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› ETAKER F1000 Pro Smart Charger User Manual

ETAKER YZ-AC-F1000P

ETAKER F1000 Pro Smart Charger User Manual

Model: YZ-AC-F1000P

1000W Dual-Input Car/Solar Charging, Adjustable 12-48V DC Output, APP-Enabled

1. INTRODUCTION

Thank you for choosing the ETAKER F1000 Pro Smart Charger. This device is designed to provide efficient and versatile charging solutions for power stations and various batteries, utilizing both vehicle alternator and solar energy inputs. It features a 1000W maximum input, adjustable 12-48V DC output, and smart app control for comprehensive management. This manual provides essential information for safe and effective operation of your F1000 Pro Smart Charger.

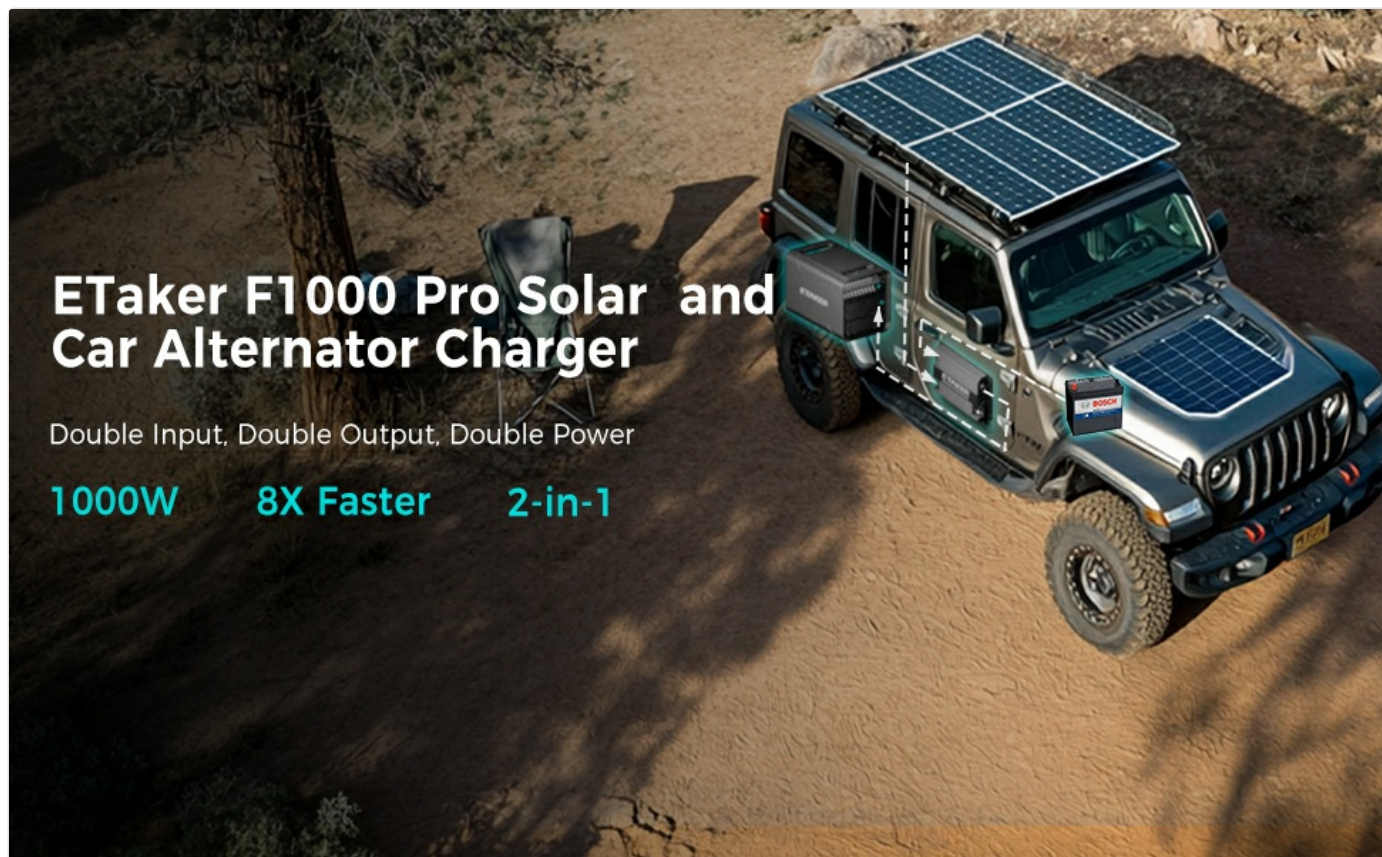


Figure 1.1: The ETAKER F1000 Pro Smart Charger integrated into a vehicle setup, demonstrating its dual input (solar and alternator) and dual output capabilities for charging power stations.

