

Volcan Energon 300

Volcan Energon 300 Portable Power Station User Manual

Brand: Volcan | Model: Energon 300

1. INTRODUCTION

The Volcan Energon 300 is a portable power station designed to provide reliable power for various applications, including camping, RVs, home use, and emergency backup. Featuring a 299Wh (100800mAh) LiFePO4 battery, it offers a 300W pure sine wave AC output (600W peak) and multiple DC and USB ports to charge and power up to 7 devices simultaneously. Its compact and lightweight design ensures easy portability, while advanced safety features protect both the device and connected electronics.



Image 1.1: Volcan Energon 300 Portable Power Station - Front View

2. WHAT'S IN THE BOX

Upon unboxing your Volcan Energon 300 Portable Power Station, please ensure all the following items are present:

- ENERAGON 300 Portable Power Station
- AC Charging Cable
- AC Adapter
- Car Charging Cable
- User Manual



Image 2.1: Package Contents of the Energon 300

3. PRODUCT FEATURES

3.1 Output Ports

- **1 x AC 300W Pure Sine Wave Outlet (Max 600W, 110V/60Hz):**For standard household appliances.
- **1 x USB-C (Bi-Directional) 3A 60W:** For fast charging compatible devices and recharging the power station.
- **1 x USB-C (Unidirectional) 18W:** For charging compatible devices.

- **2 x USB-A QC 18W:** For Quick Charge compatible devices.
- **2 x DC5521 12V/10A 120W Max:** For DC-powered devices.

POWER YOUR ESSENTIALS

Running on Multiple Devices

292 Wh
CAPACITY

300 Watts
OUTPUT POWER



2.5 Hours
TV
(120W)



60 Hours
Light
(5W)



5 Times
Laptop
(56W)



2.5 Hours
Game Console
(120W)

Image 3.1: Detailed view of the Energon 300's output ports

3.2 Battery Technology

The Energon 300 utilizes advanced LiFePO₄ (Lithium Iron Phosphate) battery technology, offering over 3000 recharge cycles with battery capacity remaining above 70%. This ensures nearly a decade of consistent use. It also features a Smart Battery Management System (BMS) for optimized performance and safety.



Image 3.2: LiFePO4 Battery System and Smart BMS

3.3 Pure Sine Wave AC Output

The AC output is a pure sine wave, which is crucial for powering sensitive electronics without causing damage or malfunction, unlike modified sine wave inverters.

3.4 Compact & Portable Design

With dimensions of 9.57"L x 4.09"W x 7.09"H and a weight of 12.43 pounds, the Energon 300 is designed for easy portability, making it ideal for travel and outdoor activities.

EASY TO CARRY

Lightweight | 7.9 lbs



Image 3.3: Easy to Carry Design

3.5 Safety Protections

The unit incorporates multiple safety features:

- Over Charge Protection
- Over-load Protection
- Over Current Protection
- Short Circuit Protection

- Auto Fan Speed for cooling
- High Temperature Protection
- Low Temperature Protection
- ECO Power Save mode



Image 3.4: Comprehensive Device Protections

3.6 LED Display

A clear LED display shows the remaining battery percentage and the current wattage being drawn by connected devices.

3.7 Integrated LED Light

The unit includes a side LED light with multiple modes for various situations:

- Low Brightness
- High Brightness

- Flashing (SOS)

4. SETUP

Before initial use, it is recommended to fully charge your Volcan Energon 300 Portable Power Station. Refer to the 'Charging Methods' section for detailed instructions.

1. Unpack all components from the box.
2. Place the power station on a stable, flat surface.
3. Connect the appropriate charging cable (AC, USB-C, Car, or Solar) to the DC-IN port or USB-C (Bi-Directional) port on the unit.
4. Connect the other end of the charging cable to its power source.
5. The LED display will indicate charging status.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

To power on the unit, press and hold the main power button (usually labeled 'POWER') for a few seconds until the LED display illuminates. To power off, press and hold the same button until the display turns off.

5.2 Activating Output Ports

- **AC Output:** Locate the AC output button (usually labeled 'AC-OUT') on the side of the unit. Press this button to activate the AC outlet. An indicator light on the button or display will confirm activation.
- **DC/USB Outputs:** The DC and USB ports are typically active once the main unit is powered on. Some models may have a dedicated 'POWER DC' button to activate these circuits. Refer to the display for active output indicators.

5.3 LED Display Usage

The LED display provides real-time information:

- **Battery Level:** Shows the remaining battery charge as a percentage and a bar graph.
- **Output Wattage:** Displays the total power (in watts) currently being drawn by all connected devices.
- **Input Wattage:** Shows the power (in watts) being received during charging.

