

Jackery 1500

Jackery Portable Power 1500 (PTB152) User Manual

Model: 1500 (PTB152)

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Jackery Portable Power 1500. Please read it thoroughly before using the product and retain it for future reference. The Jackery Portable Power 1500 is a high-capacity portable power station designed to provide reliable power for various applications, including outdoor activities, emergency backup, and general household use.



Image 1.1: Front view of the Jackery Portable Power 1500, highlighting its display and various output ports.

2. SAFETY INSTRUCTIONS

To ensure safe operation, always adhere to the following guidelines:

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- Do not place the unit near fire or expose it to heat. Keep out of direct sunlight.
- Do not charge, use, or store the unit in a bathroom or an area exposed to water or moisture.
- Use only the provided or approved accessories.
- Ensure proper ventilation during use and charging to prevent overheating.
- Keep out of reach of children and pets.
- If the unit emits an unusual odor, generates heat, or shows any other abnormality, discontinue use immediately and contact customer support.
- Individuals with pacemakers should exercise caution when using this product.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

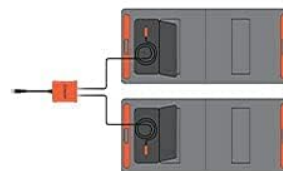
- Jackery Portable Power 1500 Unit
- AC Adapter
- Car Charger Cable
- SolarSaga Parallel Adapter (x2)
- User Manual

複数枚接続で充電時間を短縮

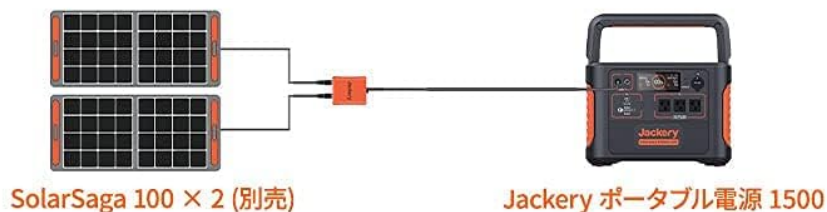
- ① SolarSaga 100の背面からDCケーブルを引き出します。



- ② DCケーブル2本をSolarSagaアダプターに接続します。



- ③ 充電時間: 約22時間→約10-16時間 (天候次第)



- ④ 充電時間: 約22時間→約5-10時間 (天候次第)

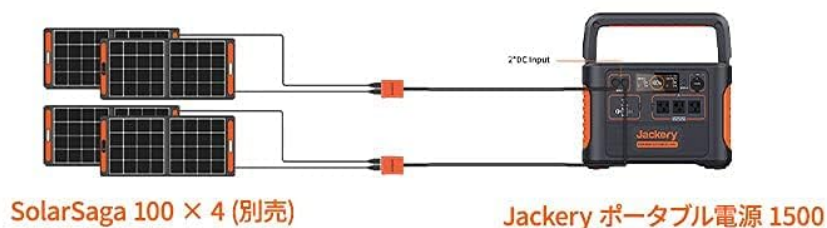


Image 3.1: Contents included with the Jackery Portable Power 1500.

4. PRODUCT OVERVIEW

Familiarize yourself with the various components and ports of your Portable Power 1500:

