

## BLUETTI Charger 2

# BLUETTI Charger 2 1200W Alternator and DC-DC Charger User Manual

Model: Charger 2

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## 1. INTRODUCTION

The BLUETTI Charger 2 is a versatile 1200W alternator and DC-DC charger designed to efficiently power your portable power stations and solar generators. It features dual input capabilities, allowing charging from both your vehicle's alternator and solar panels. This device offers up to 13 times faster charging compared to a standard car cigarette lighter socket and includes emergency jump-start functionality for your vehicle's battery. It also incorporates advanced voltage monitoring to prevent car battery discharge.

# Ricarica 13 volte più veloce

1 kWh, carica completa in 1 ora.

**BLUETTI Charger 2**  
Max 1200 W (alternatore + FV)

1 kWh – meno di 1 ora

**13** più veloce

**BLUETTI Charger 1**  
Max 560 W

**6X**

1 kWh – 2+ ore

**Presse accendisigari auto**  
96 W (12 V 8 A)

1 kWh – 13+ ore

\* Rispetto alla presa dell'auto da 12 V.

Image: The BLUETTI Charger 2 main unit, a compact gray device with ventilation grilles.

## 2. WHAT'S IN THE BOX

Please verify that all items are present and in good condition upon unboxing:

- BLUETTI Charger 2 (Alternator and DC-DC Charger)
- Car Battery Cable
- Power Station Cable Kit
- MC4 Input Cable
- Bidirectional Power Cable
- 75A Fuse
- Self-tapping Screws
- User Manual

## Prepara l'installazione

1. Verifica che tutti i componenti siano presenti.
2. Prepara gli strumenti e la power station.
3. Spegni il veicolo.

\* Tutti gli accessori mostrati sono inclusi.



Image: All components included with the BLUETTI Charger 2, laid out on a white surface.

## 3. SAFETY INFORMATION

To ensure safe operation and prevent damage, please read and adhere to the following safety guidelines:

- Always wear personal protective equipment (PPE) such as gloves and safety glasses during installation.
- Avoid high temperatures, sharp edges, or friction points when routing cables.
- Ensure all screws and connections are tightened securely to prevent wear or loose connections.
- Turn off your vehicle or use the app to disable the Charger 2 before changing any cables.
- Ensure positive and negative terminals are correctly matched during connection.
- Use the BLUETTI DC input cable or a compatible one with a 60A circuit breaker for safety.
- Do not connect the Charger 2 ports to an AC outlet.
- When using a power station, follow its user manual for proper usage and storage.
- Switch off the vehicle before any electrical work.
- Do not clean the product with water.
- Do not disassemble the product yourself.
- Keep the product away from heat sources and high temperatures.
- Avoid use in areas with fire, explosive gases, or smoke.
- Store away from flammable or explosive materials.
- Do not use in saline or humid environments.
- Do not insert foreign objects into any ports or ventilation openings.
- Do not put fingers or hands into the product.
- Avoid contact with metallic objects during operation.
- Ensure the product is completely dry before use.
- Use in a clean and well-ventilated area.
- Devices must be installed or serviced only by qualified technicians.
- Use only BLUETTI cables and accessories.
- Do not use if cables or outlets are damaged.
- Pull the plug, not the cable, when disconnecting.
- Immediately deactivate the circuit breaker in case of malfunction.
- Regularly check the product and its accessories for damage or deterioration. If the product shell is cracked, do not use it and contact BLUETTI support.

- Keep children, pets, insects, and other animals away from the product.
- This product is designed for exclusive use with IT/AV products.

## 4. SETUP & INSTALLATION

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Follow these steps to install your BLUETTI Charger 2. For a visual guide, please refer to the installation video below.

Your browser does not support the video tag. Please update your browser to view this content.

Video: Installation guide for BLUETTI Charger 1, demonstrating the connection process for a DC-DC charger in a vehicle. The steps are applicable to Charger 2.

### 4.1. Prepare for Installation

1. Ensure your vehicle is turned off and the battery is in good condition.
2. Verify your car battery is compatible with the Charger 2 (should be a standard 12V or 24V car battery, or two 12V batteries connected in series).
3. Confirm that the Charger 2's output voltage (15-56V) matches the DC input voltage range of your power station. Use a compatible adapter if necessary.
4. Gather all necessary tools: gloves, screwdriver, wrench, utility knife, and zip ties.

