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VEVOR Portable Power Station, 296Wh

VEVOR Portable Power Station User Manual

Model: Portable Power Station, 296Wh

Brand: VEVOR

Introduction

This manual provides essential information for the safe and efficient operation of your VEVOR Portable Power Station. This device is a versatile 296Wh (20Ah/14.8V) lithium-ion battery solar-powered generator, offering 300W (Peak Power 600W) pure sine wave AC output, USB QC3.0, and an LED light. It is designed for various applications including outdoor camping, travel, and home emergencies, providing a reliable backup power source.



Image: The VEVOR Portable Power Station shown with its included accessories: AC power adapter, AC power cord, and car cigarette cable.

Important Safety Information

Please read and understand all safety instructions before operating this product. Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

- **CAUTION:** Do not attempt to disassemble or damage the internal battery. See instruction manual for service.
- Do not smoke, strike, or cause a spark in the vicinity of the power pack.
- Do not expose the power station to rain or moisture.
- Risk of electric shock. Connect only to properly grounded outlets.
- Do not operate if the unit or the power cables are damaged in any way.
- Keep away from moisture or water. Do not use outdoors on rainy days.



Image: Visual representation of the six safety protections: Over-Current, Over-Voltage, Over-Load, Short Circuit, Low-Voltage, and Over-Temperature Protection. The image also highlights ETL, FCC, CE, PSE, IC, UKCA certifications.

Product Overview and Components

The VEVOR Portable Power Station features multiple input and output ports to accommodate a wide range of devices. Familiarize yourself with the layout and functions of each component.



Image: Detailed diagram illustrating the front panel of the power station, labeling its 9 output ports and control buttons. These include USB ON/OFF, Power ON/OFF, DC ON/OFF, LCD Display, Type-C PD100W, Type-C PD27W, 2 x QC3.0 (24W) USB-A ports, DC Charging Port (12V-24V Input), AC ON/OFF, 2 x AC Output (300W Max), Cigarette Lighter, and DC Charging Port (Output).

Key Components:

- **LCD Display:** Shows battery level, input/output wattage, and remaining usage time.
- **Power ON/OFF Button:** Activates/deactivates the main unit.
- **USB Output Ports:** Includes Type-C PD100W, Type-C PD27W, and two QC3.0 (24W) USB-A ports for fast charging various devices.
- **AC Output Ports:** Two pure sine wave AC outlets (300W Max) for powering household appliances.
- **DC Output Ports:** Includes a cigarette lighter port and two DC5521 ports (12.8-16.5V/10A Total Max).
- **Input Ports:** Dedicated ports for AC adapter, car charger, and solar panel input.
- **LED Light:** Multi-mode LED strip for illumination (3 levels + SOS + Strobe).

Setup

Unpacking and Initial Inspection:

Upon receiving your VEVOR Portable Power Station, carefully unpack all components and inspect for any signs of damage. The package content should include:

- 1 x Portable Power Station
- 1 x 19V/3A AC Power Adapter
- 1 x AC Power Cord
- 1 x Car Cigarette Cable
- 1 x User Manual (this document)

Initial Charging:

It is recommended to fully charge the power station before first use to optimize battery performance and lifespan. Use the provided AC power adapter for the fastest initial charge.

1. Connect the AC power adapter to the "Input DC12-24V" port on the power station.
2. Plug the AC power cord into the adapter and then into a standard wall outlet.
3. The LCD display will show charging status and battery percentage.

Operating Instructions

Powering On/Off:

- To turn on the main unit, press and hold the "POWER ON/OFF" button until the LCD screen illuminates.
- To turn off the main unit, press and hold the "POWER ON/OFF" button again until the LCD screen turns off.

Using Output Ports:

- **USB Ports:** Press the "USB ON/OFF" button to activate the USB-A and USB-C ports. Connect your devices using appropriate cables. Press again to turn off.
- **AC Outlets:** Press the "AC ON/OFF" button to activate the AC outlets. Plug in your AC-powered devices. Ensure the total wattage does not exceed 300W. Press again to turn off.
- **DC Ports (Cigarette Lighter & DC5521):** Press the "DC ON/OFF" button to activate the DC output ports. Connect your 12V DC devices. Press again to turn off.

Recharging the Power Station:

The power station can be recharged using multiple methods:

- **AC Wall Charging:** Connect the provided AC adapter and power cord to a wall outlet. Full charge in approximately 7 hours.
- **AC Wall Charging + Type-C (PD100W) Simultaneous Charging:** For faster charging, use both the AC adapter and a PD100W Type-C charger simultaneously. Full charge in approximately 3.5 hours.
- **Car Charging:** Use the provided car cigarette cable to charge from your vehicle's 12V cigarette lighter port. Full charge in approximately 4.3 hours.
- **Solar Panel Charging:** Connect a compatible 12V-24V/7A Max solar panel (not included) to the "Input DC12-24V" port. Full charge with a 120W solar panel in approximately 4 hours (actual time varies with sunlight intensity).



