

ETaker

F2000 Alternator and Solar Charger for Portable Power Stations and Backup Batteries

2000W Max

VERSION V0 NOV.21, 2024



USER MANUAL

The operation and maintenance manual provides important guidance for the ETaker F2000 Alternator and Solar Charger.

Please read the user manual carefully before use and keep it properly for future reference. Failure to follow the instructions or preventive measures in the user manual may result in electric shock, serious injury, or death, or damage to the battery charger, rendering it inoperable.

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Online Manual



User manual



App





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1. Product Overview

1.1 ETaker F2000 Introduction

ETaker F2000 Alternator and Solar Charger is built on the core principles of "fast charging, flexible expansion, and safety and reliability," providing an efficient and convenient outdoor power solution. It incorporates dual-channel bidirectional digital power technology and can be flexibly adapted for various scenarios such as quick charging for portable power stations in vehicles, cost-effective construction of small capacity vehicle power systems, large capacity RV or marine power systems, etc., all configurable through a mobile app.

1.2 Core Features of the Product

- Supports dual input from the vehicle Alternator and solar panels, up to 2000W, capable of charging 2KWh of electricity in as fast as 1 hour. Solar charging priority is supported.
- Dual-channel output with wide compatibility, supporting ETaker and other portable power stations, as well as various lithium batteries, lead-acid batteries, etc., with the option to configure a charging voltage of over 60V.
- Supports reverse charging the car battery to start the car.
- Solar input can be configured for 12/24/36/48V DC output to directly power various DC appliances.
- Device parameters can be configured, operation controlled, and device status viewed through the app.

1.3 Technological Advancements of the Product

- Utilizes GaN conversion technology with efficiency exceeding 95%, compact size, and low heat generation.
- Features the alloy shell for high-strength protection and efficient heat dissipation.

2 Main Unit and Accessories

2.1 Panel Appearance



Figure 1 Front Panel



Figure 2 Rear Panel

0	Alternator (Car battery port	Connected to the car starter battery.
2	Solar (Solar Input)	Connected to the solar panels.
3	DC (DC Output Port)	Used for charging batteries or other portable power stations.
4	ETaker power station	For charging ETaker portable power stations (M2000 portable power station use the DC port for charging).
5	Power Button	Press and hold for 3 seconds to turn on press and hold for 3 seconds to turn off.
6	Indicator	Different working modes correspond to different light indicators.
7	ALT (Alternator Status Detection)	Detects the status of the car generator to automatically start or stop the generator operation.
8	Fan	Do not obstruct the fan's vent; leave at least 5 cm of space for heat dissipation.

LED INDICATOR

Name	Status	Description
(((•	Solid 1 HZ Flashing 5HZ Flashing	WiFi or Bluetooth is connected No network configuration Connection reset in progress
STA	Solid Flashing Breathing	Running Entering WiFi setup mode Started but not meeting operating conditions
ERR	Solid Flashing	Error Alarm
ON/OFF	Solid Off	Power on Sleep mode

2.2 Packing List



3 Installation Guide

3.1 Installation Precautions

- The wiring process for this product is recommended to be completed by professionals.
- When wiring and installing, please wear personal protective equipment such as safety goggles and gloves.
- When wiring, avoid with high temperatures, sharp edges, or friction, and secure the wires properly to prevent movement that could cause wear or loosen connections.
- Always follow the battery safety instructions during the installation process.
- It is advisable to start the vehicle and turn on the product switch only after the wiring is complete.
- If it is necessary to change the wiring, ensure that the product is powered off and disconnected from the battery.

3.2 Installation Guidelines

3.2.1 Port Installation



1. Connect the alternator port to the car alternator



Step 1: Connect the fuse box to the positive terminal of the car starter battery:

• Connect the O-terminal of the provided fuse box to the positive terminal (+) of the car starter battery.

Step 2: Connect the car starter battery connection cable to the fuse box:

- Connect the input positive terminal point (red) of the provided car starter battery connection cable bundle to the other end of the fuse box.
- Ensure the correct order of the O-terminal, washer, and nut.
- Tighten the connector to a torque of 3-4 N*m, as shown in the diagram.

