

V-TAC VT-606

V-TAC VT-606 Portable Power Station 500W User Manual

1. INTRODUCTION

Thank you for choosing the V-TAC VT-606 Portable Power Station. This device is designed to provide reliable power for various electronic devices, whether you are at home, camping, or on the go. With a substantial 568 Wh battery capacity and multiple output ports, it offers versatility and convenience. This manual provides essential information for safe and efficient operation, setup, maintenance, and troubleshooting.



Image 1: The V-TAC VT-606 Power Station shown in an outdoor setting next to a camper van, demonstrating its portability and utility for outdoor activities.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the V-TAC VT-606 Power Station. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- Do not place the unit near fire or expose it to high temperatures (above 40°C/104°F).
- Do not use or store the unit in a bathroom or in areas exposed to water or moisture.
- Do not drop, strike, or subject the unit to strong impacts.
- Keep out of reach of children and pets.
- Do not insert foreign objects into the ports or openings.
- Ensure proper ventilation during use and charging. Do not cover the unit.
- Integrated safety systems include short-circuit protection, automatic overcharge stop, dynamic output current control to prevent overloading, and protection against overvoltage, undervoltage, and increased battery temperature.

- Use only original or certified charging cables and adapters.

3. PRODUCT OVERVIEW

The V-TAC VT-606 Power Station is a portable power solution featuring a 568 Wh battery, a standard output of 600W, and a peak output of 1000W. It is equipped with various ports to meet diverse power needs.

3.1. Front Panel Components



Image 2: A detailed view of the V-TAC VT-606 Power Station's front panel, highlighting the input/output ports, control buttons, and the LCD display.

1. **Input Port (DC 12V-24V):** For charging the power station via AC adapter, car charger, or solar panel.
2. **Power Button:** Turns the unit ON/OFF.
3. **LCD Display:** Shows battery level, input/output wattage, and status indicators.
4. **AC Output Button:** Activates/deactivates the AC outlet.
5. **AC Outlet (220V, 500W continuous, 1000W peak):** For powering standard household appliances.
6. **DC Output Button:** Activates/deactivates the DC 12V and USB ports.
7. **USB-A Ports (5V, 2.4A):** For charging smartphones, tablets, and other USB-powered devices.
8. **USB-C Port (PD 5V/9V/12V/15V/20V 65W):** For fast charging compatible USB-C devices, including laptops.

9. **DC 12V-10A Output Ports:** For powering 12V devices, such as car refrigerators or portable air pumps.
10. **Wireless Charging Pad:** For Qi-compatible wireless charging of smartphones.
11. **LED Flashlight:** Provides illumination in dark environments.

4. SETUP

4.1. Initial Charging

Before first use, fully charge the V-TAC VT-606 Power Station. This ensures optimal battery performance and longevity.

1. Connect the included AC adapter to the DC input port (1) on the power station.
2. Plug the AC adapter into a standard wall outlet (230V).
3. The LCD display (3) will show the charging status and battery percentage.
4. Charging is complete when the display shows 100%. This typically takes approximately 7.5 hours.

5. OPERATION

5.1. Charging the Power Station

The VT-606 can be charged using three methods:

- **AC Wall Charger:** Connect the included AC adapter to the DC input port and a 230V wall outlet. (Approx. 7.5 hours)
- **Car Charger:** Connect the included car charger to the DC input port and your vehicle's 12V cigarette lighter socket. (Approx. 9 hours)
- **Solar Panel (Sold Separately):** Connect a compatible solar panel (e.g., 100W) to the DC input port. Ensure the solar panel is positioned to receive maximum sunlight. (Approx. 10 hours for a 100W panel)

The power station can be used to power devices even while it is being charged.

5.2. Using AC Output

1. Press the Power Button (2) to turn on the unit.
2. Press the AC Output Button (4) to activate the AC outlet. The AC indicator on the LCD display will illuminate.
3. Plug your device into the AC Outlet (5).
4. When finished, press the AC Output Button (4) again to turn off the AC output.

Note: The total power consumption of connected AC devices should not exceed 500W. If it exceeds 1000W (peak), the unit will automatically shut down to prevent damage.

