EnginStar E100

Enginstar Portable Power Station E100 User Manual

INTRODUCTION

Welcome to the Enginstar Portable Power Station E100 user manual. This guide provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your portable power station. Please read this manual thoroughly before using the device.
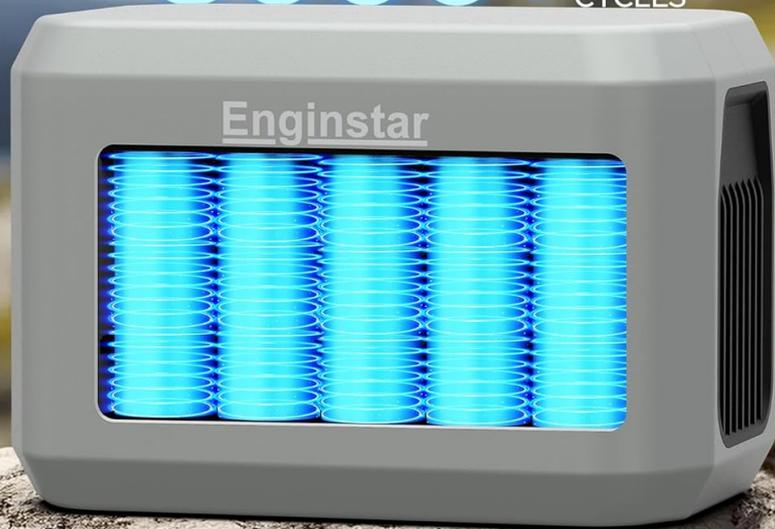
IMPORTANT SAFETY INFORMATION

- Do not disassemble, repair, or modify the unit.

- Do not place the unit near fire or expose it to high temperatures.

- Do not use or store the unit in direct sunlight or in hot environments.

- Do not use or store the unit in a bathroom or in areas exposed to water or humidity.

- Do not drop, hit, or subject the unit to strong impacts.

- Keep out of reach of children.

- Use only recommended accessories.

- Dispose of the product according to local regulations.

The E100 features multiple protection mechanisms including overvoltage, overheat, low-temp, short-circuit, overcurrent, and overcharge protection.

Image: The Enginstar E100 Portable Power Station highlighting its internal LiFePO4 battery structure and six safety protection features: Overvoltage, Overheat, Low-Temp, Short-Circuit, Overcurrent, and Overcharge Protection. This illustrates the device's robust safety design.

PACKAGE CONTENTS

Please check that all the following items are included in your package:

- Enginstar Portable Power Station E100
- 40W Solar Panel (if purchased as a bundle)
- Charging Cable (Wall Charger)
- Car Charger Cable
- 10-in-1 Connect Cable (for solar panel)
- User Manual