Step 3: Connect the car starter battery connection cable to the negative terminal of the car starter battery:

• Connect the negative terminal of the car starter battery connection cable to the negative terminal of the car starter battery. Tighten the nut to a torque of 3-4 N*m, as shown in the diagram.

Step 4: Connect the car starter battery connection cable to the alternator port of the F2000:

• Connect the positive and negative terminals of the O-terminals at the other end of the car starter battery connection cable to the positive and negative terminals of the F2000 Alternator input port respectively, ensuring correct polarity.

2. Connect the solar input to the solar panels



Step 1: Connect F2000 to solar panel:

• Connect the O-terminals of the OT to MC4 cable to the F2000, and then connect the MC4 port to the MC4 port of the solar panel, ensuring proper polarity differentiation.

Important Note:

- If the port is set to charging mode in the app, it will function as a regular solar input port.
- The connected solar panel's open-circuit voltage range is 18-60V. Voltage exceeding 60V may damage the F2000, and voltage below 18V may lead to non-operation.
- If the port in the app is set to DC output mode, it will output DC power for driving DC appliances. *Special Note: In this mode, do not connect solar panels.



3. Connect the ETAKER port to the ETAKER portable power station

Step 1: Connect F2000 to ETAKER portable power station:

• Use the dedicated connection cable for the ETaker portable power station, plug one end into the ETaker interface of the F2000, and the other end into the DC Extend Port of the ETaker portable power station.

Important Note:

- This connection method is not suitable for the M2000 portable power station; please refer to the method below.
- This cable is not included with the F2000. It is provided only when purchasing the ETaker portable power station with the F2000 kit.

4. Connecting the DC output port to other portable power stations



Step 1: Connect the DC output port to portable power stations:

- Connect the O-terminals of the provided DC output cable (OT to MC4) to the F2000 DC output port (set the F2000 DC port to Chging power station mode via the app).
- Connect the MC4 port to the solar adapter cable provided with other portable power stations, usually MC4-XT60 or other adapter cables, and then connect the adapter cable to the solar input port of the portable power stations.

Important Notes:

- The solar adapter cable for portable power stations is typically MC4-XT60, MC4-XT90, MC4-Anderson, usually provided with the portable power stations. If not included, it needs to be purchased separately. This product includes OT to MC4 and some OT terminals for custom cable production.
- This feature is compatible with portable power stations supporting 24-48V solar charging, allowing for charging the portable power stations by simulating solar panel output, ensuring good compatibility. Some products may not have solar input capabilities, or may not support solar maximum voltage below 24V, which may result in lack of support.
- To charge the portable power stations, it needs to be set via the app, with the DC port operating in "Chging power station mode."

5. Connect the DC output port to a backup battery



Step 1: Connect the DC output port to the backup battery:

- F2000 comes with OT round terminals, so you can make your own battery-specific connection cable according to your own battery positive and negative connection methods.
- Connect the OT terminals to the F2000 according to the positive and negative poles, and connect the other end to the positive and negative terminals of the battery.

Important Note:

- The supported charging voltage range for batteries is 12-60V. Ensure correct polarity when connecting the battery; improper connection may damage the F2000.
- Charging the battery requires proper setting of the DC port parameters through the app. Refer to the app port settings for detailed instructions.

6. Connect the DC output port to DC appliances



Step 1: Connect the DC output to DC appliances:

- The provided OT circular terminals can be used to create a custom connection line based on the connection method of your DC appliances.
- Connect the OT terminals to the F2000 according to the positive and negative poles, and connect the other end to the DC appliance.

(Note: DC output mode is a professional power function supporting 12/24/36/48V. Be cautious not to set the voltage incorrectly, which may damage the appliance. ETaker is not liable for any damages resulting from incorrect voltage settings and connections leading to appliance damage.)

7. Typical installation scenarios

Scene 1



• In this mode, the AC generator port is connected to the car starter battery, the solar port is connected to the solar panel, and the ETaker port is connected to the ETaker portable power station.

