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› Bateria Power 10A MPPT Wireless Solar Charge Controller User Manual

## Bateria Power 10A MPPT Sunrock 10Pro

# Bateria Power 10A MPPT Wireless Solar Charge Controller (Sunrock 10Pro)

User Instruction Manual

## INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Bateria Power 10A MPPT Wireless Solar Charge Controller. This intelligent solar regulator is designed for 12V battery systems and features Bluetooth APP control, an LCD display, and LED indicator lights. It is compatible with various 12V battery types including Gel, AGM, Lithium, and LiFePO4.

## SAFETY INFORMATION

- Always connect the charge controller to the battery first before connecting the solar panel.
- Ensure correct polarity when making all connections. Incorrect polarity can damage the device.
- Do not connect to higher voltage batteries than 12V.
- The controller has built-in protections (Over Charge, Over Temperature, Over Voltage, Over Current, Short Circuit, Discharge, Reverse Polarity, Over Load Protection). However, always follow proper installation procedures.
- Keep the device away from water and extreme temperatures. The operating temperature range is -20°C to +45°C (-4°F ~ +113°F).
- For detailed operation help, contact customer support.

## PRODUCT OVERVIEW

The Bateria Power 10A MPPT Solar Charge Controller is a compact and efficient device designed to optimize solar charging for 12V battery systems.

### Key Features:

- **Wireless Phone APP Intelligent Control:** Remote monitoring and parameter customization.

- **100% Efficient MPPT Charging:** Maximizes solar energy utilization, saving charging time.
- **Mini & Portable Design:** Compact size for easy carrying and connection.
- **LCD Display & LED Indicate Light:** Provides real-time monitoring of working conditions.
- **Designed for 12V Batteries:** Compatible with AGM, Gel, Deep Cycle, Sealed, Lead Acid, Flooded, and LiFePO4 batteries.
- **High Security:** Intelligent 3-stage charging (Equalize, Float, Boost) and multiple protection systems.

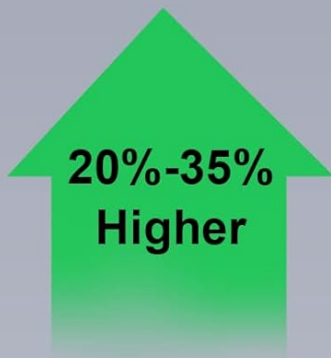
## Components:

- 10A MPPT Solar Charge Controller with BT
- 1 Pair SAE Extension Cable
- User Manual



Figure 1: Bateria Power 10A MPPT Solar Charge Controller with included accessories.

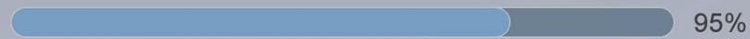
# 100% EFFICIENCY MPPT



## Bateria Power MPPT 10A Solar Charge Controller



Other Brand MPPT 10A Solar Charge Controller



Normal PWM 10A Solar Charge Controller



Figure 2: Product Dimensions. The controller measures approximately 96.4mm x 61.6mm x 27mm.

## Product Video:

Video 1: Demonstrates the compact size and high efficiency of the MPPT controller.

## SETUP INSTRUCTIONS

1. **Connect to Battery First:** Always connect the charge controller to your 12V battery before connecting the solar panel. Ensure correct polarity (red to positive, black to negative). The controller's LCD display will light up, showing battery voltage and current.
2. **Connect Solar Panel:** After the battery is connected, connect your solar panel to the controller. The controller will begin charging the battery.
3. **Verify Connections:** Check the LCD display for charging status. The solar symbol on the display indicates solar input.

## Parameter

No-load Loss: 20mA

Max Solar Input Voltage: <30Voc

Rated Solar Charge Current: 10A

Max Solar Input Power: 150W

Temperature Compensation:  
-40°C ~ + 80°C (-40°F ~ + 176°F)

Operating Temperature:  
-20°C ~ +45°C (-4°F ~ +113°F)

IP Protection: IP45

Net Weight: 145g

Operating Altitude: ≤3000 meters

Controller Dimension(mm): 95.4\*61.6\*27



Figure 3: Proper connection sequence for the solar charge controller. Connect battery first, then solar panel.

### Important Notes:

- Maximum Solar Input Voltage: < 30Vdc.
- Recommended Solar Voltage for 12V System: 18V.
- Maximum Solar Input Power: 150W.
- If the display does not light up, please check the positive and negative poles for correct connection.

### Product Video:

Video 2: Illustrates how to set up a small off-grid system with the solar charge controller.

## OPERATING INSTRUCTIONS

### LCD Display and LED Indicators:

The controller features an LCD display showing real-time voltage and current. LED indicators show battery charge level



(25%, 50%, 75%, 100%) and selected battery type (GEL, AGM, LiFePO4).