2. IMPORTANT SAFETY INFORMATION

Please read and understand all safety instructions before operating the ETAKER F1000 Pro Smart Charger. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Read all instructions:** Before using the product, read all instructions and cautionary markings.
- **Keep away from water:** Do not expose the charger to rain or wet conditions.
- **Proper ventilation:** Ensure adequate ventilation during operation. Do not cover the charger.
- **Use specified accessories:** Use only accessories recommended or sold by the manufacturer.
- **Avoid damage:** Do not operate the charger if it has received a sharp blow, been dropped, or otherwise damaged.
- **Qualified personnel:** Servicing should be performed by qualified service personnel only.
- **Battery compatibility:** Ensure the charger settings match the battery type and voltage being charged.
- **Correct polarity:** Always connect with correct polarity to avoid damage to the charger and battery.
- **Fuse protection:** Ensure proper fuse protection is in place for all connections.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- ETAKER F1000 Pro Charger
- Fuse Connection Cable
- Input Cable (5m)
- Quick Guide
- OT Terminal to MC4 Connection Cable (x4)
- OT Terminals (x4)
- Heat Shrink Tubing (x6)
- M5 Screws (x6)



Figure 3.1: Contents of the ETAKER F1000 Pro Smart Charger package. This image displays the F1000 Pro charger unit, a fuse connection cable, a 5-meter input cable, a quick guide, four OT terminal to MC4 connection cables, four OT terminals, six pieces of heat shrink tubing, and six M5 screws.

4. PRODUCT OVERVIEW

The ETAKER F1000 Pro is a versatile smart charger designed for robust power management in various applications, including RVs, marine systems, and off-grid setups. It integrates advanced charging technologies for optimal performance and safety.

4.1 Key Features

- **Dual Input & Fast Charging:** Simultaneously utilizes vehicle alternator and solar energy with up to 1000W max input, enabling rapid charging of power stations.
- **Smart Dual-output System:** Supports both ETAKER portable power stations and other brands, as well as 12-48V lithium and lead-acid batteries.
- **Car Jump Start & Battery Revival:** Functions as a car jump starter and includes technology to help extend car battery life.
- **DC Output & Appliance Power:** Configurable solar input port for 12, 24, 36, or 48V/20A DC output to power various DC appliances.
- **Smart App Control:** Allows monitoring and management of charger settings and performance via a dedicated mobile application.
- **Advanced Safety Features:** Includes reverse polarity protection, overcurrent protection, short circuit protection, overvoltage/undervoltage protection, and efficient heat dissipation.

4.2 Component Identification



Figure 4.1: Top view of the ETAKER F1000 Pro Smart Charger. The image shows the main unit with the "ETAKER Alternator & Solar Charger" branding, along with input/output terminals marked with plus and minus signs.