### 4.2. Connect the Cables

1. **Mount the Charger 2:** Choose a suitable location in your vehicle (e.g., trunk, under a seat) and secure the Charger 2 using the provided self-tapping screws or zip ties.
2. **Connect Input Cables to Charger 2:**
  - Unscrew the base and lift the cover of the Charger 2.
  - Connect the red cable (BAT+) to the 'Input+' terminal and the black cable (BAT-) to the 'Input-' terminal on the Charger 2.
  - Tighten the screws using the provided hex key to secure the connections.
3. **Connect MC4 Output Cable to Charger 2:**
  - Connect the red MC4 cable (Output+) to the 'Output+' terminal and the black MC4 cable (Output-) to the 'Output-' terminal on the Charger 2.
  - Tighten the screws using the provided hex key.
4. **Connect Charger 2 to Power Station:** Connect the MC4 output cable from the Charger 2 to the DC input port (e.g., INPUT/MPPT) of your BLUETTI power station. Ensure the power station is compatible with the Charger 2's output voltage.
5. **Connect Charger 2 to Car Battery:**
  - Route the car battery cable from the Charger 2 through the vehicle's firewall to the engine compartment. Locate an existing entry point or create a new one if necessary, ensuring proper sealing.
  - Connect the OT terminals of the car battery cable to your vehicle's battery terminals. Connect the red cable (BAT+) to the positive (+) terminal and the black cable (BAT-) to the negative (-) terminal. Securely tighten the connections.



Image: Detailed view of connecting the input cables to the Charger 2 unit.

### Collega alla batteria dell'auto

1. Installa il fusibile sul cavo rosso (positivo) della batteria.
2. Instrada il cavo verso la batteria di avviamento.
3. Collega il cavo ai terminali della batteria.

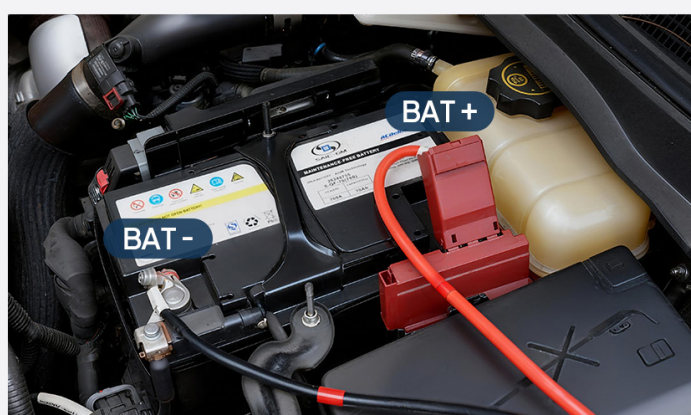


Image: Step-by-step connection of the Charger 2 cables to the vehicle's battery terminals.

## 4.3. Activate the Charger 2

1. Start your vehicle's engine.
2. Activate the DC input circuit breaker (if included with your cable kit).
3. The Charger 2 will automatically detect the vehicle's alternator and begin charging. The green indicator light on the Charger 2 will flash rapidly during startup and then become solid green when charging successfully.

## 5. OPERATING INSTRUCTIONS

### 5.1. Charging Your Power Station

Once installed and activated, the BLUETTI Charger 2 will automatically charge your connected power station when the vehicle's engine is running. It utilizes both alternator and solar input (if solar panels are connected via the MC4 input cable) to provide up to 1200W of charging power.

### 5.2. Emergency Jump-Start

The Charger 2 can provide an emergency jump-start for your car battery. This function reverses the charging flow, using your BLUETTI power station or battery pack to deliver power to the car's starting battery. Refer to the BLUETTI app for specific settings and activation of this feature.

### 5.3. BLUETTI App Integration

The BLUETTI app allows for smart monitoring and control of your Charger 2. You can monitor input/output power, adjust charging voltage, and manage various settings directly from your smartphone.

1. Download the BLUETTI app from your device's app store (search for 'BLUETTI').
2. Ensure Bluetooth is enabled on your smartphone.
3. Open the app and follow the on-screen instructions to bind your Charger 2.
4. Within the app, you can select your specific BLUETTI power station model. The app will automatically set the optimal charging voltage for your device.

