

Volcan EnerGon 700

Volcan EnerGon 700 Portable Power Station User Manual

Model: EnerGon 700

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1. INTRODUCTION

The Volcan EnerGon 700 Portable Power Station is a versatile power solution designed for various applications, including home backup, RV camping, and road trips. It features a 512Wh LiFePO4 battery, providing a continuous output of 700W and a peak output of 1400W. This manual provides essential information for the safe and efficient use of your power station.



Image: The Volcan EnerGon 700 Portable Power Station, showcasing its compact design and display panel.

Key Features:

- **High Capacity & Output:** 512Wh LiFePO4 battery with 700W continuous output (1400W peak).
- **Long Lifespan:** LiFePO4 battery offers over 4000 charge cycles.
- **Rapid Charging:** Achieves 80% charge in approximately 50 minutes.
- **Advanced Technology:** Equipped with SiC-Vigor Tech for improved efficiency and heat dissipation.
- **Safety Features:** Includes Lightning Strike & Surge Protection.
- **Uninterruptible Power Supply (UPS):** Features a 15ms ultra-fast backup switchover.
- **Multiple Charging Options:** Supports AC, car, and solar charging.
- **Portable Design:** Weighs 13.3 lbs with dimensions of 10.9 x 7 x 8 inches.

Image: The Volcan EnerGon 700 highlighting its compact dimensions (10.9in x 7in x 8in) and weight (13.3lbs), emphasizing its portability.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the Volcan EnerGon 700 Portable Power Station. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit.
- Do not expose the unit to fire or direct heat sources.
- Avoid exposure to water, rain, or high humidity.
- Do not use or store the unit in direct sunlight or high temperatures.
- Keep out of reach of children and pets.
- Ensure proper ventilation during use and charging.
- Do not insert foreign objects into the ports.
- Use only approved accessories and charging cables.
- In case of fire, use a dry powder fire extinguisher.
- The unit features Lightning Strike & Surge Protection. However, avoid using during severe thunderstorms.



Image: The Volcan EnerGon 700 illustrating its lightning strike and surge protection feature, suitable for use during power outages.

3. PRODUCT OVERVIEW

Familiarize yourself with the components and ports of your Volcan EnerGon 700 Portable Power Station.

Front Panel:

- **LCD Display:** Shows battery level, input/output power, and status indicators.
- **DC Input Port:** For charging the power station via AC adapter, car charger, or solar panel.
- **USB-A Output Ports:** For charging USB-powered devices.
- **USB-C Output Port:** For charging USB-C powered devices.

- **DC Output Ports (12V):** For powering 12V DC devices.
- **Car Socket Output:** For powering 12V car appliances.
- **Power Button:** To turn the unit on/off.
- **AC Output Button:** To enable/disable AC output.
- **DC Output Button:** To enable/disable DC output.

Rear Panel:

- **AC Output Sockets:** For powering AC appliances.
- **Cooling Vents:** Ensures proper heat dissipation.



Image: A detailed view of the Volcan EnerGon 700's front panel, showing the LCD display, DC input, USB ports, and control buttons.

4. SETUP

Before first use, ensure the power station is fully charged. Unpack all components and inspect for any damage.

Package Contents:

- Volcan EnerGon 700 Portable Power Station
- AC Charging Cable
- Car Charging Cable
- User Manual
- (Optional) Solar Charging Cable (sold separately)

Initial Charge:

It is recommended to fully charge the power station before its first use to optimize battery performance.

1. Connect the AC charging cable to the DC Input port on the power station.
2. Plug the other end of the AC charging cable into a standard wall outlet.
3. The LCD display will indicate charging status.
4. Once fully charged, disconnect the charging cable.

5. CHARGING THE POWER STATION

The Volcan EnerGon 700 supports three charging methods: AC wall outlet, car charger, and solar panels.



Image: The Volcan EnerGon 700 illustrating its three charging methods: AC wall charging, car charging, and solar panel charging, highlighting its 1-hour full charge capability.

5.1. AC Wall Charging

Connect the provided AC charging cable to the DC Input port and then to a wall outlet. The power station can be fully charged in approximately 1 hour.