Scene 2



 In this mode, the AC generator port is connected to the car starter battery, the solar port is connected to the solar panel, and the DC port serves as the output port, connecting to other brands of portable power stations or lithium-ion batteries.



Scene 3

 In this mode, the car generator port serves as the input port, connected to the car starter battery; the solar port functions as the output port, directly powering DC appliances.

3.2.2 F2000 overall installation

- Use the auxiliary mounting plate to locate the hole positions and mark them with a marker.
- Drill 4 holes with a diameter of 5mm along the marked positions.
- Fix the auxiliary mounting plate to the back of the F2000 using 4 M5 screws.
- Insert the self-tapping screws through the auxiliary mounting plate and into the drilled holes.
- Leave a spacing of more than 5cm around the product.

Important Note:

For optimal performance and safety, please follow these guidelines when placing and operating the product:

- **Proximity:** Ensure the power station or backup battery connected to the product is positioned nearby for easy access and cable management.
- **Space:** Keep the product's ports clear of obstructions, allowing for convenient connection and disconnection of cables.
- **Environment:** Place the product in a dry and clean area with adequate ventilation. Avoid exposure to excessive heat or direct sunlight.
- Flammable Materials: Keep the product away from flammable materials such as fuel or aerosols.
- Ventilation: Do not cover the product with blankets or similar items. Allow for proper air circulation.
- Child and Pet Safety: Keep the product out of reach of children and pets.

3.2.3 How to disconnect the cable

• Before disconnecting the input or output cables, first turn off the power station or backup battery, then turn off the product. After that, use the removal tool to disconnect the cables.

3.3 Cable replacement

- If you need to replace the output cable, please purchase the official matching cable.
- If you need to replace the input cable, fuse connection cable, or fuse, please contact official customer support for consultation and purchase, and have a professional perform the replacement.

4 Operation Guide

4.1 Power On/Off

Power On: Press and hold for 3 seconds; the ON/OFF indicator will stay lit. Power Off: Press and hold for 3 seconds; the ON/OFF indicator will turn off.



Initial startup:

- For the initial startup, the product requires parameter settings via a connected mobile phone to function. Please refer to the following instructions.
- After the initial setup, the product does not require parameter settings again when powered on by long-pressing; it will default to the last working parameter settings.

4.2 Device pairing operation

How to put your device into pairing mode:

1.Power On: Press and hold the Power button for 3 seconds to turn on the device.

2.Double-Click: Double-click the Power button. You will see the "STA" light start flashing.

3.Enter Pairing Mode: Press and hold the Power button for another 3 seconds. The "Wireless" indicator light will flash rapidly, and when the "Wireless" indicator light slows down, it means you have successfully entered pairing mode.

Binding your device:

1.Open the "Smart Life" App: Search for the "Smart Life" app in your phone's app store and log in to your account.

2.Add Device: Click on the "Add Device" button (or the "+" icon) located in the top right corner of the app. This will start the device search.

3.Enable Bluetooth: Ensure that Bluetooth is enabled on your phone.

4.Pairing: Follow the on-screen prompts in the "Smart Life" app to bind the selected device to your account. This may involve a specific pairing process tailored to the particular device.

Sign up and log in

Sign up

Launch the App, click "Sign Up".



11:07

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A verification code has been sent to your email Connie@etakerpower.com Resend (56s)

Didn't get a code?

11:08

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Set Password

Password XW Use 6-20 characters with a mix of letters and numbers

Log in

If you have a account already, tap "Log in" to enter account name & password. If you forget your password, on the password login page, click "Forgot Password" and follow the steps to reset it.



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Forgot Password	Forgot Password	

Log in by third-party account

If you need to log in or create with your Apple ID, click the corresponding icon at the bottom of the login page, and then bind your email to continue.

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Device's Wi-Fi connection

For devices that support a Wi-Fi connection, you can establish a Wi-Fi connection between the mobile phone and the device through the App. For information on whether the device supports the Wi-Fi connection, you can check the manual of the corresponding device. Click the "Add Device" button on the home page of the App, you can select the corresponding device that supports a Wi-Fi connection in the manually added device list, and according to the instructions of the App.



