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EnginStar R300

EnginStar 300W Portable Power Station User Manual

Model: R300

1. PRODUCT OVERVIEW

The EnginStar 300W Portable Power Station is a versatile and compact power solution designed for various applications, including outdoor activities, road trips, RV use, and emergency power supply during blackouts. Equipped with a 296Wh lithium battery, it provides 300 watts of pure sine wave AC output, ensuring stable and clean power for your devices.



Figure 1: Front view of the EnginStar 300W Portable Power Station, highlighting its display, power buttons, and various output ports.

Its compact size (9 x 5.5 x 7.5 inches) and lightweight design (6.5 pounds) make it easy to carry. The unit features multiple output options, including AC, USB, USB-C, 12V car port, and DC ports, allowing simultaneous charging of various devices.

2. SAFETY INFORMATION

This power station is equipped with an advanced protection system to ensure safe operation. It includes safeguards against overloading, over-discharging, overcharging, overheating, and short circuits. For optimal performance and longevity, please adhere to the following safety guidelines:

- Fully charge the power station before initial use.
- If not used for an extended period, recharge the battery every 3-6 months, maintaining a charge level of 40%-70%.
- Recharge the battery before it is completely exhausted to prolong its lifespan.
- Store the battery in a dry environment between 40°F and 100°F (4°C and 35°C) or in moisture-proof packaging.
- Keep the unit away from heat sources and direct sunlight.
- This 300W portable generator supports devices with power consumption lower than 300 watts. It may not support large capacity products such as electric grills, induction cookers, microwaves, refrigerators, or heaters.

3. PRODUCT COMPONENTS

The EnginStar 300W Portable Power Station package includes:

- 1 x EnginStar Rechargeable Electrical Power Station
 - 1 x User Manual (this document)
 - 1 x Home Charger (AC wall adapter)
 - 1 x Car Charger Cable
-

4. SETUP

Before using your EnginStar Portable Power Station, ensure it is fully charged. The unit offers multiple convenient recharging options:

1. **AC Wall Adapter:** Quickly recharge the unit at home using the provided AC wall adapter. A full charge typically takes about 7 hours.
2. **Solar Panel:** Connect to a 12-25V solar panel (sold separately by EnginStar) for recharging outdoors on sunny days.
3. **Car Charger:** Use the included car charger cable to recharge the unit while on the go during road trips.

3 WAYS TO RECHARGE

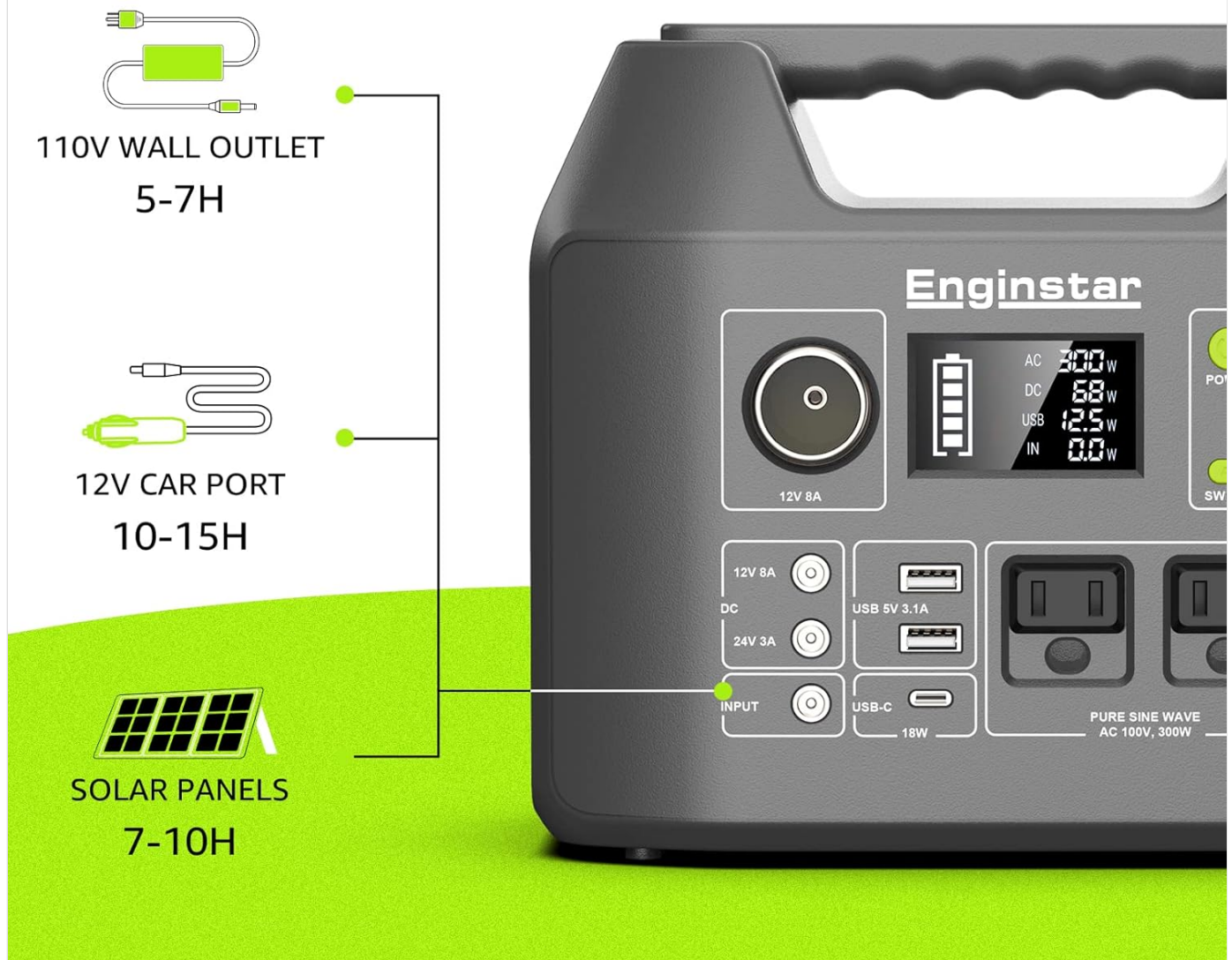
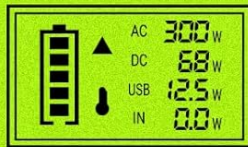


