

Powdeom EV300

Powdeom EV300 Portable Power Station & SS60 Solar Panel User Manual

Model: EV300 & SS60

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1. INTRODUCTION

Thank you for choosing the Powdeom EV300 Portable Power Station and SS60 Foldable Solar Panel. This manual provides essential information for the safe and efficient use of your power station and solar panel. Please read it thoroughly before operation and retain it for future reference.



Image 1.1: The Powdeom EV300 Portable Power Station and SS60 Foldable Solar Panel.

2. PRODUCT COMPONENTS

2.1 What's Included

- Powdeom EV300 Power Station (x1)
- Powdeom SS60 Solar Panel (x1)
- 10-in-1 Connect Cable (x1)
- DC-to-DC Cable (x1)
- Carabiners (x2)
- User Manual (x1)

2.2 Power Station Overview

The EV300 Power Station features multiple output ports for versatile charging. Refer to the diagram below for port identification.



Image 2.1: Front panel of the Powdeom EV300 Power Station with labeled ports and controls.

- **LED Switch:** Controls the integrated LED light.
- **Wireless Charging Pad:** For compatible devices.
- **LCD Display:** Shows battery level, input/output power, and status indicators.
- **DC IN 12V-30V:** Input port for charging the power station via AC adapter, car charger, or solar panel.
- **DC Switch:** Activates DC output ports.
- **DC OUT 12V/5A (x2):** DC output ports.
- **Cigarette Lighter Output 12V/10A:** Car accessory port.
- **USB Switch:** Activates USB output ports.
- **PD 65W IN/OUT (Type-C):** Power Delivery port for fast charging input or output.
- **USB 5V/2.4A (x2):** Standard USB-A output ports.
- **AC Switch:** Activates AC output ports.
- **AC 300W (x2):** Pure Sine Wave AC outlets.

2.3 Solar Panel Overview

The SS60 Foldable Solar Panel is designed for portability and efficient charging of your power station.



Image 2.2: The SS60 Foldable Solar Panel showcasing its compact design and dimensions.

9 MULTIPLE OUTLETS POWER ALL ON THE GO



Image 2.3: The SS60 Solar Panel's compatibility with various power stations and devices using different adapters.

3. SAFETY PRECAUTIONS

Observe the following safety guidelines to prevent damage to the product or injury to yourself:

- Upon receiving the power station, inspect the DC charger for any damage.
- For optimal battery calibration, fully discharge the power station to 0% until it automatically shuts down, then fully recharge it to 100%.
- When using the 300W power station with loads exceeding 100W, the internal fan may operate with increased noise. This is normal and indicates proper heat dissipation.
- Avoid exceeding 65W power output when using the PD port.
- The maximum AC output is 300W. For stable operation, it is recommended to power devices less than 300W. Avoid connecting laptops with less than 10% battery, as this may trigger peak power protection.
- The power station has built-in temperature sensors. If the battery reaches 60°C, it will automatically shut down for protection. If the inverter board reaches 85°C, it will automatically protect and shut down until the temperature drops

to 45°C.

4. SETUP

4.1 Initial Charging

Before first use, it is recommended to fully discharge the power station until it automatically shuts down, then fully recharge it to 100% using the provided AC charger or PD port. This calibrates the battery for accurate readings.

4.2 Connecting the Solar Panel

To charge the EV300 Power Station using the SS60 Solar Panel:

1. Unfold the SS60 Solar Panel and place it in direct sunlight.
2. Connect the DC-to-DC cable from the solar panel to the DC IN port on the EV300 Power Station.
3. The LCD display on the power station will indicate charging status.



Image 4.1: The SS60 Solar Panel charging Powdeom power stations in an outdoor setting.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Press and hold the main power button (usually located near the LCD display) to turn the power station on or off.

5.2 Using AC Outlets

The EV300 provides two Pure Sine Wave AC 300W outlets.

1. Press the **AC Switch** button to activate the AC outlets. An indicator on the LCD display will confirm activation.
2. Plug your device (rated under 300W) into an AC outlet.
3. When finished, press the **AC Switch** button again to turn off the AC outlets and conserve power.