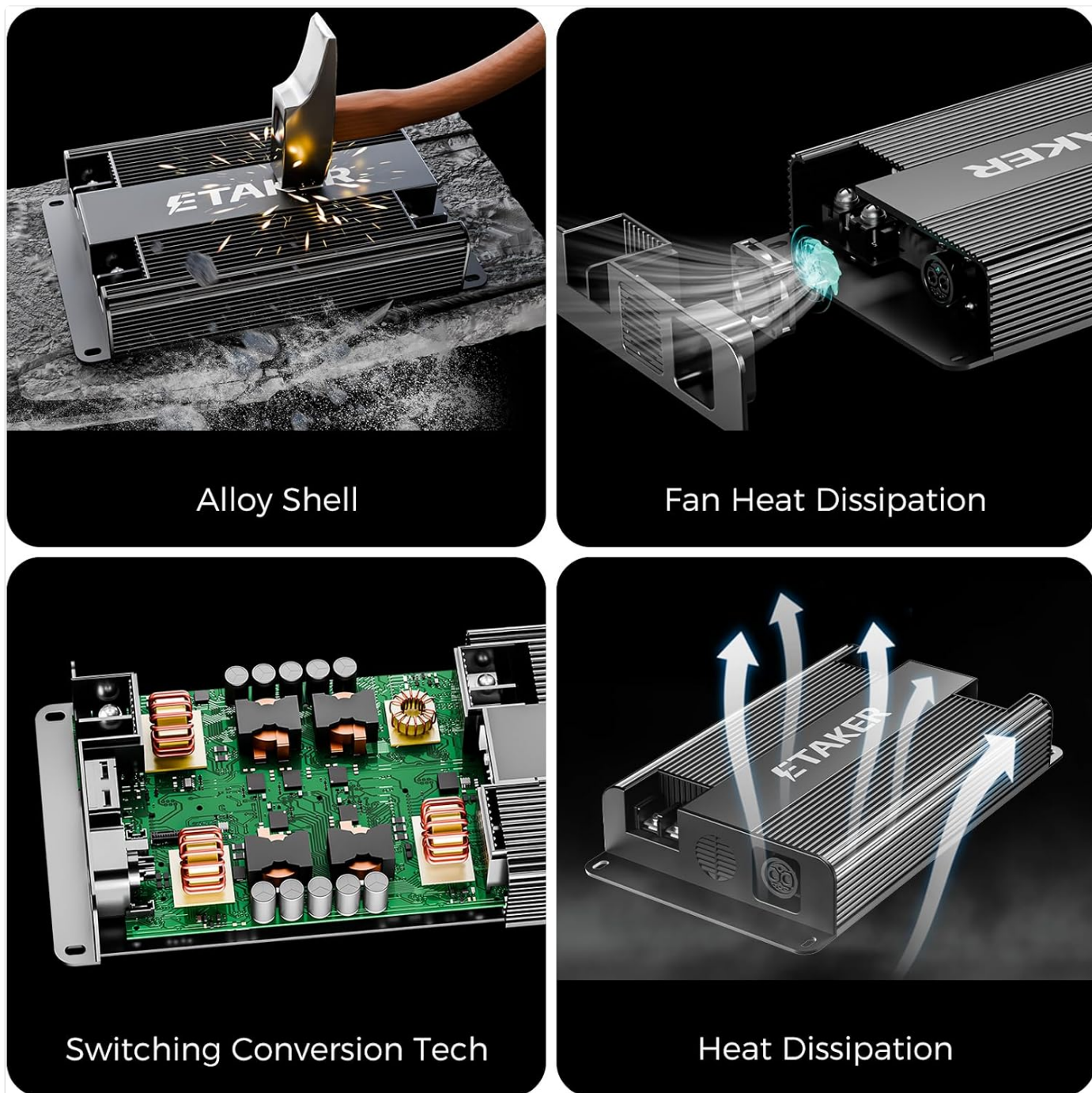


Figure 4.2: Detailed view of the internal components and heat dissipation mechanisms of the F1000 Pro. This image highlights the switching conversion technology, alloy shell heat dissipation, and fan heat dissipation, emphasizing the multiple safety guarantees.

5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your F1000 Pro Smart Charger. Ensure your vehicle's electrical system can support the charger's power requirements.

5.1 Mounting the Charger

- Choose a dry, well-ventilated location away from direct sunlight, heat sources, and flammable materials.
- Ensure the mounting surface is sturdy enough to support the charger's weight.
- Use the provided M5 screws to securely mount the charger.

5.2 Wiring Connections

All wiring should be performed with the vehicle's engine off and all power sources disconnected. Observe correct polarity

for all connections.

1. **Alternator/Car Battery Input:** Connect the provided input cable to your vehicle's alternator or starter battery. Ensure a fuse is installed on the positive line as per safety guidelines.
2. **Solar Input:** Connect your solar panels to the designated solar input port using the MC4 connection cables. Ensure the solar panel voltage and current are within the charger's specifications.
3. **Output to Power Station/Battery:** Connect the output cables to your portable power station or auxiliary battery. The F1000 Pro supports various battery types (lithium, lead-acid) and voltages (12-48V).
4. **DC Output (Optional):** If using the solar input port as a DC output, connect your DC appliances to this port. Refer to the operating section for configuration.