Figure 2: Recharging options for the EnginStar Portable Power Station.

5. OPERATING INSTRUCTIONS

The EnginStar Portable Power Station is designed for ease of use. It features a smart LCD display that shows remaining battery life and input/output wattage. The unit provides stable pure sine wave AC output, which is safe for sensitive electronics.

SMART LCD DISPLAY



Easy To Read

- Remain Battery
- Input/Output Wattage



3 LED MODES FOR ANY SITUATION



Steady



Strobes

SOS

SOS



Figure 3: Smart LCD Display for monitoring power status.

Connecting Devices

The power station is equipped with 8 output ports to power multiple devices simultaneously:

- 2 x 110V Pure Sine Wave AC Outlets (300W max)
- 3 x USB Outputs (including 1x USB-C 18W)
- 1 x 12V Car Port
- 1 x 12V DC Output
- 1 x 24V DC 5.5x2.1mm Barrel Port

MULTIPLE OUTPUTS AND QUICK CHARGE

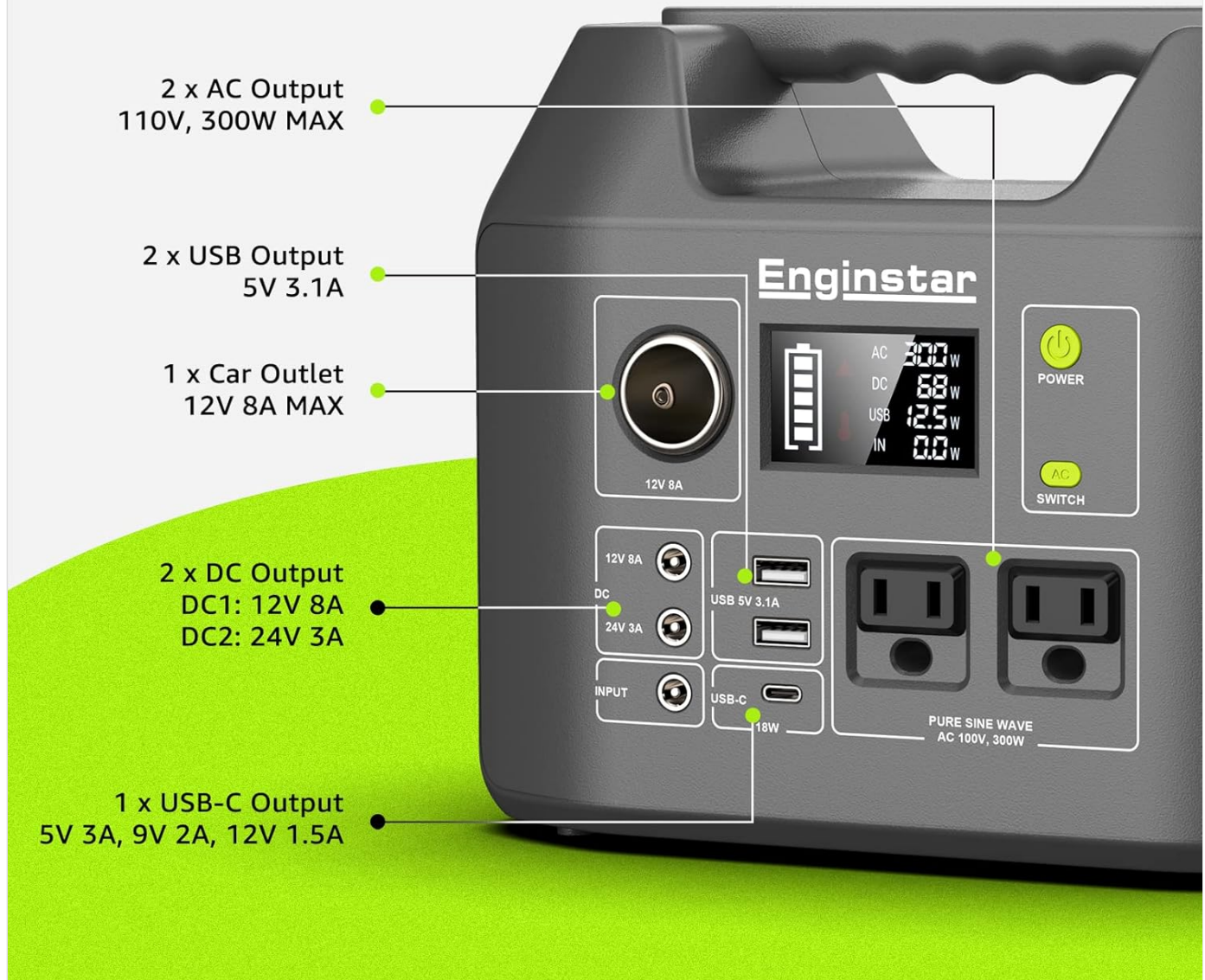


Figure 4: Multiple output ports for diverse device compatibility.

Simply plug your device's charging cable or power adapter into the appropriate port. For AC outlets, press the 'Switch' button next to the AC ports to activate them. It is normal for a red triangle to appear for 3-5 seconds when activating AC output as the unit checks the connection.

Compatible Devices

The 300W output is suitable for powering a wide range of electronics, including:

- CPAP machines (1-3 nights depending on settings)
- Laptops (approx. 4.5 charges)
- Cellphones (approx. 25 charges)
- Cameras (approx. 45 charges)
- Drones (approx. 6 charges)
- Gaming consoles (e.g., Nintendo Switch, approx. 18 charges)
- Mini-fridges, small fans, LED lamps, and tablets.

300W 296WH COMPACT POWER STATION



Figure 5: Examples of devices and their estimated charge capacities.

Avoid connecting devices that exceed the 300W power limit to prevent damage to the power station and the device.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your EnginStar Portable Power Station:

- **Regular Charging:** Recommend fully charging the unit every 2-3 months, even if not in use, to keep the power station in good working condition.
- **Avoid Deep Discharge:** Recharge the battery in time before it is completely exhausted.
- **Storage Conditions:** Store the battery in a dry environment at 40°F~100°F (4°C~35°C) or in moisture-proof packaging. Keep away from heat sources and direct sunlight.

7. TROUBLESHOOTING

If you encounter issues with your power station, consider the following:

- **AC Output Indicator:** It is normal when you turn on the AC output button for a red triangle to show up for 3-5 seconds while checking AC output. This will disappear.
- **Device Compatibility:** Ensure that the device you are trying to power or charge does not exceed the 300W limit of the portable generator. High-power appliances are not supported.

8. SPECIFICATIONS

Feature	Specification
Brand	EnginStar
Model Name	R300
Wattage	296 Watt-hours
Output Wattage	300 Watts
Voltage	110 Volts (AC)
Item Weight	6.5 Pounds
Product Dimensions	9"L x 5.5"W x 7.5"H
Power Source	Battery-Powered/ Solar Powered
Battery Type	Lithium Ion (1 included)
Total Power Outlets	8 (2x AC, 3x USB, 1x Car, 2x DC)
Special Features	Overheating protection, Overload Protection, Short Circuit Protection, Overcharging protection, Over-discharging protection



Figure 6: Product dimensions and weight.

9. WARRANTY AND SUPPORT

The EnginStar Portable Power Station comes with a 12-month limited service time from the date of purchase. For detailed warranty information or further assistance, please refer to the official user manual PDF available through your purchase platform or contact EnginStar customer support.

For additional information and visual guides, you may refer to the official User Manual (PDF) provided with your product.