Image: Illustration detailing the four charging methods for the power station: AC Wall Charging + Type-C (PD100W) (≤ 3.5 Hours), AC Wall Charging (≤ 7 Hours), DC12V Car Charging (≤ 4.3 Hours), and 120W Solar Panel Charging (≤ 4 Hours, solar panel not included).

LED Light Operation:

- Press the LED light button (usually located near the light strip) to cycle through brightness levels (Low, Medium, High).
- Press and hold the button to activate SOS mode.
- Press again to activate Strobe mode.
- Press once more to turn off the LED light.

Maintenance

- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures (0°C to 40°C / 32°F to 104°F).
- **Battery Care:** For optimal battery health, fully charge the unit every 3-6 months, even if not in use. Avoid completely draining the battery for extended periods.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the power station. Do not use abrasive cleaners or immerse the unit

in water.

- **Ventilation:** Ensure the ventilation openings are clear and unobstructed during operation to prevent overheating.

Troubleshooting

Problem	Possible Cause	Solution
Unit does not turn on.	Battery is completely drained; Power button not pressed long enough.	Charge the unit using an AC adapter. Press and hold the power button for 3-5 seconds.
AC output not working.	AC output not activated; Overload protection triggered; Device wattage too high.	Press the "AC ON/OFF" button. Reduce the load. Ensure device wattage is below 300W.
USB ports not charging.	USB output not activated; Cable issue.	Press the "USB ON/OFF" button. Try a different USB cable or port.
Unit not charging from solar panel.	Insufficient sunlight; Solar panel not compatible; Cable connection issue.	Ensure direct sunlight. Verify solar panel specifications (12V-24V/7A Max). Check all cable connections.
LCD display shows error code.	Internal fault or protection triggered.	Refer to the specific error code in a more detailed manual (if available) or contact VEVOR customer support. Try restarting the unit.

Specifications

Detailed technical specifications for the VEVOR Portable Power Station.



Image: Visual representation of the power station's dimensions (9.06 x 5.51 x 6.65 inches / 23 x 14 x 16.9 cm) and a summary of key specifications including Battery Capacity, Battery Type, AC Input Charging, Car/Solar Input Charging, Battery Charge Cycle, and Certifications.

Feature	Detail
Model	296WHBJCNDY
Battery Capacity	296Wh (20Ah/14.8V)
Battery Type	Lithium-ion Battery (2900mAh single cell)
AC Input Charging	AC100-240V to 19V/3A
Car Input Charging	DC12V-24V/7A Max
Solar Input Charging	DC12V-24V/7A Max
USB-C Charging	PD100W Max (5V 5A & 9V 5A & 12V 5A & 15V 5A & 20V 5A, PD3.0)

Feature	Detail
USB-C2	PD27W Max (5V 3A & 9V 3A & 12V 2.25A, PD3.0)
USB-A1/A2	QC24W Max (5V 3A & 9V 2A & 12V 2A, QC3.0)
DC Output	1 x Cigarette Lighter; 2 x DC5521 Rated Output 12.8-16.5V/10A (Total 10A Max)
AC Output Waveform	Pure Sine Wave
AC Output Power	300W MAX (Peak 600W)
AC Output Voltage & Frequency	110V±10%, 60 Hz±5%; 230V±10%, 50 Hz±5%
Battery Charge Cycle	≥1000 times, DOD≥80%
Efficiency	85%
LED Light	2W Max, 3 Levels (L/M/H) + SOS + Strobe
Safety Protection	Short-Circuit / Over-Current / Over-Voltage / Low-Voltage / Over-Load / Over-Temperature Protection
Operating Temperature	0℃ to 40℃ / 32℉ to 104℉
Pass-Through Charging	Support
Main Material	ABS & PC (Grade: AC3100, Fire Rating: V0)
Item Dimensions (L x W x H)	9.06 x 5.51 x 6.65 in / 23 x 14 x 16.9 cm
Net Weight	7.05 lbs / 3.2 kg
Certifications	ETL, FCC, CE, IC, PSE, UKCA, ROHS

Warranty and Support

This product comes with a user manual that provides detailed instructions for operation and maintenance. For specific warranty information, please refer to the documentation included with your purchase or visit the official VEVOR website. For technical support or service inquiries, please contact VEVOR customer service through their official channels.
Note: Specific warranty terms and support contact details may vary by region and purchase location. Always refer to the most current information provided by VEVOR.

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