10 IN 1 CONNECT CABLE

Compatible with most electronic devices in the market

5 ft Long Cable

A	B	C	D	E
6.5x1.4mm	6.5x3mm	5.5x2.5mm	5.5x2.1mm	5.5x1.7mm

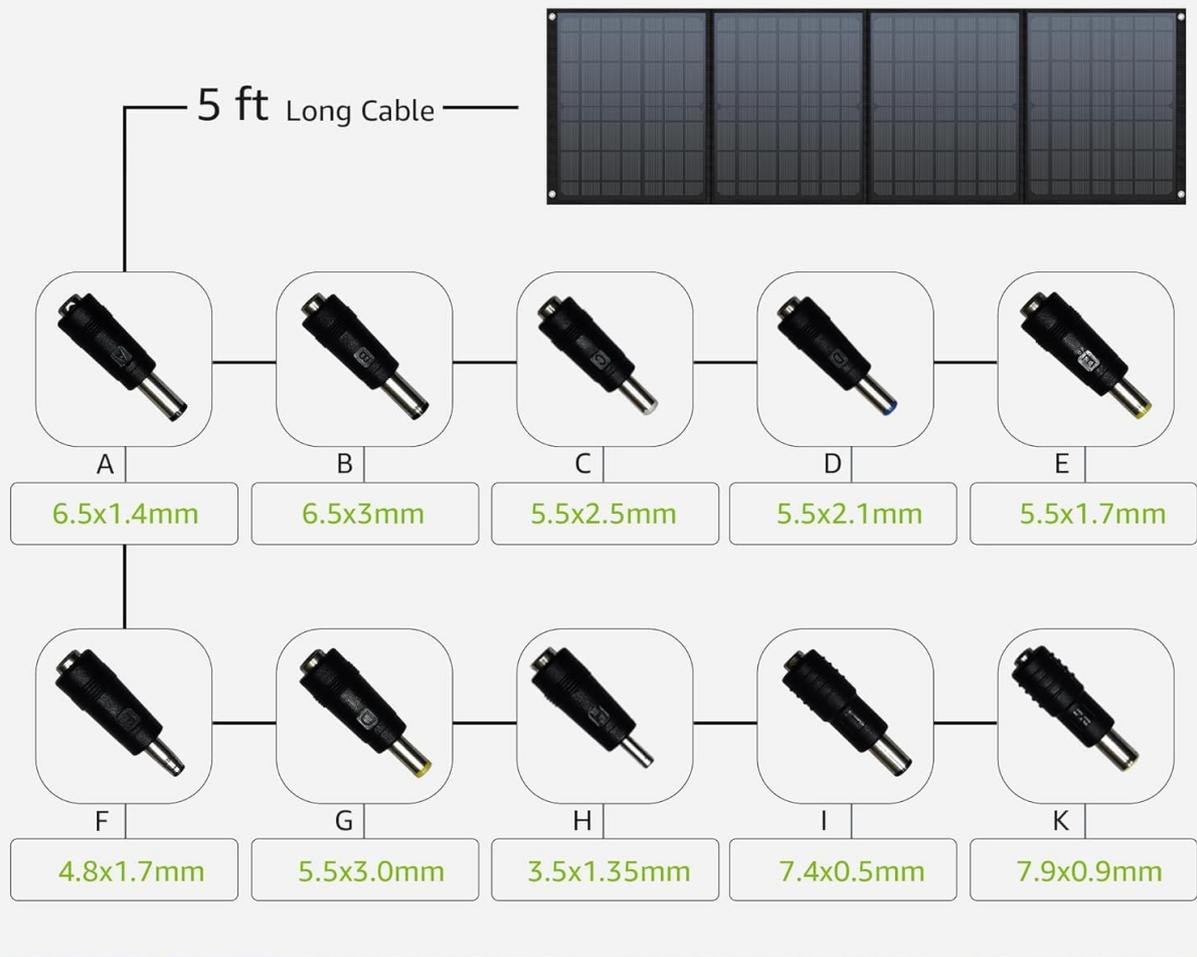| F	G	H	I	K
4.8x1.7mm	5.5x3.0mm	3.5x1.35mm	7.4x0.5mm	7.9x0.9mm

Image: A diagram illustrating the 10-in-1 connect cable, which includes various DC adapter tips (e.g., 6.5x1.4mm, 5.5x2.5mm, 3.5x1.35mm) to ensure broad compatibility with different electronic devices for charging.

