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› INNOVATIVE LIFE 300W Portable Power Station User Manual

INNOVATIVE LIFE PYS-PEI-E00300

INNOVATIVE LIFE 300W Portable Power Station User Manual

Model: PYS-PEI-E00300

1. INTRODUCTION AND OVERVIEW

The INNOVATIVE LIFE 300W Portable Power Station is a versatile and reliable power solution designed for various applications, including home backup, RV trips, outdoor adventures, camping, and emergency situations. Equipped with a high-efficiency 294Wh lithium-ion battery, it provides stable and safe power for your electronic devices and small appliances.

This manual provides essential information on the setup, operation, maintenance, and troubleshooting of your new power station. Please read it thoroughly before use to ensure safe and optimal performance.

2. WHAT'S INCLUDED IN YOUR PACKAGE

- 300W Portable Power Station x 1
- AC Adapter x 1
- Car Charger Cable x 1
- Instruction Manual x 1

3. PRODUCT FEATURES AND COMPONENTS

The INNOVATIVE LIFE 300W Portable Power Station is built with a high-strength aluminum alloy body shell and features a clear LED display for monitoring output and battery status. It offers a variety of output ports to meet diverse power needs.



Figure 3.1: Front view of the 300W Portable Power Station.

300W PRODUCT OVERVIEW

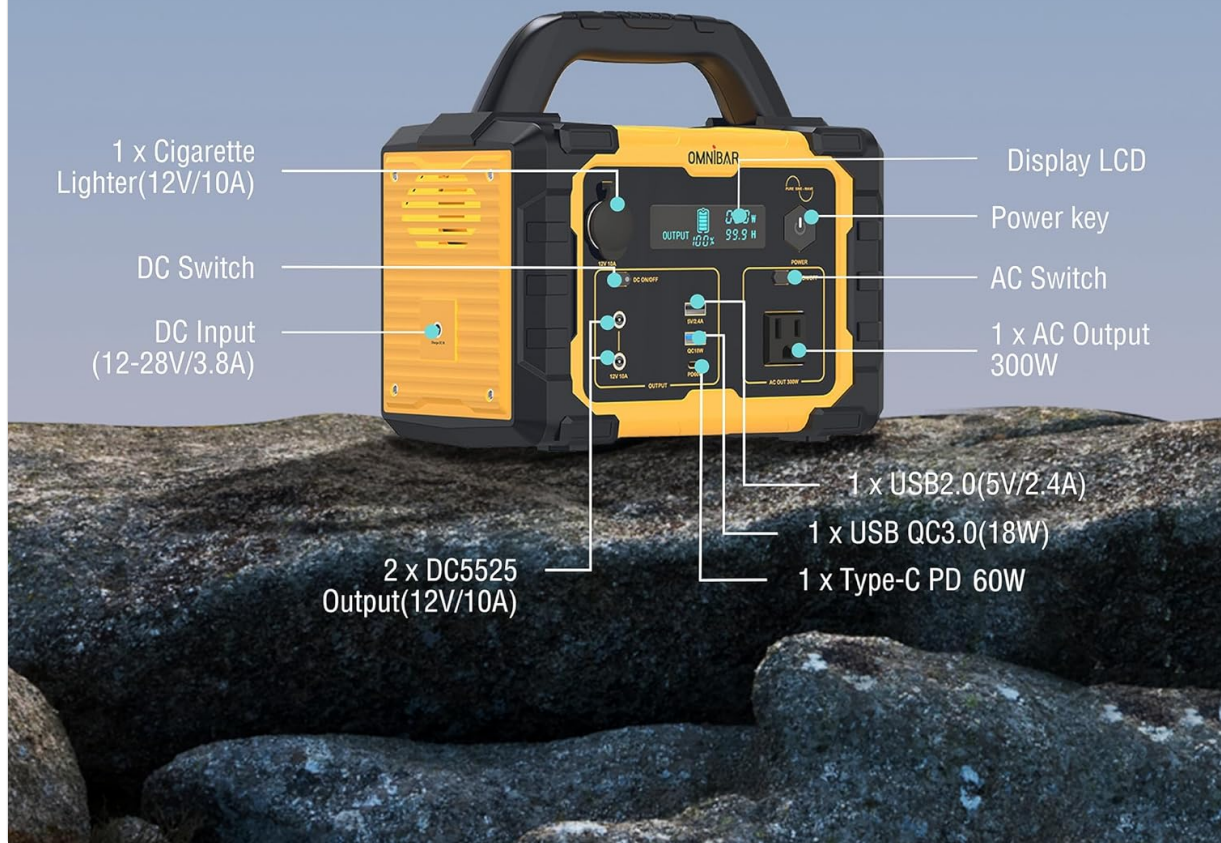


Figure 3.2: Detailed overview of the power station's ports and controls.

Display LCD: Shows battery level, output wattage, and remaining runtime.

Power Key: Main power button for the unit.

AC Switch: Activates the AC output.

AC Output 300W: Standard 120V AC outlet.

DC Switch: Activates the DC outputs.

DC Input (12-28V/3.8A): Port for charging the power station via AC adapter, car charger, or solar panel.

1 x Cigarette Lighter (12V/10A): Standard car accessory port.

2 x DC5525 Output (12V/10A): DC barrel jack outputs.

1 x USB2.0 (5V/2.4A): Standard USB-A port.

1 x USB QC3.0 (18W): Quick Charge USB-A port.