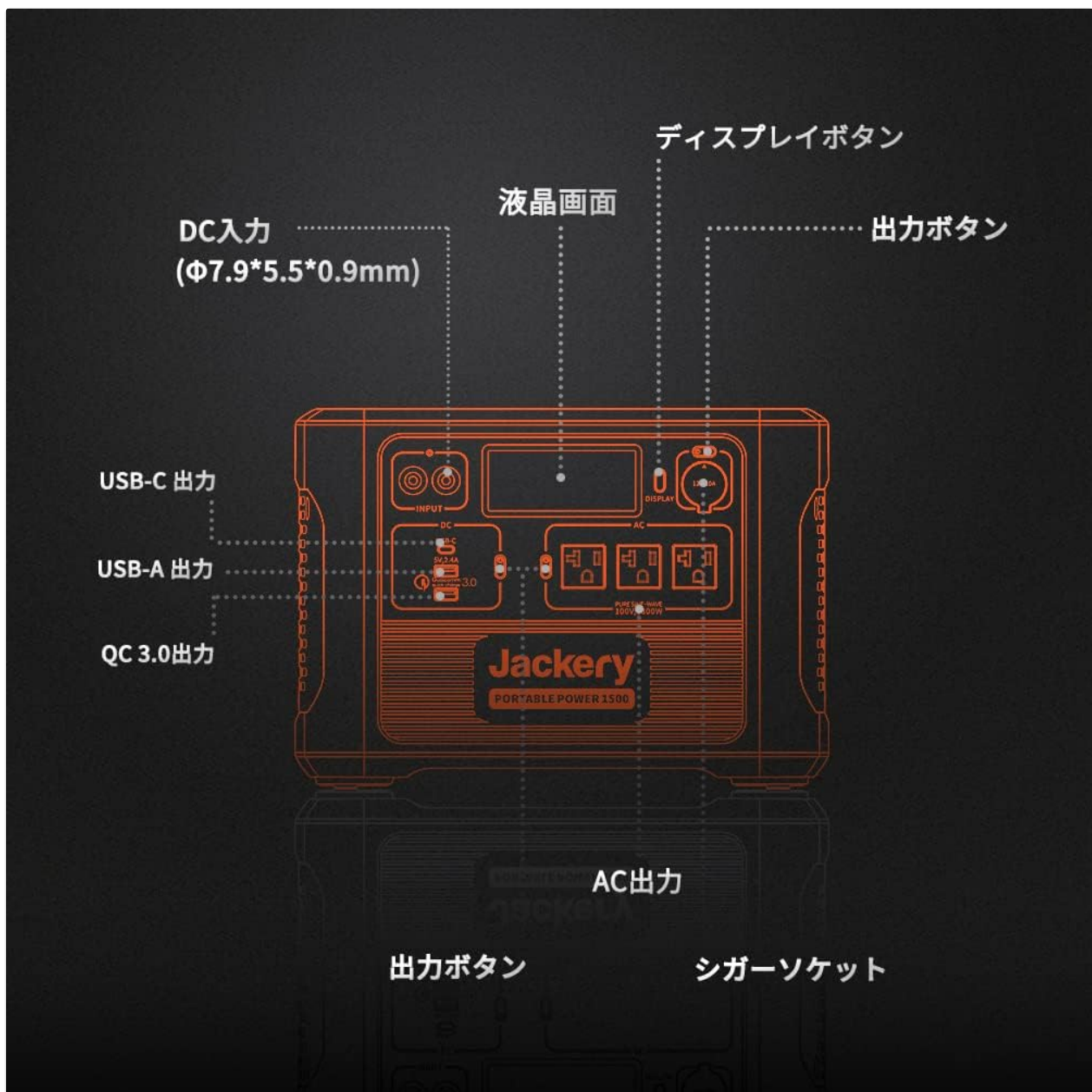


Image 4.1: Front panel layout and port identification.

- **LCD Screen:** Displays battery level, input/output wattage, and connection status.
- **Display Button:** Activates the LCD screen.
- **Output Button:** Activates AC, DC, or USB outputs.
- **DC Input:** For charging via AC adapter, car charger, or solar panels.
- **USB-C Output:** For charging USB-C compatible devices.
- **USB-A Output:** For charging USB-A compatible devices.
- **QC 3.0 Output:** Quick Charge 3.0 port for faster charging of compatible devices.
- **AC Output:** Standard AC outlets for household appliances (Pure Sine Wave, 1800W rated).
- **Cigarette Lighter Socket:** 12V DC output for car accessories.

5. SETUP

Before initial use, fully charge your Jackery Portable Power 1500. This ensures optimal battery performance and calibration.

1. Unpack the Portable Power 1500 and all accessories.

2. Connect the AC adapter to the DC Input port on the power station.
3. Plug the AC adapter into a wall outlet. The LCD screen will indicate charging status.
4. Charge the unit until the battery indicator shows 100%.

6. OPERATING INSTRUCTIONS

To use the Jackery Portable Power 1500:

1. **Turn On/Off:** Press and hold the main power button (usually located near the display) for a few seconds to turn the unit on or off.
2. **Activate Outputs:** Press the respective button (AC, DC, or USB) to activate the desired output ports. The indicator light for the activated output will illuminate.
3. **Connect Devices:** Plug your electronic devices into the appropriate output ports.
4. **Monitor Display:** The LCD screen will show the current battery level, input wattage (when charging), and output wattage (when devices are connected).
5. **Deactivate Outputs:** When finished, press the output button again to turn off the ports. This conserves battery power.



Image 6.1: The Jackery Portable Power 1500 powering multiple high-wattage devices.

The unit features a large capacity of 1534.68Wh (426,300mAh), capable of powering a smartphone approximately 140 times, a car refrigerator (60W) for about 90 hours, an electric blanket (55W) for about 20 hours, or an ice shaver (700W) for 1.8-3.8 hours. Actual usage times may vary based on device power consumption and operating conditions.



Image 6.2: Battery capacity and estimated device runtimes.

7. CHARGING METHODS

The Jackery Portable Power 1500 offers three convenient charging methods:

7.1. AC Wall Outlet (Twin Turbo System)

Utilizing the Twin Turbo system, the unit can be fully charged rapidly. One AC adapter is included; a second can be purchased separately for even faster charging.

- With 1 AC adapter: Approximately 7.5 hours for a full charge.
- With 2 AC adapters (total 500W input): Approximately 4 hours for a full charge.