5.2. Car Charging

Use the provided car charging cable. Connect one end to the DC Input port on the power station and the other end to your vehicle's 12V cigarette lighter socket.

5.3. Solar Charging

The EnerGon 700 can be recharged using compatible solar panels (sold separately). Connect the solar panel to the DC Input port using an appropriate solar charging cable. Optimal charging speed depends on sunlight intensity and panel wattage. It can fully recharge off-grid with solar panels in as fast as 2.5 hours.



Image: The Volcan EnerGon 700 being recharged by solar panels in an outdoor setting, demonstrating its off-grid charging capability.

6. OPERATING THE POWER STATION

To use the power station, press the main power button to turn it on. The LCD display will illuminate.

6.1. Using AC Output

1. Press the AC Output button to enable the AC outlets.
2. Plug your AC appliance into one of the AC output sockets.
3. Ensure the appliance's power consumption does not exceed 700W (1400W peak).
4. Press the AC Output button again to disable AC output when not in use.

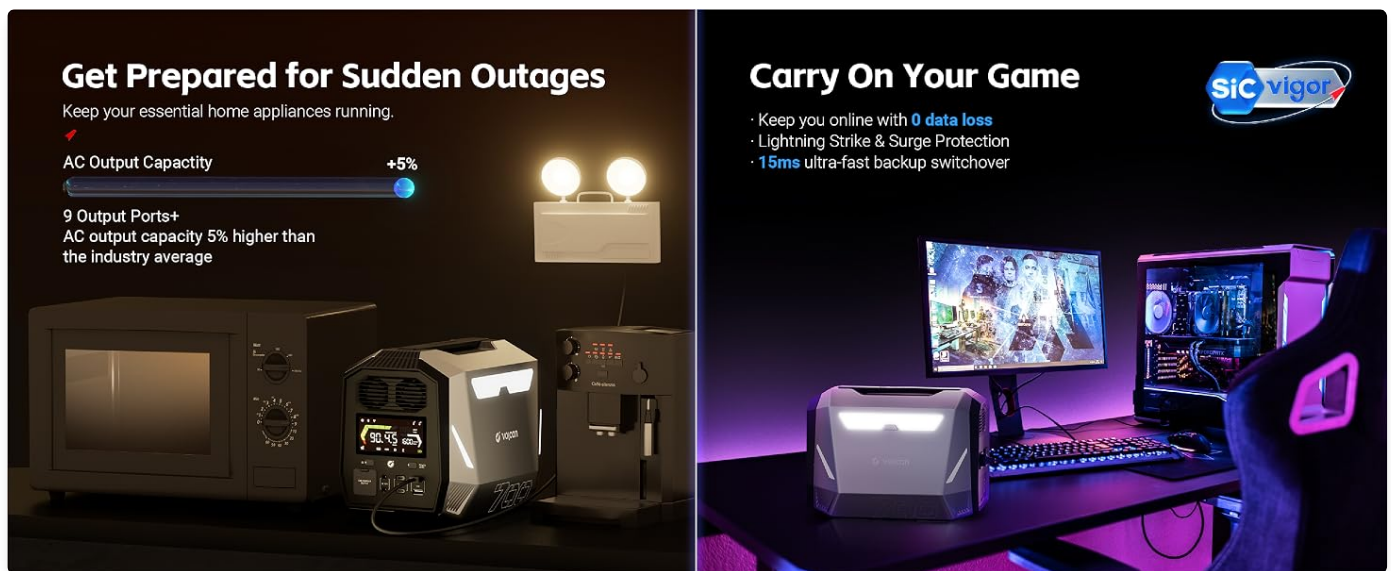


Image: The Volcan EnerGon 700 powering household appliances like a microwave and coffee maker, demonstrating its utility during sudden power outages.

6.2. Using DC Output (12V & Car Socket)

1. Press the DC Output button to enable the DC ports and car socket.
2. Connect your 12V DC device or car appliance to the appropriate port.
3. Press the DC Output button again to disable DC output when not in use.

6.3. Using USB Output

1. Connect your USB-powered device to any of the USB-A or USB-C output ports.
2. The USB ports are typically active when the unit is on.