Sensors Plug Socket (BLE+WI-Fi) (Wi-Fi)

Socket (Zigbee)

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4.3 APP parameter settings

TopBar Title emperature Fan speed 24°C 0%	Aurt switch	1	Temperature	Real-time display of the temperature when the F2000 is working.
stor Solar Port Etaker Po starge Power 1.3V 131W	er DO Rey Etaker Satich	2	Fan Speed	Real-time display of the fan speed when the F2000 is working.
DC settings Work Mode IC_Out Changing Bat	Grappy Ri	3	Run Switch	main switch
Output Solar Voltage	4697.5	4	Voltage	Real-time display the voltage of the port in different modes in real time.
		5	Power	Real-time display of port power in different modes.

Figure 1 Display of the APP Page

4.3.1 Alternator port settings

1.Alternator Chging



In this mode, it means that the alternator port is in charging mode, and the input power and current can be set.

2.Charge Car Bat



In this mode, it means that the alternator port is in reverse charging mode, which means that the starter battery can be charged (ignited) through the backup battery or Etaker port with Etaker power station. Cannot be charged by other portable power stations.

3.Activate Car Bat



In this mode, the backup battery or ETaker portable power station provides pulse current to the car starter battery, used to activate the car starter battery, enhance performance, and extend its lifespan.

4.3.2 Solar port settings

1.Solar Input



In this mode, it means that the solar port is in charging mode, which means that the backup battery/power station/electrical appliances can be charged through the solar panel.

2.DC Output



In this mode, the solar port is in DC OUTPUT mode, capable of driving DC appliances with voltages ranging from 12/24/36/48V through the alternator or power station.

4.3.3 ETaker port settings



Prerequisite: The ETaker Port is connected to an ETaker product. Activating this switch signifies the activation of the ETaker dedicated port, with the alternator and solar input prioritizing charging for ETaker products. If the ETaker Port is not connected to an ETaker portable power station, it will not be enabled.

4.3.4 DC Port Settings

1.DC-OUT



In this mode, the DC port is in constant voltage DC OUTPUT mode, capable of directly powering DC appliances.

2.Charge Bat



In this mode, the DC port is in charging mode, primarily for charging batteries with input voltages ranging from 12-60V. The app allows independent setting of the battery's charging voltage, charging current, as well as pre-charging voltage and pre-charging current.

Important Note: Please set the correct battery charging voltage and charging current; the pre-charging voltage and pre-charging current are mainly for trickle charging when the battery voltage is low, i.e., when the battery voltage is below the pre-charging voltage, the pre-charging current is used for charging.



3.Charge Power Station

In this mode, the DC port is in portable power station charging mode, with DC port output simulating solar panel output characteristics. It can be set to 24V or 48V solar panel output, making it compatible with almost all portable power stations.

Important Note: Check the solar input range that the portable power station can handle.

4.3.5 Port Setting Precautions

- At least 2 ports need to be configured for normal operation.
- Parameters cannot be modified during device operation.
- When the ETaker port is not connected to an ETaker product and using the DC port for battery charging, ensure correct settings for pre-charging voltage, pre-charging current, charging voltage, and charging current of the battery.
- Battery charging mode is a professional mode intended for individuals familiar with their battery characteristics; correct battery voltage and current settings are essential. Avoid using this mode when unfamiliar with the circumstances
- For portable power station charging mode, understand the charging voltage of your portable power station to set the correct voltage. If uncertain, try setting the APP parameters to 24V for better compatibility.
- Due to variations in permissible charging power for different portable power stations and batteries, the actual charging power during operation is determined by the device being charged and the battery. While the device's maximum power is 2000W, if the portable power station's and battery's charging power is less than 2000W, charging will be based on the lower power.
- When both the ETaker interface and DC port are configured to be active, the F2000 cannot charge them simultaneously. The F2000 will always prioritize charging the ETaker portable power station. Once the ETaker is fully charged, it will continue charging the DC port.
- Port settings have a memory function; the parameters will retain the previous settings after power outage.