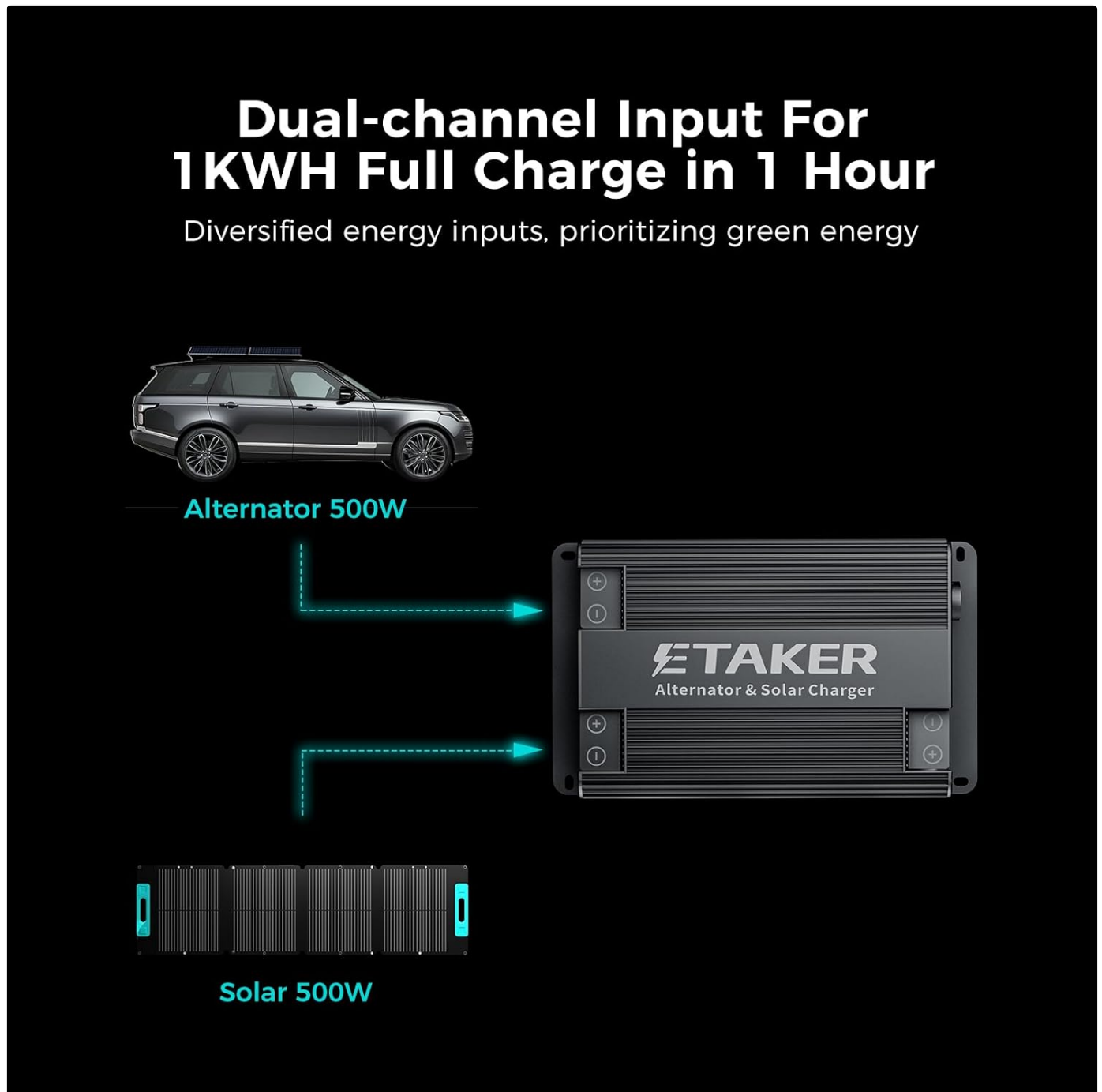
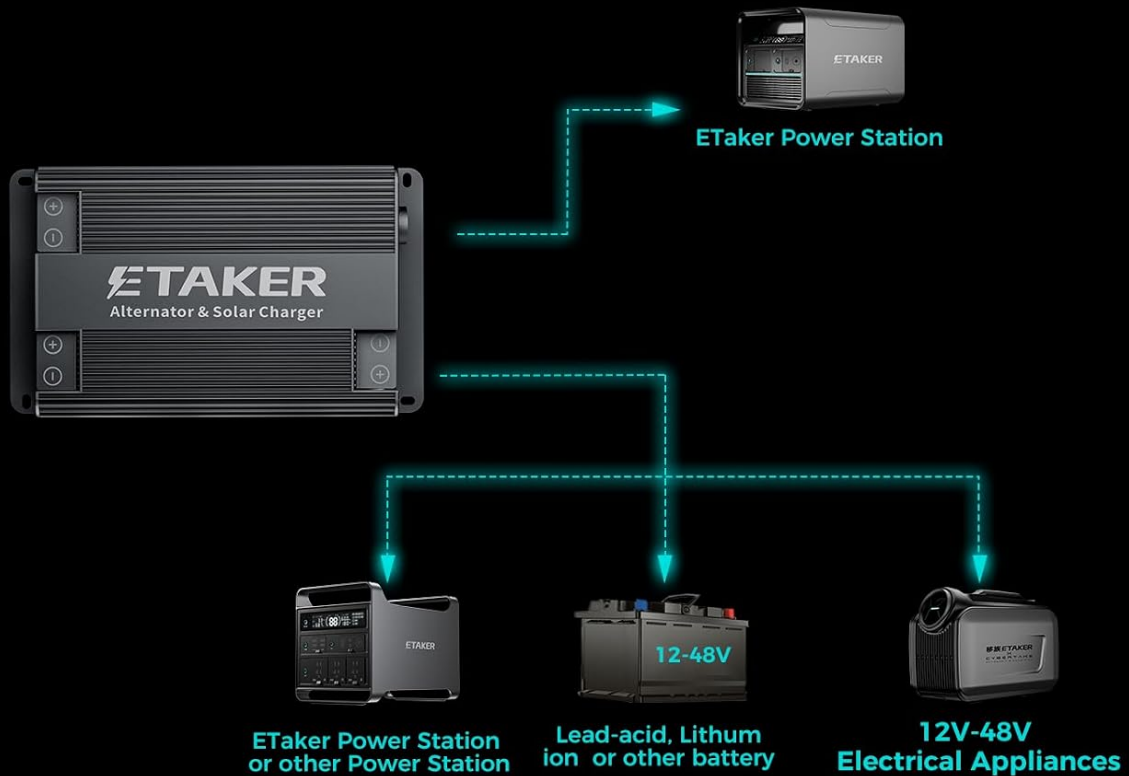