LIGHTWEIGHT & COMPACT 40W SOLAR PANEL BAG

- Foldable
- Compact design
- Light weight

Weight 3.3 lb/ 1.5 kg
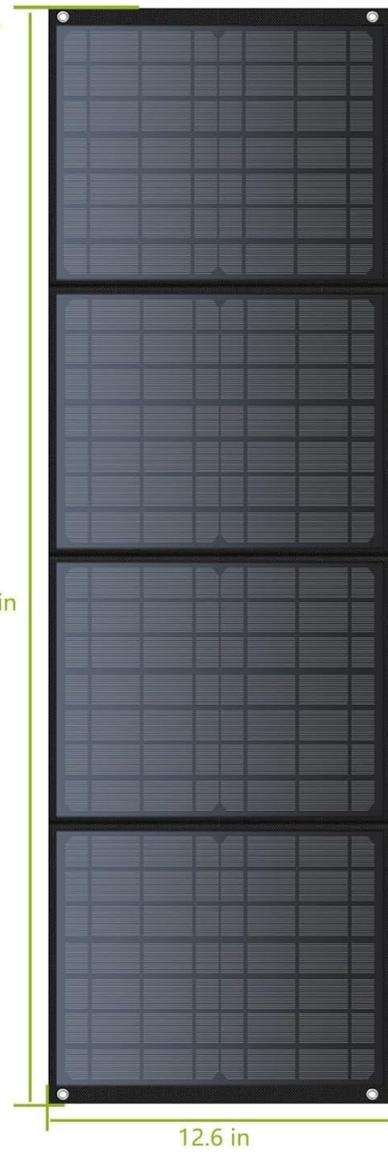
9.1 in

12.6 in

2 in

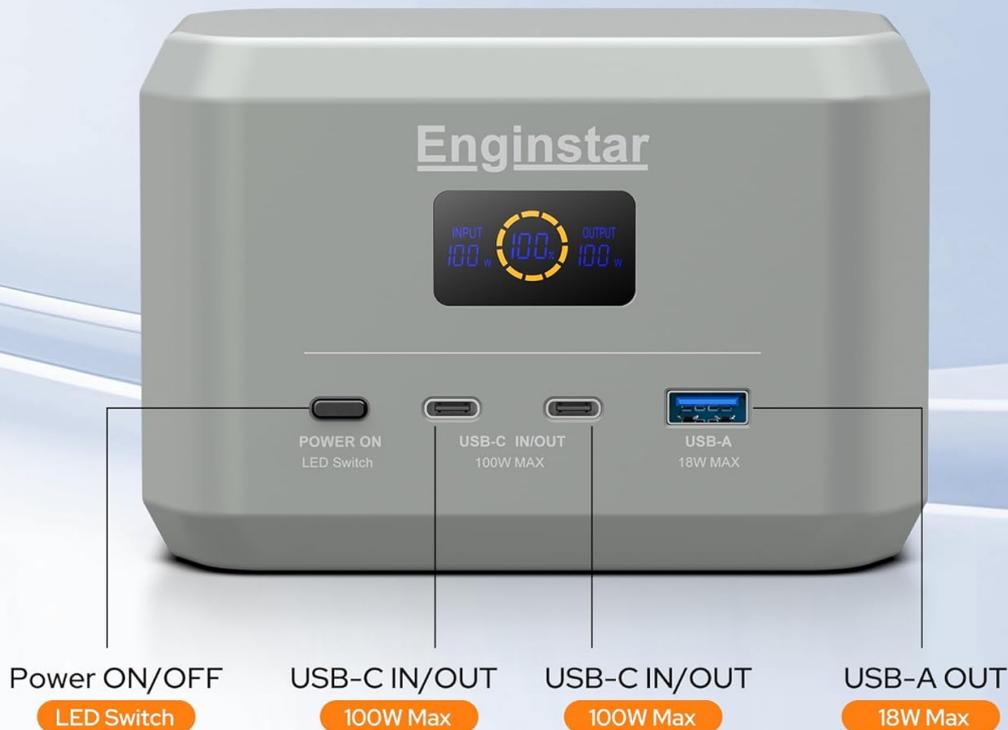37.8 in

12.6 in

Image: A visual representation of the lightweight and compact 40W foldable solar panel bag, showing its dimensions (12.6 in x 9.1 in x 2 in folded, 12.6 in x 37.8 in unfolded) and weight (3.3 lb / 1.5 kg). This panel is designed for portability and easy storage.

PRODUCT FEATURES AND COMPONENTS

The Enginstar E100 Portable Power Station is designed for versatile power needs.

100W TWO-WAY FAST CHARGING

96Wh 31,000mAh 3.2V

Enginstar

INPUT **100** w **100**% OUTPUT **100** w

POWER ON	USB-C IN/OUT	USB-A
LED Switch	100W MAX	18W MAX

Power ON/OFF	USB-C IN/OUT	USB-C IN/OUT	USB-A OUT
LED Switch	100W Max	100W Max	18W Max

Remark: Long Press the Button to Turn on or Turn Off the LED Light.
Short Press the Button to Switch the LED Light Mode.

Image: A detailed front view of the Enginstar E100 Portable Power Station, labeling its key components: Power ON/OFF LED Switch, two USB-C IN/OUT ports (100W Max each), and one USB-A OUT port (18W Max). The display shows input and output power percentages.

- **Power ON/OFF LED Switch:** Controls the unit's power and LED light functions.

- **USB-C IN/OUT (100W Max):** Two bidirectional USB-C ports for both charging the power station and charging external devices.

- **USB-A OUT (18W Max):** Standard USB-A port for charging compatible devices.

- **Display Screen:** Shows battery level, input, and output status.

- **Built-in LED Light:** Provides illumination with multiple modes.

- **Hanging Rope:** For easy carrying and attachment to bags.