7.2. Car Charger

Charge your power station using your vehicle's 12V cigarette lighter socket. Note that 24V vehicle sockets are not supported.

- Using car charger: Approximately 13 hours for a full charge.

7.3. Solar Panels (Jackery SolarSaga 100)

Harness solar energy to charge your Portable Power 1500. Charging time varies based on sunlight intensity and the number of solar panels used.

- With 1 SolarSaga 100W panel: Approximately 22 hours.
- With 2 SolarSaga 100W panels: Approximately 10-16 hours (weather dependent).
- With 4 SolarSaga 100W panels: Approximately 5-10 hours (weather dependent).



Image 7.1: Charging efficiency and estimated times for different methods.



Image 7.2: Solar panel connection configurations for faster charging.



Go Green

動作中に有害な排気ガスが発生しないため
環境に害を及ぼすことはありません
グリーンエネルギーによる、安全で
エコな電気を生み出すことができます

 グリーンエネルギー

Image 7.3: Utilizing solar panels for self-sufficient power.

8. MAINTENANCE

Proper maintenance ensures the longevity and performance of your Portable Power 1500.

- **Storage:** Store the unit in a cool, dry place away from direct sunlight and corrosive materials. For long-term storage, charge the unit to 50-80% every 3-6 months to preserve battery health.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or immerse the unit in water.
- **Temperature:** Avoid exposing the unit to extreme temperatures. While designed for use in various conditions, prolonged exposure to very hot or very cold environments can affect battery life.
- **Quiet Operation:** The unit operates quietly, typically below 55dB, ensuring minimal disturbance during use.



Image 8.1: The Jackery Portable Power 1500 operates quietly.

9. TROUBLESHOOTING

If you encounter issues with your Portable Power 1500, refer to the following common solutions:

- **Unit Not Turning On:** Ensure the battery is not completely depleted. Try connecting it to an AC outlet for charging.
- **No Output from Ports:** Verify that the specific output (AC, DC, USB) is activated by pressing its respective button. Check if the device you are trying to power exceeds the unit's maximum output wattage.
- **Slow Charging:** Ensure all charging cables are securely connected. For solar charging, confirm panels are in direct sunlight and free from obstructions.
- **Overheating Warning:** If a "High Temp" warning appears on the screen, disconnect all devices and allow the unit to cool down in a well-ventilated area.
- **Display Not Working:** Press the display button to activate the screen. If it remains unresponsive, try charging the unit.

If the problem persists after attempting these steps, please contact Jackery customer support.

10. SPECIFICATIONS

Feature	Specification
Model	Jackery Portable Power 1500 (PTB152)
Battery Capacity	1534.68Wh (426,300mAh)
Battery Type	High-Quality Lithium-ion
AC Output	100V, 60Hz, 1800W (Pure Sine Wave)
DC Output	12V, 10A (Cigarette Lighter Socket)
USB-A Output	5V, 2.4A
QC 3.0 Output	5V-6.5V/3A, 6.5V-9V/2A, 9V-12V/1.5A
USB-C Output	PD 60W
AC Input	24V, 20.83A (via AC Adapter)
Solar Input	MPPT, 12-30V, 10A (Max 500W)
Dimensions (L x W x H)	35.5 cm x 26.5 cm x 25.3 cm
Weight	Approx. 16 kg
Cycle Life	800+ cycles to 80% capacity
Operating Temperature	-10°C to 40°C (14°F to 104°F)


Feature	Specification
Management System	BMS (Battery Management System), Over Voltage Protection, Short Circuit Protection, Over Temperature Protection, etc.


The Jackery Portable Power 1500 is designed with robust features for durability and safety. It incorporates a Battery Management System (BMS), similar to those used in electric vehicles, to protect against overcharge, over-discharge, and manage temperature, ensuring reliable operation.





Image 10.1: Internal Battery Management System (BMS) for enhanced safety.

The unit is also built to withstand various environmental conditions, featuring vibration resistance, impact resistance, and reliable performance in low temperatures.

**ソーラーパネル**
(SolarSaga 100を4枚使用した場合)
5時間

**コンセント充電**
(ACコンセント×2使用した場合)
4時間

**シガーソケット**
13時間



3通りの充電方法が選べる

コンセント充電
ACコンセント×1：約7.5H ×2：約4H

太陽光充電
ソーラーパネル100W×2：約11H ×4：約5H

シガーソケット充電：約13H

Image 10.2: Durability features including vibration, impact, and low-temperature resistance.

11. WARRANTY AND SUPPORT

Jackery products typically come with a limited warranty. Please refer to the warranty card included in your package or visit the official Jackery website for detailed warranty terms and conditions specific to your region. For technical support, troubleshooting assistance, or any inquiries regarding your Jackery Portable Power 1500, please contact Jackery customer service through their official website or the contact information provided in your product documentation.