Figure 5.1: Illustration of the dual-channel input system. This diagram shows how the ETAKER F1000 Pro charger receives power from both a vehicle's alternator (500W) and solar panels (500W) to achieve a 1kWh full charge in approximately one hour.

Best Compatibility Ever For The Dual-channel Output

Perfect fit for ETaker portable power stations and battery packs



Extremely compatible with third-party power station
batteries, and DC electrical appliances

Figure 5.2: Illustration of the smart dual-output system. This diagram demonstrates the F1000 Pro's compatibility with ETAKER power stations, other portable power stations, 12-48V lead-acid or lithium batteries, and 12V-48V electrical appliances.

6. OPERATING INSTRUCTIONS

6.1 Initial Power-Up

Once all connections are secure, power on the F1000 Pro. The unit will perform a self-check. Refer to the Quick Guide for indicator light meanings.

6.2 Charging Modes

- **Alternator Charging:** When connected to the vehicle's alternator, the charger will automatically begin charging connected batteries or power stations once the alternator voltage is detected.
- **Solar Charging:** When solar panels are connected and sufficient sunlight is available, the charger will utilize solar energy. The F1000 Pro features MPPT (Maximum Power Point Tracking) for efficient solar conversion.
- **Dual Input Charging:** The charger can combine power from both alternator and solar inputs for faster charging, up

to 1000W.



Figure 6.1: The F1000 Pro Smart Charger's compatibility with different battery types. This image shows the charger's ability to charge both lithium batteries (e.g., LiFePO4) and lead-acid batteries (GEL, SLD, AGM) using a 3-stage charging process (Bulk, Boost, and Float) to ensure optimal and automatic charging to 100%.