4.3.6 Example of Classic Scenarios

• Scene 1: Charging the ETaker Portable Power Station with Alternator and Solar Input.

1.Set the alternator port to the Alternator Chging mode and turn on the alternator switch.2.Set the solar port to the solar input mode and turn on the solar port switch.3.Turn on the Etaker port switch.

• Scene 2: Charging a 48V Backup Battery with Alternator and Solar Input.

Set the alternator port to the Alternator Chging mode and turn on the Alternator switch.
 Set the solar port to the solar input mode and turn on the solar switch.

3.Set the DC port to the Charging Bat mode and configure the charging voltage, charging current for the 48V battery, as well as the pre-charging voltage and pre-charging current. Then, turn on the DC port switch.

4.4 Run Operation

4.4.1 Power On/Off

- After correctly installing the F2000, press and hold the F2000 On/Off button to power on. Once successfully paired with the app, follow the instructions in section 4.3 to configure the parameters. Turn on the main operation switch to start the unit. You can shut down the charging by using the app's main operation switch.
- Important Note: Important Note: when not in use for an extended period, power off by long-pressing the On/Off button. After shutting down, the F2000 will enter low-power sleep mode, the wireless module will be turned off, and the WIFI module cannot wake up.

4.5 Real-time Monitoring

- Through the app, you can monitor the system's operating status, including fan speed, temperature, and the status of each port, including port voltage and port power.
- Positive power values represent input, while negative power values represent output.

4.6 Operational Precautions

- This device belongs to the semi-professional power charging category and requires appropriate parameter configuration to start operation.
- Ensure correct installation before initiating operation through the app startup.
- Confirm accurate working modes and parameter settings before pressing the run switch.

5 Specifications

Model	F2000	Net Weight	1.72kg 3.79lb
Dimensions (W×D×H)	270*160*47mm	Wi-Fi	Frequency Range: 2412 MHz-2472 MHz Maximum Output Power: 18.22dBm
Bluetooth	Frequency Range: 2402 MHz-2480 MHz Maximum Output Power: 7.89dBm	Charging Mode	Input: 11~15V, 70A Max, 800W Max 22~30V, 40A Max, 1000W Max Output: Input Voltage ~ 60V 1000W Max
Maintaining Mode	Input: 22V - 60V 3A Max Output: 14.4V/28.8V 100W Max	Reverse Charging Mode	Input: 26V - 60V, 21A Max Output: 14.4V, 800W Max 28.8V, 1000W Max
Fuse Rated Current	125A	Protection Type	Input Reverse Polarity Protection Overcurrent Protection Short Protection Overvoltage Protection Undervoltage Protection Overtemperature Protection
Operating Temperature	-20°C to 60°C	Storage Temperature	-30°C to 70°C
Operating Humidity	≤95%	Storage Humidity	≤95%

6 Daily Use

- Before unplugging any cables, ensure that the product is powered off.
- Please check the wiring regularly, at least once a month, to ensure that the terminals are tight and to inspect the cables for any cracks, wear, or corrosion. If any issues are found, stop using the product immediately and replace the cables according to the instructions in the "Cable Replacement" section.
- Do not touch the product for extended periods while it is in operation.
- Use a dry, soft, and clean cloth or paper towel to wipe the product.
- For product repairs, please contact official customer service.
- Do not disassemble the product yourself, as this may damage the product and void the warranty.
- The radio transmission device model approval code (CMIIT ID) can be found on the product nameplate.

7 Q&A

1.Car Starter Battery or House Battery

• Please ensure that your car starter battery or house battery is a rechargeable battery without defects, with a nominal voltage of 12V or 24V.

2.Is this product compatible with all vehicle models?

• Some older or special vehicle models may experience abnormal operation of this product due to overall low voltage. In such cases, please adjust the starting voltage of the product in the app.

