3000 meters
Controller Dimension(mm)	150*79.3*35