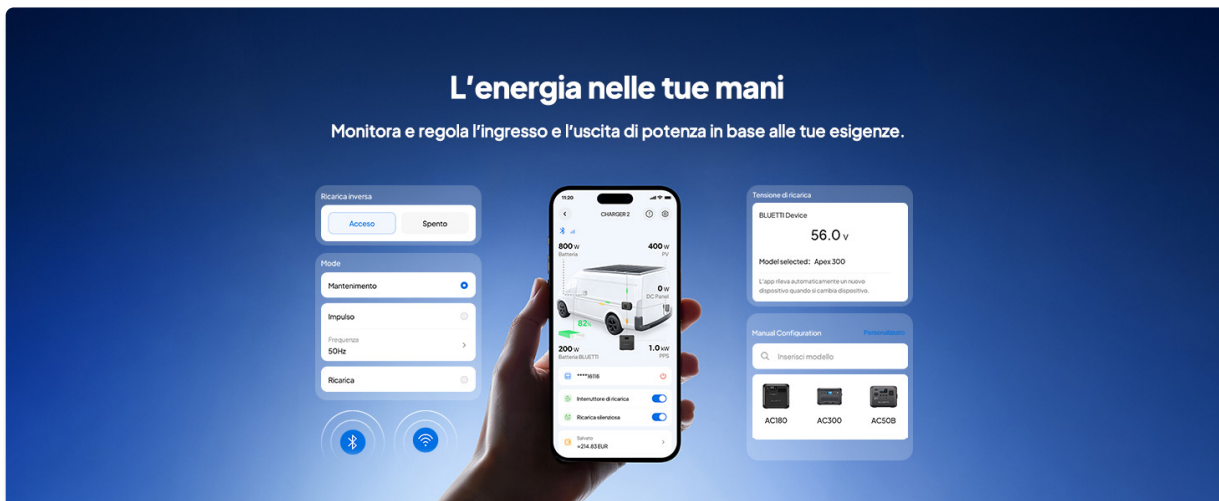


Image: Screenshot of the BLUETTI mobile app interface, displaying energy monitoring and control options for connected devices.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your BLUETTI Charger 2.

- Keep the device clean and free from dust and debris. Use a dry, soft cloth for cleaning.
- Ensure the ventilation grilles are not obstructed to prevent overheating.
- Store the Charger 2 in a dry, well-ventilated area when not in use.
- Periodically check all cable connections for tightness and signs of wear or damage. Replace any damaged cables immediately.
- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods.

## 7. TROUBLESHOOTING

If you encounter issues with your BLUETTI Charger 2, refer to the following common problems and solutions:

- **Device not turning on:** Check all power connections. Ensure the vehicle engine is running and the DC input circuit breaker is activated.
- **Not charging power station:** Verify that the Charger 2's output voltage matches the power station's input requirements. Check all cable connections between the Charger 2 and the power station. Ensure the green indicator light on the Charger 2 is solid.
- **App connection issues:** Ensure Bluetooth is enabled on your phone and the Charger 2 is within range. Restart the app and try reconnecting.
- **Overheating:** Ensure the Charger 2 is in a well-ventilated area and its vents are not blocked. Reduce

the load if possible.

- **Car battery discharge:** The Charger 2 is designed to prevent this. If you suspect discharge, ensure the D+ signal is correctly connected (for smart alternators) and the unit is properly installed.

If the problem persists, please contact BLUETTI customer support.

## 8. SPECIFICATIONS

Feature	Detail
Brand	BLUETTI
Model Number	Charger 2
Color	Black
Item Weight	1.6 Kilograms
Output Voltage	12 Volts (DC)
Input (Analog RGB)	MC4
Number of Ports	5
Max Alternator Input	800W
Max Solar Input	600W
Total Power Output	Up to 1200W

## 9. WARRANTY & SUPPORT

### 9.1. Warranty Information

The BLUETTI Charger 2 comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official BLUETTI website for detailed terms and conditions regarding warranty coverage and duration.

### 9.2. Customer Support

For technical assistance, troubleshooting, or any questions regarding your BLUETTI Charger 2, please contact BLUETTI customer support through their official website or the contact information provided in your product packaging. When contacting support, please have your product model and serial number ready.