5.3. Using DC Output (12V, USB-A, USB-C)

1. Press the Power Button (2) to turn on the unit.
2. Press the DC Output Button (6) to activate the DC 12V and USB ports. The DC indicator on the LCD display will illuminate.
3. Connect your devices to the appropriate ports:

- **USB-A Ports (7):** For standard USB charging.
 - **USB-C Port (8):** For fast charging compatible USB-C devices.
 - **DC 12V-10A Output Ports (9):** For 12V devices.
4. When finished, press the DC Output Button (6) again to turn off the DC outputs.

5.4. Using Wireless Charging

1. Press the Power Button (2) to turn on the unit.
2. Place your Qi-compatible smartphone on the Wireless Charging Pad (10).
3. Ensure the phone is centered on the pad for optimal charging. The charging indicator on your phone will confirm charging has started.
4. Wireless charging will automatically stop when the phone is fully charged or removed.

5.5. Using the LED Flashlight

1. Press the Power Button (2) to turn on the unit.
2. Locate the LED Flashlight (11) button (often integrated with the DC button or a separate button). Press it once to turn on the flashlight.
3. Press again to cycle through different modes (e.g., low, high, SOS, if available).
4. Press and hold (or press multiple times) to turn off the flashlight.

5.6. Understanding the LCD Display

The LCD Display (3) provides real-time information about the power station's status:

- **Battery Level Indicator:** Shows the remaining battery percentage.
- **Input Wattage:** Displays the power (in Watts) currently being drawn for charging.
- **Output Wattage:** Displays the power (in Watts) currently being supplied to connected devices (separated for AC and DC).
- **AC/DC Indicators:** Show which output ports are active.
- **Warning Icons:** May appear for over-temperature, overload, or other error conditions.

6. MAINTENANCE

6.1. Storage

- Store the power station in a cool, dry place, away from direct sunlight and extreme temperatures.
- For long-term storage, charge the unit to approximately 50-80% every 3-6 months to maintain battery health.
- Avoid storing in environments with high humidity or corrosive gases.

6.2. Cleaning

- Wipe the exterior with a soft, dry, or slightly damp cloth.
- Do not use abrasive cleaners or solvents.
- Keep the ventilation openings clear of dust and debris.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not turn on	Battery is completely depleted.	Connect to an AC charger and allow it to charge for at least 30 minutes before attempting to power on.
AC output not working	AC output not activated. Device power exceeds 500W.	Press the AC Output Button. Check device wattage; reduce load if necessary.
DC/USB output not working	DC output not activated.	Press the DC Output Button.
Unit stops charging/discharging unexpectedly	Overload, over-temperature, or short-circuit protection activated.	Disconnect devices, allow unit to cool down. Reduce load before reconnecting.
Wireless charging not working	Phone not Qi-compatible. Phone not properly aligned. Thick phone case.	Ensure phone supports Qi. Realign phone on the pad. Remove thick phone cases.

8. SPECIFICATIONS

The following table details the technical specifications of the V-TAC VT-606 Power Station:

Portable
Power station



Image 3: A diagram illustrating the physical dimensions of the V-TAC VT-606 Power Station, showing its length, width, and height.

Feature	Specification
Brand	V-TAC
Model	VT-606 (Manufacturer Model: 11442)
Battery Capacity	568 Wh (26.2Ah/21.6V)
AC Output (Continuous)	500W
AC Output (Peak)	1000W
AC Voltage	220V
Frequency	50 Hz
USB-A Output	5V, 2.4A

Feature	Specification
USB-C Output (PD)	5V/9V/12V/15V/20V, 65W
DC 12V Output	12V, 10A
DC Input	18V-22V
Wireless Charging	Qi-compatible
Item Weight	5.4 Kilograms
Product Dimensions (L x W x H)	275mm x 170mm x 215mm (approx. 10L x 10B x 10H millimeters from product data, but image shows 275x170x215)
Power Source	Electricity, Solar-powered (with optional solar panel)
Total Power Outlets	6 (AC, USB-A, USB-C, DC 12V) + Wireless Charging

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official V-TAC website. Keep your proof of purchase for warranty claims.