Image: The Volcan EnerGon 700 demonstrating its capability to power a wide range of devices for camping (drone, GoPro, kettle, speaker), home (router, electric blanket, light, TV), and office (laptop, phone, projector, fan).

6.4. Uninterruptible Power Supply (UPS) Function

The EnerGon 700 features a 15ms ultra-fast backup switchover. When connected to an AC wall outlet and simultaneously powering devices via AC output, it acts as a UPS. In case of a power outage, the unit will automatically switch to battery power within 15 milliseconds, ensuring continuous operation for connected devices like computers or medical equipment.

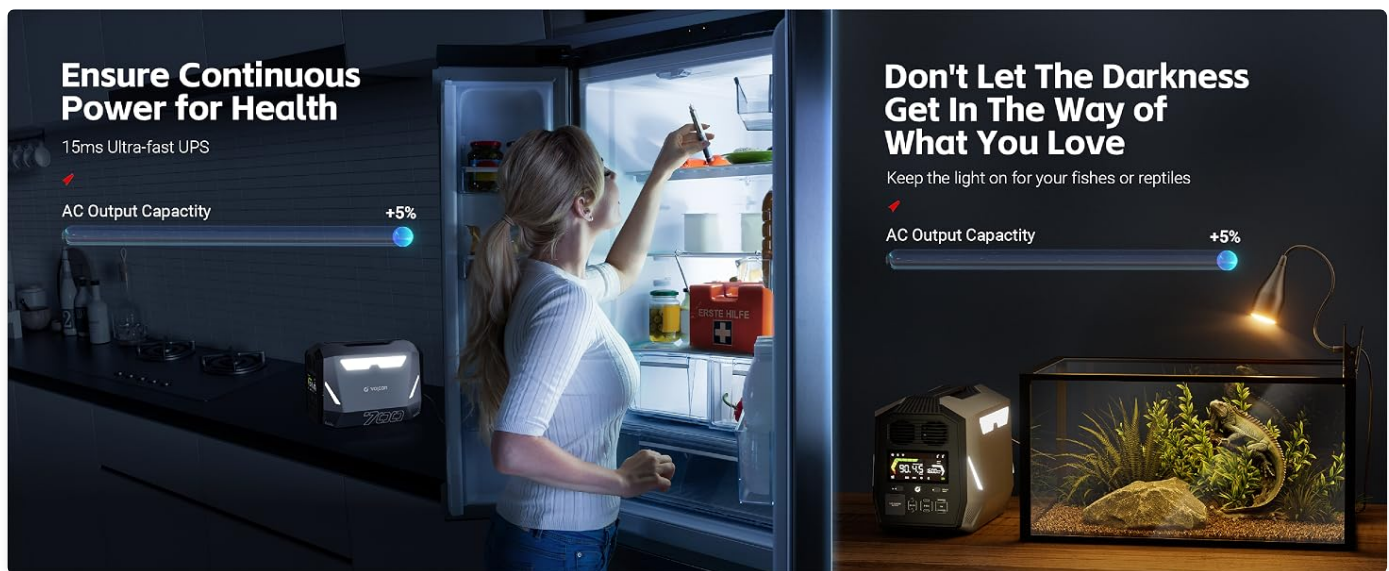


Image: The Volcan EnerGon 700 ensuring continuous power for essential items like a refrigerator and an aquarium, highlighting its UPS functionality.

6.5. Smart App Control

Download the "Volcan Power" app from the Apple App Store or Google Play Store to monitor and control your EnerGon 700 via Bluetooth. The app allows you to check charge level, temperature, and manage outlets remotely.



Image: A smartphone displaying the Volcan Power app interface, demonstrating remote control and monitoring capabilities for the EnerGon 700.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Volcan EnerGon 700.

- **Storage:** Store the power station in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Charging Frequency:** If not used for extended periods, charge the unit to 80% every 3-6 months to maintain battery health.
- **Cleaning:** Use a dry, soft cloth to clean the exterior. Do not use abrasive cleaners or solvents.

- **Ventilation:** Ensure cooling vents are clear of dust and debris.