ULTRA PORTABLE DESIGN

Pick Up by the TYPE-C Handle

Tuck Into Your Bag

Image: The Enginstar E100 Portable Power Station showcasing its ultra-portable design, being held by its integrated handle and easily fitting into a bag, emphasizing its convenience for travel and outdoor use.

SETUP

1. **Unpack:** Carefully remove the power station and all accessories from the packaging.

2. **Initial Charge:** Before first use, fully charge the power station. Connect the provided wall charger to the USB-C IN/OUT port and plug it into a wall outlet. The display will indicate charging status.

3. **Solar Panel Connection (Optional):** If using the 40W solar panel, unfold it and connect it to the power station using the appropriate cable and adapter from the 10-in-1 connect cable set. Position the solar panel in direct sunlight for optimal charging.

Image: The Enginstar E100 Portable Power Station connected to a solar panel for charging, demonstrating its DC and QC3.0 USB output ports. A smartphone is shown charging from the power station, illustrating its capability to recharge devices directly.

OPERATING INSTRUCTIONS

Powering On/Off

To power on the unit, long press the Power ON/OFF LED Switch. The display screen will illuminate. To power off, long press the same switch again.

Charging the Power Station

The E100 supports three charging methods:

- **Wall Charging:** Connect the wall charger to a USB-C IN/OUT port and a standard AC outlet. The unit can charge from 0-70% in approximately 1 hour and fully charge in 2 hours when connected to a 100W source.

- **Solar Charging:** Connect a compatible solar panel (e.g., the Enginstar 40W solar panel) to a USB-C IN/OUT port or the DC input (if available via adapter). Ensure the solar panel is positioned for maximum sunlight exposure.

- **Car Charging:** Use the car charger cable to connect the power station to your vehicle's 12V auxiliary power outlet.

Charging External Devices

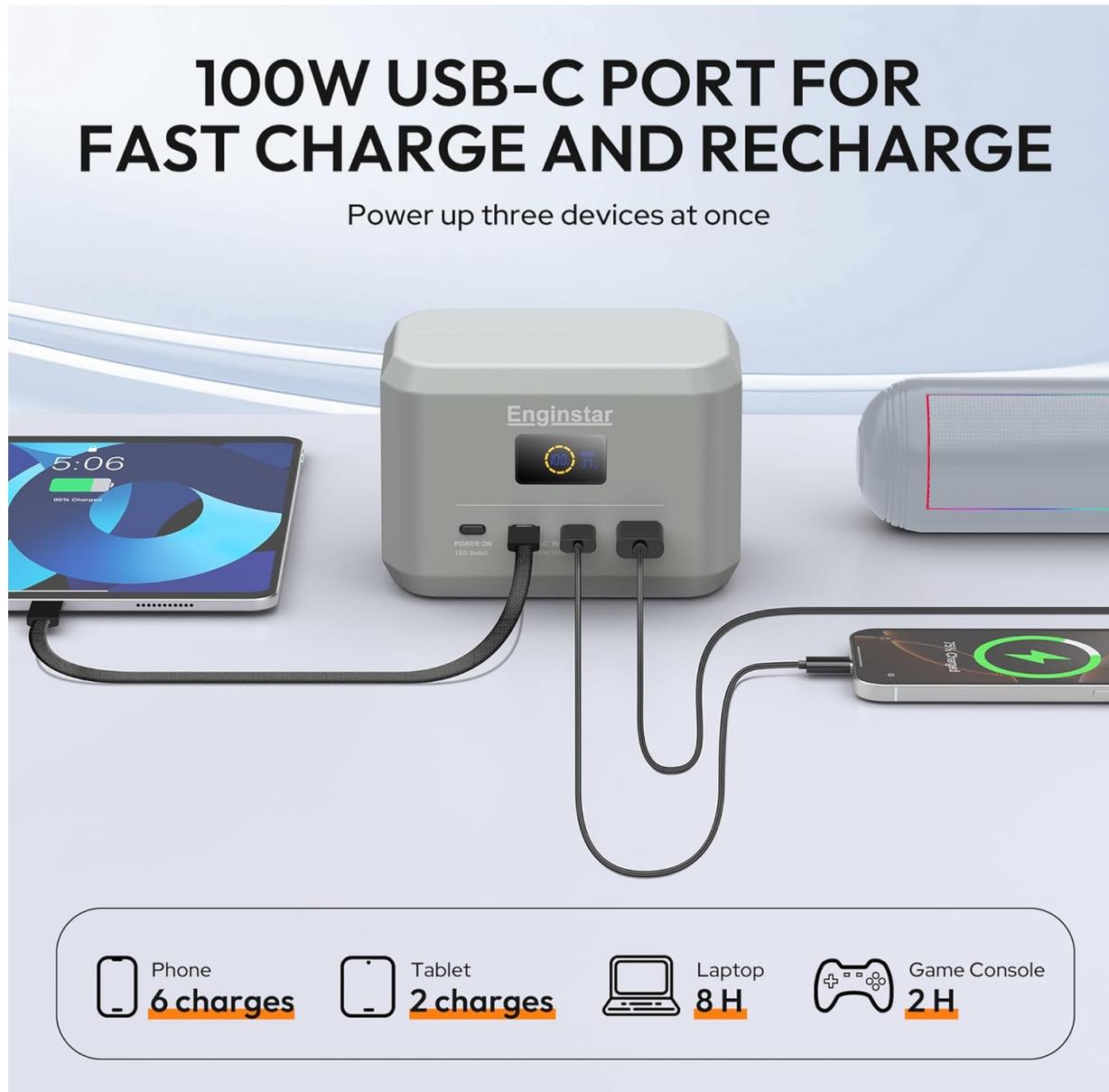The E100 can charge multiple devices simultaneously.