3.Power Station or Backup Battery

• The car charger (F2000) connects to the charging port of the power station or backup battery via the output cable.

4. Which batteries can be charged?

• It can support common backup batteries like lead-acid, lithium-ion, and others for charging.

8 Maintenance and Care

Input Cable	Fuse Connection Cable	Fuse
Wire Gauge: 6 AWG	Wire Gauge: 6 AWG	Rated Current: 125A

- Please check the wiring regularly every month to ensure that the terminals are tightened and to inspect the cables for any cracks, wear, or corrosion. If any issues are found, please stop using the F2000 immediately and replace the cables according to the instructions in the "Cable Replacement" section.
- Please use a dry, soft, and clean cloth or paper towel to wipe the F2000.

9 Troubleshoot

F2000 can troubleshoot related issues by fault codes through the APP.

serial number	Fault Code	Descript ion	Possible Causes	Solution
1	101	CAR Overvoltage	1.High voltage at CAR port 2.Faulty voltage sampling circuit at CAR port	1.Reduce input voltage, then click the button on the device or turn off the main switch in the APP 2.Send for repair
2	102	CAR Overcurrent	 Excessive load Excessive input current or power settings Faulty current sampling circuit at CAR input port 	1.Click the button on the device or turn off the main switch in the APP2.Reduce input current or power through the APP3. Send for repair
3	103	CAR Output Overcurrent	 Excessive load Excessive output current or power settings Faulty current sampling circuit at output port 	 Click the button on the device or turn off the main switch in the APP Reduce output current or power through the APP Send for repair
4	201	SOLAR Overvoltage	1.High voltage at CAR port 2.Faulty voltage sampling circuit at CAR port	1.Reduce input voltage, then click the button on the device or turn off the main switch in the APP 2.Send for repair
5	202	SOLAR Overcurrent	1.Excessive load 2.Excessive input current or power settings 3.Faulty current sampling circuit at CAR input port	 Click the button on the device or turn off the main switch in the APP Reduce input current or power through the APP Send for repair
6	203	SOLAR Output Overcurrent	 Excessive load Excessive output current or power settings Faulty current sampling circuit at output port 	 Click the button on the device or turn off the main switch in the APP Reduce output current or power through the APP Send for repair
7	301	Output Overvoltage	 Uncouple the connection line under high current Faulty voltage sampling circuit at CAR port 	1.Click the button on the device or turn off the main switch in the APP 2.Send for repair
8	302	Output Overcurrent	 Excessive load Excessive output current or power settings Faulty current sampling circuit at output port 	 Click the button on the device or turn off the main switch in the APP Reduce output current or power through the APP Send for repair
9	303	Output Overload	1.Excessive load 2. Excessive output current or power settings	 Click the button on the device or turn off the main switch in the APP Reduce output current or power through the APP Send for repair

10	801	Device Overheating	1.1.Enclosed device installation position2.High working environment temperature3.Prolonged high power output	 1.Leave a 5cm gap at the device installation position 2.2.Move the device to an environment below 45 °C 3. Reduce output power through the APP
11	802	Device under temperature	Very low working environment temperature	 Ensure a 5cm spacing for the device installation. Place the device in an environment below 45 °C. Reduce the output power through the app.
12	803	Fan Malfunction	Fan damage	Send for repair

10 Emergency Measures

- In an emergency, please ensure to take electrical shock prevention measures before touching the product, such as wearing insulated gloves.
- If the product comes into contact with water, stop using it immediately. Do not use or power it on again. Place the product in a safe, waterproof area and contact the customer service at ETaker for assistance.
- If the product falls into water, place it in a safe, waterproof area and do not approach it until it is completely dry. Do not use the product again once it has dried; dispose of it properly according to local laws and regulations.
- If the product catches fire, use the following fire extinguishing agents in the recommended order: water or water mist, sand, fire blanket, dry powder extinguisher, carbon dioxide extinguisher.
- If the product is accidentally knocked over and severely damaged, wear insulated gloves, power off the product, and place it in an open area away from flammable materials and people. Dispose of it according to local laws and regulations.