6.3 Car Jump Start & Battery Revival

The F1000 Pro can assist in jump-starting a vehicle and reviving a car starter battery. Follow the specific instructions in the app or quick guide for this function.

Reverse Charging! Promote Car Starter Battery Health.

Support power station reverse:

- charging to car starter battery for car starting
- activation of car starter battery to enhance the lifespan

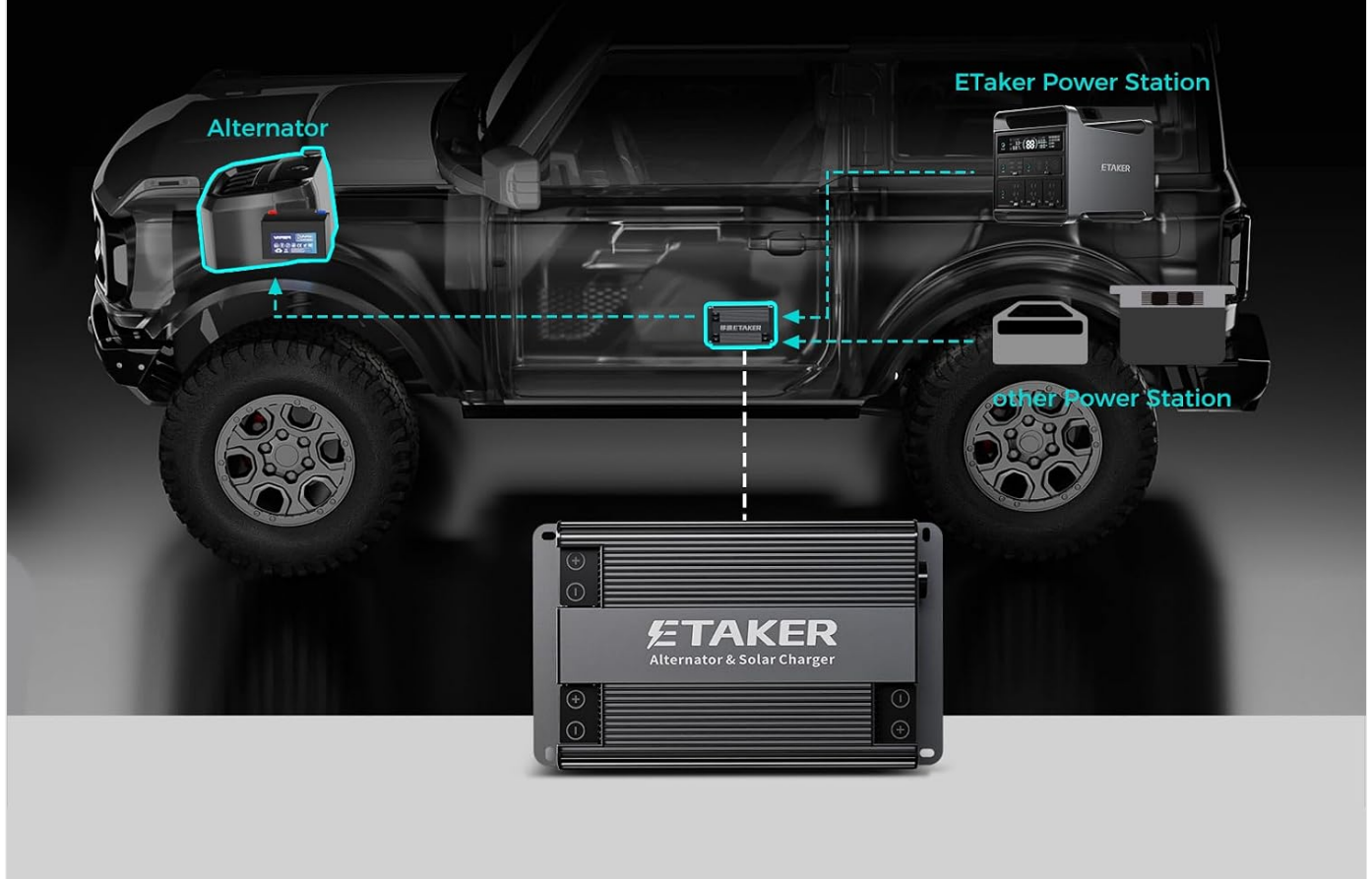


Figure 6.2: Illustration of the reverse charging feature. This diagram shows how the F1000 Pro can support charging the car starter battery for car starting and activate the car starter battery to enhance its lifespan.