1 x Type-C PD 60W: Power Delivery USB-C port.

UPGRADED BATTERY SYSTEM

COOLING FAN



Figure 3.3: Internal components and safety features, including the cooling fan and Battery Management System (BMS).

Your browser does not support the video tag. This video demonstrates the portable power station's features and various use cases for home and outdoor environments.

Video 3.1: Official product overview showcasing the power station's versatility.

4. SETUP

Upon receiving your INNOVATIVE LIFE 300W Portable Power Station, it is recommended to fully charge it before first use to optimize battery performance and lifespan.

1. **Unpack:** Carefully remove all components from the packaging.
2. **Initial Charge:** Connect the provided AC adapter to the DC Input port on the power station and plug it into a standard wall outlet. The LED display will indicate charging status.
3. **Full Charge:** Allow the unit to charge until the battery indicator shows 100%. This may take approximately 5-6 hours.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- To turn on the power station, press and hold the **Power Key** for approximately 3 seconds. The LED

display will illuminate.

- To turn off the power station, press and hold the **Power Key** again for approximately 3 seconds until the display turns off.

5.2 Using AC Output

- Ensure the power station is turned on.
- Press the **AC Switch** to activate the 120V AC outlet. The AC indicator light will turn on.
- Plug your device into the AC outlet. The display will show the output wattage.
- When finished, press the **AC Switch** again to turn off the AC output and conserve battery.

5.3 Using DC and USB Outputs

- Ensure the power station is turned on.
- Press the **DC Switch** to activate the DC and USB ports. The DC indicator light will turn on.
- Plug your devices into the appropriate DC (Cigarette Lighter, DC5525) or USB (USB2.0, QC3.0, Type-C PD) ports.
- When finished, press the **DC Switch** again to turn off the DC and USB outputs and conserve battery.

5.4 LED High-Brightness Light

- To turn on the LED light, locate the light button on the side of the unit and press it.
- Press the button again to cycle through different modes (Steady, Strobe, SOS).
- Press and hold the button to turn off the LED light.

6. MULTIPLE CHARGING METHODS

Your power station offers three convenient ways to recharge:

300W-3 WAYS TO RECHARGE



Figure 6.1: Visual representation of the three charging methods.

- **Wall Outlet (AC Adapter):** Use the included AC adapter to charge from a standard wall outlet. This is the fastest method for home use, taking approximately 5-6 hours for a full charge.
- **Car Charger:** Recharge your power station on the go using the included car charger cable. Plug it into your vehicle's 12V car port. This method typically takes 7-8 hours.
- **Solar Panel:** The power station features an integrated MPPT (Maximum Power Point Tracking) charging system, allowing for efficient solar charging. Connect a compatible solar panel (not included) to the DC Input port. Charging time varies depending on solar intensity and panel wattage, typically 7-8 hours with a suitable panel.

7. SAFETY AND PROTECTION FEATURES

The INNOVATIVE LIFE 300W Portable Power Station is equipped with a robust Battery Management System (BMS) and high-efficiency energy conversion circuitry to ensure safe and stable operation. Key protections include:

- **Overcharging Protection:** Prevents the battery from being overcharged, extending its lifespan.
- **Over-discharging Protection:** Protects the battery from deep discharge, which can cause damage.
- **High and Low Temperature Protection:** Automatically shuts down the unit if temperatures exceed safe operating limits.

- **Multi-stage Overcurrent Protection:** Safeguards against excessive current draw.
- **Short-circuiting Protection:** Prevents damage from short circuits.

8. MAINTENANCE

- **Storage:** Store the power station in a cool, dry place away from direct sunlight and extreme temperatures.
- **Recharge Frequency:** For optimal battery health, recharge the unit every 3-6 months, even if not in use.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners or immerse the unit in water.
- **Ventilation:** Ensure the ventilation vents are clear of obstructions during operation to prevent overheating.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on	Low battery level	Charge the power station fully.
No output from AC/DC/USB ports	Output switch not activated	Press the corresponding AC or DC switch to enable output.
Overload protection activated	Connected device exceeds wattage limit	Disconnect the device, turn off the power station, then restart and connect a lower-wattage device.
Unit not charging	Charger cable or adapter issue	Ensure all connections are secure. Try a different outlet or charging method.
Solar charging is slow or not working	Insufficient sunlight or incompatible panel	Ensure direct sunlight and proper panel alignment. Verify panel voltage and wattage compatibility.

10. SPECIFICATIONS

Specification	Detail
Brand	INNOVATIVE LIFE
Model Name	PYS-PEI-E00300
Wattage	300 watts
Output Wattage	300 Watts
Running Wattage	300 Watts
Engine Power Maximum	300 Watts
Fuel Type	Electric
Power Source	Battery Powered, Solar Powered, AC Powered
Item Weight	8 Pounds

Specification	Detail
Voltage	120 Volts
Special Feature	Portable
Included Components	Car Charger Cable*1, 300W Power Station*1, User Manual*1, AC Adapter*1
Color	Yellow
Product Dimensions	9.68"L x 5.55"W x 8.7"H
Engine Type	Solar
Total Power Outlets	7
Manufacturer	PYS High-Tech Co., Ltd.
Part Number	PYS-PEI-E00
Batteries	32 Lithium Ion batteries required. (included)
Battery Cell Type	Lithium Ion

11. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the contact details provided in your included instruction manual or visit the official INNOVATIVE LIFE website. Keep your purchase receipt for warranty claims.