Image: The Enginstar E100 Portable Power Station actively charging three devices: a tablet, a smartphone, and a laptop. This demonstrates its capability to power multiple electronics concurrently using its USB-C and USB-A output ports.

- **USB-C Output:** Connect your device's USB-C cable to one of the two USB-C IN/OUT ports. These ports provide up to 100W output.
- **USB-A Output:** Connect your device's USB-A cable to the USB-A OUT port. This port provides up to 18W output.

LED Light Operation

The built-in LED light has multiple modes:

- **To turn on/off the LED light:** Short press the Power ON/OFF LED Switch.
- **To switch modes:** Short press the Power ON/OFF LED Switch repeatedly to cycle through Lighting, Soft Light, and Strobe (SOS) modes.

Image: The Enginstar E100 Portable Power Station showcasing its versatile LED lighting features. The image displays three distinct modes: standard Lighting, a softer Soft Light, and an emergency Strobes (SOS) mode, suitable for various situations from camping to power outages.

MAINTENANCE

- **Cleaning:** Use a dry, soft cloth to wipe the exterior of the unit. Do not use abrasive cleaners or solvents.

- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures. For long-term storage, charge the unit to approximately 50-80% every 3-6 months to preserve battery health.

- **Battery Life:** The LiFePO4 battery is designed for long-term reliability, maintaining 80% capacity after an impressive 3500 charge cycles.

TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Unit does not power on	Battery is depleted	Charge the power station using a wall charger or solar panel.
Device not charging	Cable issue, device not compatible, or power station output off	Ensure cables are securely connected. Verify device compatibility. Check if the power station is on and has sufficient charge.
Slow charging	Low input power, cable quality, or environmental factors	Use a higher wattage charger/solar panel. Ensure good quality cables. Avoid extreme temperatures.
LED light not working	Unit off or light mode not selected	Ensure the unit is powered on. Short press the LED switch to cycle through light modes.

SPECIFICATIONS

Model:	E100
Battery Type:	LiFePO4
Capacity:	99Wh (30000mAh, 3.2V)
Output Power:	128W (Max)
USB-C IN/OUT:	2 x 100W Max (Two-Way Fast Charging)
USB-A OUT:	1 x 18W Max
Charging Time (0-70%):	1 hour (with 100W input)
Charging Time (0-100%):	2 hours (with 100W input)
Solar Panel (Optional):	40W Foldable Solar Panel
Dimensions (Power Station):	Refer to product images for visual scale (Palm Sized)
Weight (Power Station):	Refer to product images for visual scale
LED Light Modes:	Lighting, Soft Light, Strobe (SOS)

WARRANTY AND SUPPORT

Enginstar products come with a standard warranty. For detailed warranty information, product support, or technical assistance, please refer to the warranty card included in your package or visit the official Enginstar website.

For customer service inquiries, please contact:

- **Email:** support@enginstar.com
- **Website:** EnginStar Store on Amazon