6.4 DC Output Function

The solar input port can be configured via the app to function as a DC output, providing 12V, 24V, 36V, or 48V at 20A for powering compatible DC appliances.

Higher level gameplay is waiting for you to unlock!

Convert solar input to DC output.

Converts to 12,24,36,48V 20A DC output! High efficiency to drive various DC appliances!

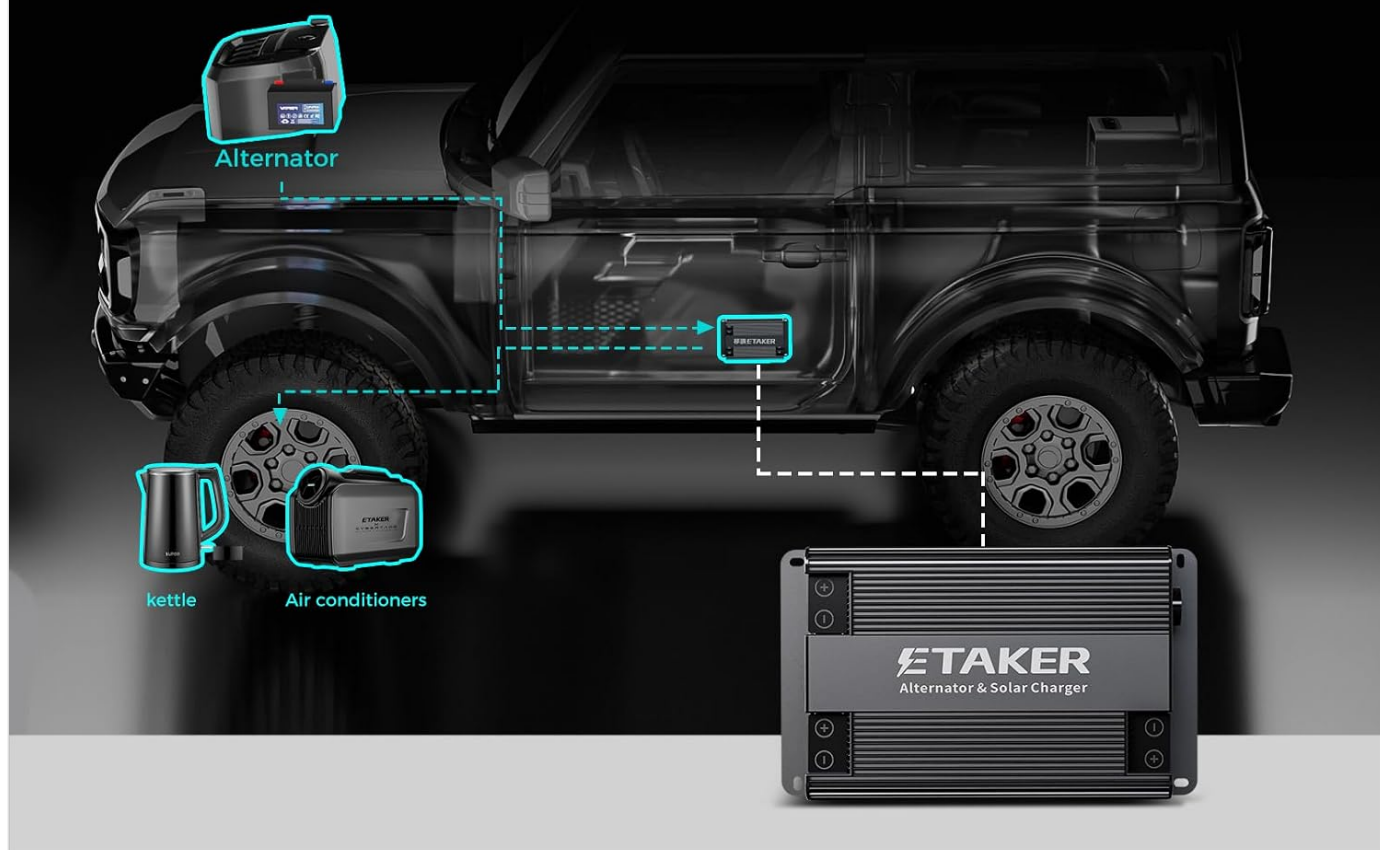


Figure 6.3: Diagram demonstrating the conversion of the solar input to a DC output. This feature allows the F1000 Pro to deliver 12, 24, 36, or 48V 20A DC power for high-efficiency operation of various DC appliances, such as a kettle or air conditioner.