8. TROUBLESHOOTING

If you encounter issues with your Volcan EnerGon 700, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	Battery is depleted.	Charge the power station using an AC adapter.
AC output not working.	AC output not enabled; appliance exceeds 700W.	Press the AC Output button; check appliance wattage.
Slow charging.	Using car charger or solar panel in low light.	Use AC wall charger for fastest charging; ensure optimal solar conditions.
Overload warning on display.	Connected device exceeds output limit.	Disconnect the device; reduce load.

If the problem persists, please contact Volcan customer support.

9. SPECIFICATIONS

Feature	Detail
Model	EnerGon 700
Battery Type	LiFePO4
Capacity	512Wh
AC Output	700W (Continuous), 1400W (Peak) Pure Sine Wave, 110V, 60Hz
USB-A Output	Supports QC3.0 and Apple 2.4A protocol, 5V/3A, 9V/2A, 12V/1.5A, total 18W
USB-C Output	Supports PD, QC, AFC, FCP, and Apple 2.4A protocol
DC Output	2 x 12V/10A
Car Socket Output	12V/10A
Charging Time (AC)	Approx. 1 hour (to 80%)
Charging Time (Solar)	As fast as 2.5 hours (with compatible solar panels)
Battery Cycles	4000+ cycles to 80% capacity
UPS Switchover Time	≤15ms

Feature	Detail
Dimensions	10.9 x 7 x 8 inches
Weight	13.3 lbs
Power Saving Mode	Automatic shutdown after 2 hours of low current
LED Light	5W
App Connection	Bluetooth (Volcan Power App)

Specification Parameters



Capacitor	Capacitance	LFP 512Wh
	Battery management system	LFP battery management system county has 2-way protection for entry and exit and battery 12 type protection
USB/power transmission output	USB1	Supports 0C3.0 and Apple 2.4A protocol, 5V3A/9V2A/12V1.5A, a total of 18W
	USB2	Supports 0C3.0 and Apple 2.4A protocol, 5V3A/9V2A/12V1.5A, a total of 18W
	Type-C output	Power transmission: supporting PD, QG, AFC, FCP, and Apple 2.4A protocol
DC output	DC1	12V/10A
	DC2	12V/10A
	Car socket	12V/10A
AC output	Output port	2*AC110V
	Output power	Pure sine wave 700W (peak 1400)
	Power	60HZ
Power saving mode	Power saving mode	Automatic shutdown after 2 hours of low current
LED light	Power	5W
APP connection	Bluetooth	Can be downloaded from Apple Store or Google Store APP

Image: A comprehensive table detailing the specification parameters of the Volcan EnerGon 700 Portable Power Station.

The 3rd Gen PPS

Better than ever



	700W (Peak 1400W)	600W (Peak 1200W)	500W (Peak 1000W)
Capacity(Wh)	512	512	518
SiC-Inverter Technology	Bi-Directional Inverter	Bi-Directional Inverter	Single-Phase Inverter
DC-AC Transfer Rate	94%	90%	89%
Heat Conversion Efficiency	6%	10%	11%
Size	10.9*7*8 Inches	10.6*10.2*7.7 Inches	11.8*7.6*9.2 Inches
Volume	610 oz	832 oz	825 oz
Weight	13.3 lbs	13.3 lbs	13.3 lbs
Lightning Protection & Surge Protection	Y	N/A	N/A
UPS	≤15ms	20ms	N/A

Image: A comparison table highlighting the improvements of the 3rd Gen Volcan Portable Power Station (EnerGon 700) over previous generations, including output power, capacity, technology, and safety features.

10. WARRANTY AND SUPPORT

Volcan is committed to providing high-quality products and customer service.

Warranty Information:

- The Volcan EnerGon 700 Portable Power Station comes with a**24-month warranty** from the date of purchase.
- This warranty covers defects in materials and workmanship under normal use.
- It does not cover damage caused by misuse, accident, unauthorized modification, or natural disasters.

Customer Support:

- For technical assistance, troubleshooting, or warranty claims, please contact Volcan customer support.
- Customer support is available **24/7**.
- Please have your product model and purchase information ready when contacting support.



Image: A Volcan customer service representative, symbolizing the available after-sales 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