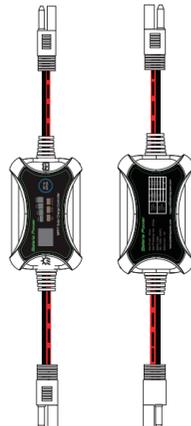尺寸：75*140mm，6折页

正面

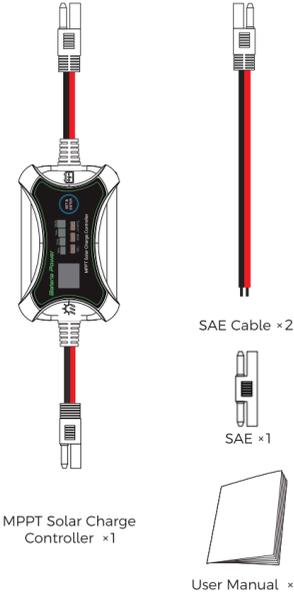# Bateria Power

MPPT Solar Charge Controller

User Manual

Bateria Power

Bateria Power is committed to becoming a leading technical company in the clean energy industry, the company has been deeply engaged in the photovoltaic/battery/charging industry for many years, hoping that our products and technologies allow users to feel the fun of using new energy, and at the same time contribute to the carbon reduction of the earth.

We look forward to direct communication with users, if you have any problems or unpleasantness during use, please feel free to contact us, your comments will be accepted without any reservation, and for our future product improvement, thank you!
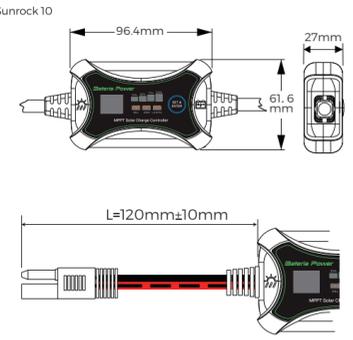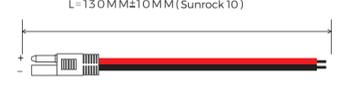
Packing List

SAE Cable ×2

SAE ×1

MPPT Solar Charge Controller ×1

User Manual ×1

Product Overview

1) Controller

Sunrock 10

96.4mm

27mm

61.6 mm

L=120mm±10mm

2) Accessories

L=130MM±10MM(Sunrock 10)

Product Description

The product designed for charging from solar to battery, this mppt solar charge controller with very high charging efficiency, and easy to be operated, which can ensure you a good operation experience, and enjoy the fun of clean energy.

Main Feature

◆ 10A 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 status and battery type.
◆ User-friendly key press operation, simpler and easier.
◆ Easy to be installed.
◆ Overcharge, over-temperature, reverse polarity protection.

Bateria Power

Technical Support:
www.bateriapower.com
support@bateriapower.com

背面

Specification

Parameter	Value
No-load Loss	20mA
System Voltage	12V
Battery Type	AGM/GEL ; LiFePO₄
Max Solar Input Voltage	<30Voc
Rated Solar Charge Current	10A
Max Solar Input Power	150W
Operating Temperature	-20℃~+45℃
Internal Protection Temperature	-40℃~+80℃
IP Protection	IP45
Net Weight	145g
Operating Altitude	<3000 meters
Controller Dimension(mm)	96.4*61.6*27

Installation Guide

Positive Negative

Negative Positive
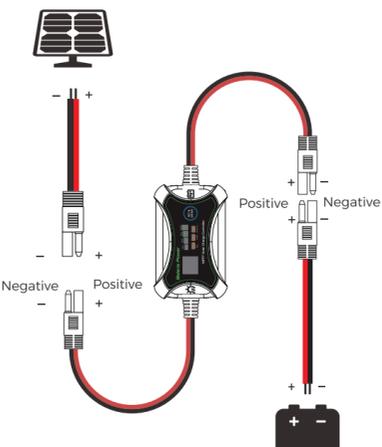
Note:
First to connect the battery, then connect PV panel.

Product Instruction

1) LCD Display Indication

88.8℃
88.8A

Menu 1:
BAT Volt & Charge Curr

12.4v
5.8 A

Menu 2:
Device Temp

39℃
102℉

E00

Menu 3:ERROR
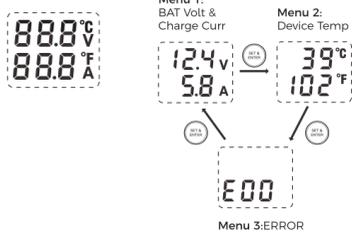
2) Battery SOC Indication

25% 50% 75% 100%
LED 1 LED 2 LED 3 LED 4

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

This SOC is for user reference

● Float Fashing　　● Steady On

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

3) Key Operation

Function Key	System Mode	Operation	Operation indication
SET & ENTER	View Mode (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

4) Battery Type Setting

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

Abbreviations	Battery Types
GEL	GEL Battery
AGM	AGM Battery
LiFePO₄	Lithium iron phosphate battery

5) Charger Step For Different Battery

GEL

AGM

LiFePO₄

		Battery	Voltage
Equalize Charge Voltage	GEL	-
	AGM	14.6V
	LiFePO₄	-
Boost Charge Volt.	GEL	14.2V
	AGM	14.4V
	LiFePO₄	14.4V
Float Charge Volt.	GEL	13.8V
	AGM	13.8V
	LiFePO₄	-

Warning and Caution

► Solar Panel: Recommend to use nominal 18V panel for 12V battery, Please do not arbitrarily use in series.
► Do not exceed PV Voc request as following: the PV Voc cannot exceed 30V; Otherwise the product be damaged.
► Charging start condition: PV voltage is 3V higher than battery voltage. PV minimum charging voltage is higher than 15V for 12V battery, Meanwhile the battery voltage should be higher than 3V.
► The products should be used 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.

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