6.5 Smart App Control

Download the ETAKER app (or compatible smart home app like Tuya SmartLife) to your smartphone. Follow the in-app instructions to pair your F1000 Pro. The app allows you to:

- Monitor real-time charging status and power flow.
- Adjust charging parameters and output voltage.
- Enable/disable specific functions like DC output.
- View historical data and system diagnostics.

APP Real-Time Monitoring & Management

Monitor your vehicle's energy and system status in real-time and manage your entire vehicle from anywhere, ensuring optimal performance.



Figure 6.4: Screenshot of the ETAKER mobile application interface. The app allows users to monitor the vehicle's energy and system status in real-time, manage settings such as alternator and solar port modes, and adjust charging parameters, ensuring optimal performance from anywhere.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your ETAKER F1000 Pro Smart Charger.

- **Cleaning:** Periodically clean the exterior of the charger with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners.
- **Connections:** Regularly check all electrical connections for tightness and corrosion. Loose connections can lead to overheating and poor performance.
- **Ventilation:** Ensure the ventilation openings are clear of dust and debris to prevent overheating.
- **Firmware Updates:** Check the ETAKER app for available firmware updates to ensure your charger has the latest features and performance improvements.

8. TROUBLESHOOTING

If you encounter issues with your F1000 Pro, refer to the following common problems and solutions. If the problem persists, contact customer support.

Problem	Possible Cause	Solution
Charger not powering on.	No input power; Blown fuse; Loose connection.	Check input power source; Inspect and replace fuse if necessary; Verify all connections are secure.
No charging from alternator.	Alternator not active; Low alternator voltage; Incorrect wiring.	Ensure vehicle engine is running; Check alternator output voltage; Verify alternator input wiring.
No charging from solar.	Insufficient sunlight; Solar panels disconnected; Incorrect solar input wiring.	Ensure panels are in direct sunlight; Check solar panel connections; Verify solar input wiring and polarity.
App connectivity issues.	Bluetooth/Wi-Fi off; App not updated; Charger not in pairing mode.	Ensure Bluetooth/Wi-Fi is enabled on your device; Update the app to the latest version; Follow in-app pairing instructions.
Overheating.	Poor ventilation; Excessive load.	Ensure charger is in a well-ventilated area; Clear any obstructions from vents; Reduce connected load if possible.

9. SPECIFICATIONS

Feature	Detail
Model Number	YZ-AC-F1000P
Brand	ETAKER
Product Dimensions	9 x 6.3 x 1.8 inches (22.86 x 16.00 x 4.57 cm)
Item Weight	7.3 pounds (3.31 kg)
Input Power	Dual-Input (Alternator & Solar), 1000W Max
Output Voltage	Adjustable 12-48V DC
DC Output Current	20A (when configured as DC output)
Compatibility	ETAKER Power Stations, 12-48V Lithium Batteries, Lead-Acid Batteries (GEL, SLD, AGM)
Control	Smart App Enabled
Safety Certifications	FCC, UL

10. WARRANTY AND CUSTOMER SUPPORT

ETAKER products are manufactured to the highest quality standards. This product comes with a standard manufacturer's warranty. For detailed warranty information, please refer to the warranty card included in your package or visit the official ETAKER website.

If you have any questions, require technical assistance, or need to report a problem, please contact ETAKER customer support:

- **Website:** Visit the [ETAKER Store on Amazon](#) (for general inquiries and product information)
- **Email:** Refer to your Quick Guide or product packaging for direct support email.
- **Phone:** Refer to your Quick Guide or product packaging for direct support phone number.

Please have your model number (YZ-AC-F1000P) and purchase date ready when contacting support.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question