Image 5.1: The EV300 Power Station providing power to various appliances via its 300W AC outlet.

5.3 Using USB and DC Outputs

The power station includes USB-A, QC 3.0, PD 65W (Type-C), DC 12V/5A, and a 12V/10A cigarette lighter port.

1. Press the **USB Switch** to activate USB ports or the **DC Switch** to activate DC ports.
2. Connect your devices to the appropriate ports.
3. The PD 65W Type-C port supports both input and output.
4. Turn off the respective switches when not in use.

296Wh

LARGE CAPACITY

SUITABLE FOR A VARIETY OF SCENARIOS



Image 5.2: The EV300 Power Station simultaneously charging multiple devices, demonstrating its 296Wh capacity.

5.4 Automatic Power-Off Function

To conserve battery, the power station will automatically shut down if no output is detected for 5 minutes. To disable this function, activate all output buttons (AC, DC, USB) simultaneously (excluding the light button).

5.5 Charging the Power Station

The EV300 can be charged via AC, PD (Type-C), or solar input. For faster charging, prioritize using the AC or PD port.

- **AC Charging:** Connect the provided AC adapter to the DC IN port and a wall outlet.
- **PD (Type-C) Charging:** Connect a PD-compatible charger to the PD 65W IN/OUT port.
- **Solar Charging:** Connect the SS60 Solar Panel to the DC IN port as described in Section 4.2.

6. MAINTENANCE

- Store the power station and solar panel in a cool, dry place away from direct sunlight and extreme temperatures.
- Avoid exposing the devices to water or high humidity.
- Clean the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- For long-term storage, charge the power station to approximately 50-80% every 3-6 months to prolong battery life.

7. TROUBLESHOOTING

7.1 Fan Noise

If the power station is operating with loads over 100W, the fan may become noisy. This is normal and indicates the cooling system is actively dissipating heat to maintain optimal operating temperatures.

7.2 Button Malfunction

If a button does not respond, ensure the power station is turned on. If the issue persists, contact customer service with photos or videos of the problem.

7.3 Automatic Shutdown (Temperature Protection)

The power station is equipped with temperature protection. If the internal battery reaches 60°C or the inverter board reaches 85°C, the unit will automatically shut down to prevent damage. Allow the unit to cool down before attempting to restart it.

8. SPECIFICATIONS

8.1 Powdeom EV300 Power Station

Model	EV300
Capacity	296 Wh
AC Output	2x Pure Sine Wave 300W (Max)
PD (Type-C) Port	65W Input/Output
USB-A Output	2x 5V/2.4A
DC Output	2x 12V/5A
Cigarette Lighter Output	12V/10A
DC Input	12V-30V
Dimensions	8.46 x 6.3 x 7.56 inches
Weight	7.7 lbs
Material	Aluminum

8.2 Powdeom SS60 Solar Panel

Model	SS60
Maximum Power	60 Watts
Working Voltage	18.25V
Working Current	-3.28A
Open Circuit Voltage	21.76V
Short Circuit Current	3.45A

Folded Dimensions	15.9 x 8.94 x 0.81 inches
Unfolded Dimensions	34.65 x 15.9 x 1.06 inches
Weight	2.8 lbs
Working Temperature	-20°C ~ 60°C
Waterproof Level	IP65
Material	Tempered Glass

60W PORTABLE SOLAR PANEL

Folded Dimensions	-----	15.9*8.94*.81in
Unfolded Dimensions	-----	34.65*15.9*1.06in
Weight	-----	1.27kg/2.8lbs
Working Power	-----	65W
Working Voltage	-----	18.25V
Working Current	-----	-3.28A
Open Circuit Voltage	-----	21.76V
Short Circuit Current	-----	3.45A
Working Temperature	-----	-20°C~60°C
Waterproof Level	-----	-IP65



Image 8.1: Detailed specifications for the Powdeom SS60 Portable Solar Panel.

9. WARRANTY AND SUPPORT

Powdeom provides a **12-month warranty** for the EV300 Portable Power Station and SS60 Solar Panel. For any questions, technical support, or warranty claims, please contact Powdeom customer service. Refer to the contact information provided with your product packaging or visit the official Powdeom website for assistance.