5.4 Power Save Mode (ECO Mode)

To conserve battery power, the unit features an ECO mode. When activated (via the 'POWER SAVE' button), the AC output will automatically shut off after 2 hours if the power draw is below a certain threshold. If ECO mode is off, the AC output will shut off after 8 hours under low load. This feature helps prevent unnecessary battery drain.

5.5 Integrated LED Light

To activate the LED light, press the 'LED' button. Subsequent presses will cycle through different brightness levels and modes (low, high, flashing, SOS). Press and hold to turn off the LED light.

6. CHARGING METHODS

The Volcan Energon 300 offers versatile charging options:

6.1 AC Wall Outlet Charging

Connect the AC charging cable to the AC adapter, then plug the adapter into the DC-IN port on the power station. Plug the AC charging cable into a standard wall outlet. The unit will fully recharge in approximately 3 hours.

6.2 USB-C Charging

Connect a compatible USB-C charger (not included) to the bi-directional USB-C port on the power station. The unit will fully recharge in approximately 5 hours.

6.3 AC + USB-C Dual Input Charging

For the fastest charging, combine the AC wall outlet method with a USB-C charger connected to the bi-directional USB-C port. This dual input method can fully recharge the power station in just 1.8 hours.

SUPPLY 7 OUTPUT PORTS



AC-OUTLET



USB-C PD 60W



USB-C 18W



USB-A 3.0 *2



DC-OUTPUT *2



18 Times
Switch
(16Wh)



24 Times
Phone
(12.4Wh)



12 Times
Drone
(23Wh)



10 Times
Camera
(28Wh)



30 Hours
Fan
(10W)

Image 6.1: Dual Input Charging (AC + USB-C)

6.4 Solar Panel Charging

Connect a compatible solar panel (up to 200W, not included) to the DC-IN port on the power station. The unit supports fast solar charging and can be fully recharged in as fast as 1.5 hours under optimal sunlight conditions with a 200W solar panel.

6.5 Car Charging

Connect the included car charging cable to the DC-IN port on the power station and plug the other end into your

vehicle's 12V car outlet.

Your browser does not support the video tag.

Video 6.1: Overview of Volcan Energon Portable Power Station features and charging methods.

7. SAFETY INFORMATION

To ensure safe operation and prolong the lifespan of your power station, please adhere to the following guidelines:

- Do not disassemble, repair, or modify the unit.
- Keep the unit away from fire, water, and extreme temperatures.
- Avoid dropping, puncturing, or exposing the unit to severe impacts.
- Use only original or certified compatible charging cables and adapters.
- Ensure proper ventilation during use and charging to prevent overheating.
- Keep out of reach of children.

8. MAINTENANCE

Proper maintenance helps ensure the longevity and performance of your Energon 300:

- **Storage:** If storing the unit for an extended period, charge it to approximately 50-80% every 3-6 months to maintain battery health. Store in a cool, dry place away from direct sunlight.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use liquid cleaners or immerse the unit in water.
- **Ventilation:** Ensure the ventilation vents are clear of dust and debris to allow for proper airflow.

9. TROUBLESHOOTING

If you encounter issues with your Volcan Energon 300, please refer to these common troubleshooting steps:

- **Unit Not Turning On:** Ensure the battery is charged. Connect to an AC outlet to check if it powers on.
- **Devices Not Charging:** Verify that the specific output ports (AC, DC, USB) are activated. Check the LED display for any error indicators. Ensure the connected device is functioning correctly and its cable is securely plugged in.
- **Slow Charging:** Confirm that the power source (wall outlet, solar panel, car charger) is providing adequate power. For faster charging, use the AC + USB-C dual input method.
- **Overheating:** If the unit feels excessively hot, ensure it is in a well-ventilated area and the cooling fan is not obstructed. The unit has built-in temperature protection and may temporarily shut down to prevent damage.

10. SPECIFICATIONS

Feature	Specification
Brand	Volcan
Model Name	Energon 300
Battery Type	LiFePO4 Battery

Battery Capacity	299Wh (100800mAh)
Output Wattage (Running)	300 Watts
Output Wattage (Peak/Starting)	600 Watts
AC Output	110V/60Hz Pure Sine Wave
USB-C (Bi-Directional)	3A 60W
USB-C (Unidirectional)	18W
USB-A QC	2 x 18W
DC5521 Output	2 x 12V/10A (120W Max)
DC Input (Charging)	11V-25V
Solar Input	Up to 200W
Lifecycles	3000+ cycles (to 70% capacity)
Product Dimensions	9.57"L x 4.09"W x 7.09"H
Item Weight	12.43 pounds

11. WARRANTY & SUPPORT

Your Volcan Energon 300 Portable Power Station comes with a**24-month warranty**. For any inquiries regarding returns, refunds, warranty service, or technical assistance, please contact our customer support team. We offer **24/7 hour customer support** to ensure your peace of mind.

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