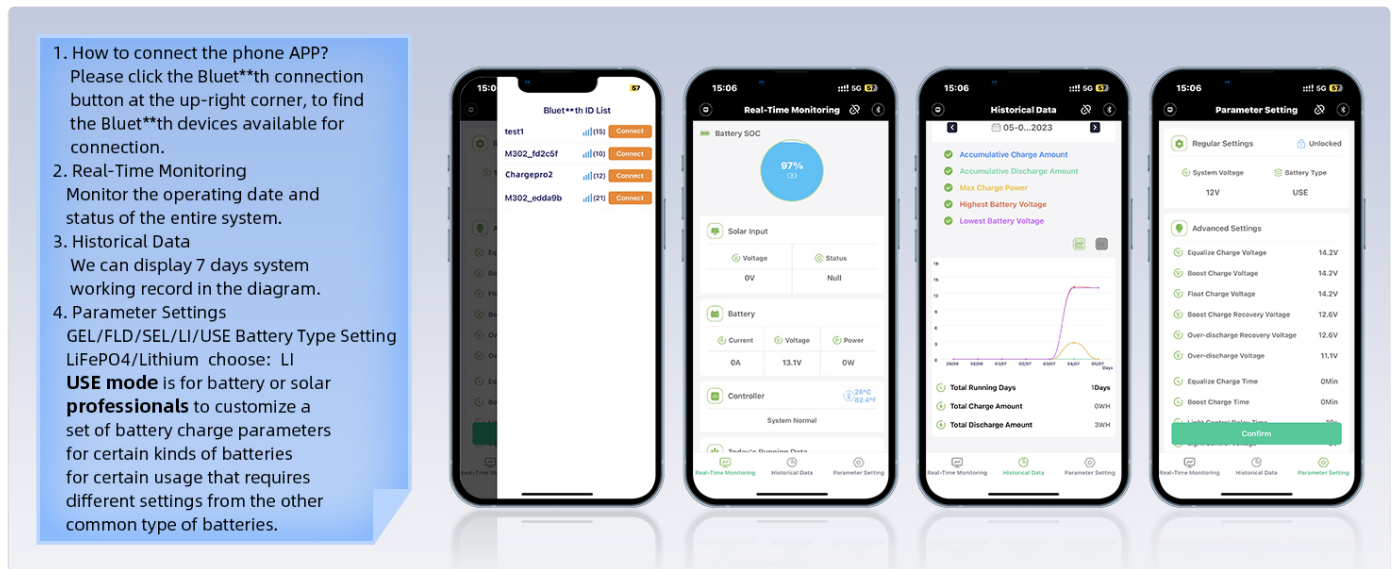


Figure 4: LCD Screen and LED Indicator details.

## Battery Type Selection:

To change the battery type (Gel, AGM, LiFePO4), long-press the "SET & ENTER" button until the battery type indicator starts flashing. Short-press the button to cycle through the options. Long-press again to confirm your selection.

## 3-Stage Charging Optimizes Battery Performance

|                         | GEL   | AGM   | LiFePO4 |
|-------------------------|-------|-------|---------|
| Equalize Charge Voltage | —     | 14.6v | —       |
| Boost Charge Volt.      | 14.2v | 14.4v | 14.4v   |
| Float Charge Volt.      | 13.8v | 14.4v | —       |



Figure 5: 3-Stage Charging Parameters for various battery types.

### Wireless Phone APP Control:

The controller supports wireless monitoring and control via a smartphone application.

1. **Download APP:** Scan the QR code provided in the Quick Start Guide or search for "ChargePro 2.0" in your app store.
2. **Connect via Bluetooth:** Open the app and click the Bluetooth connection button (usually in the upper-right corner) to find available devices. Select your controller to connect.
3. **Real-Time Monitoring:** Monitor operating data and status of the entire system, including solar input voltage, battery current, voltage, power, and controller temperature.
4. **Historical Data:** View 7 days of system working records in the diagram.
5. **Parameter Setting:** Customize battery charge parameters. The "USE Mode" allows professionals to set custom parameters.
6. **Factory Settings Recovery:** If you wish to restore all DIY settings, use the "Factory Settings Recovery" option in the app.



Figure 6: Remote monitoring and control via the smartphone app.



Figure 7: Detailed views of the ChargePro 2.0 app interface.

**Note:** Clear historical data only erases records in the controller, not previous settings.

Download the app here: [ChargePro 2.0 \(iOS App Store\)](#)

## Product Video:

Video 3: Highlights the 100% tracking efficiency of the MPPT controller.

## MAINTENANCE

- Keep the controller clean and free from dust and debris.
- Regularly check all wiring connections for tightness and corrosion.
- Ensure the controller is installed in a well-ventilated area to prevent overheating.

- Periodically inspect the battery terminals for cleanliness and secure connections.

## TROUBLESHOOTING

| Problem                              | Possible Cause                                                                      | Solution                                                                                                              |
|--------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Controller display is off            | Incorrect battery connection or low battery voltage.                                | Check battery connections for correct polarity and ensure battery voltage is above minimum operating level.           |
| No charging current from solar panel | Solar panel not connected, insufficient sunlight, or incorrect solar panel voltage. | Verify solar panel connection. Ensure adequate sunlight. Check solar panel voltage is within specifications (<30Vdc). |
| Overheating                          | Poor ventilation or excessive load.                                                 | Ensure proper airflow around the controller. Reduce load if necessary.                                                |
| Bluetooth connection issues          | App not properly installed, Bluetooth off on phone, or interference.                | Reinstall the ChargePro 2.0 app. Ensure Bluetooth is enabled on your device. Try connecting closer to the controller. |

## SPECIFICATIONS

- **Model:** 10A MPPT Sunrock 10Pro
- **Rated Solar Charge Current:** 10A
- **Max Solar Input Voltage:** < 30Vdc
- **Max Solar Input Power:** 150W
- **Voltage:** 12 Volts
- **Display Type:** LCD
- **IP Protection:** IP45
- **Operating Temperature:** -20°C ~ +45°C (-4°F ~ +113°F)
- **Temperature Compensation:** -40°C ~ +80°C (-40°F ~ +176°F)
- **Item Weight:** 5.1 ounces (approx. 145g)
- **Controller Dimension (mm):** 95.4 x 61.6 x 27
- **No-load Loss:** 20mA
- **Operating Altitude:** ≤3000 meters

## WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your Bateria Power product, please refer to the contact details provided on the product packaging or visit the official Bateria Power website.

Visit the Bateria Power Store: [Bateria Power Store on Amazon](#)