

## VOLT CRAFT SWD-300/12

# VOLT CRAFT SWD-300/12 300W 12V/DC to 230V/AC Inverter with Remote Control User Manual

## 1. INTRODUCTION

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Thank you for choosing the VOLT CRAFT SWD-300/12 Power Inverter. This device converts 12V DC power from a vehicle battery or other 12V DC source into 230V AC household power, allowing you to operate various electronic devices. This manual provides essential information for the safe and efficient use of your inverter, including setup, operation, maintenance, and troubleshooting.

## 2. SAFETY INSTRUCTIONS

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- Read all instructions before operating the inverter.
- Keep the inverter away from moisture, water, and flammable materials.
- Ensure adequate ventilation around the inverter to prevent overheating. Do not block ventilation openings.
- Connect the inverter only to a 12V DC power source. Connecting to a 24V DC source will damage the unit.
- Do not open the inverter casing. There are no user-serviceable parts inside.
- Always disconnect the inverter from the power source before performing any maintenance or cleaning.
- Ensure the total power consumption of connected devices does not exceed the inverter's maximum output of 300W.
- This device features galvanic isolation for enhanced safety.

## 3. PRODUCT OVERVIEW

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The VOLT CRAFT SWD-300/12 inverter is designed for ease of use and reliability. It features a robust casing and clear connection points.



Figure 3.1: Front view of the VOLT CRAFT SWD-300/12 Inverter, showing the 230V AC output socket and cooling fan.



Figure 3.2: Rear panel of the VOLT CRAFT SWD-300/12 Inverter, featuring DC input terminals, remote control ports, a USB 5V output, and the main power switch.

## 4. SETUP

Follow these steps to set up your VOLT CRAFT SWD-300/12 inverter:

1. **Mounting:** Place the inverter on a stable, flat surface in a well-ventilated area. Ensure there is sufficient space around the unit for airflow.
2. **DC Input Connection:** Connect the 12V DC power source to the screw terminals on the rear panel of the inverter. Ensure correct polarity (red to positive, black to negative). Use appropriate gauge cables for the power rating.
3. **Remote Control Connection:** If using the remote control, connect its cable to the designated remote control port on the rear panel. The remote control features a data display.
4. **AC Output Connection:** Ensure the inverter's power switch is in the 'OFF' position. Plug your

230V AC devices into the AC output socket on the inverter's front panel. Do not exceed the 300W maximum output.

## 5. OPERATING

To operate the VOLT CRAFT SWD-300/12 inverter:

1. After completing the setup, switch the main power switch on the rear panel to the 'ON' position.
2. The inverter will power on, and if connected, the remote control display will show operational data.
3. You can now use your 230V AC devices by plugging them into the inverter's AC outlet.
4. To turn off the inverter, switch the main power switch to the 'OFF' position. Disconnect AC devices before turning off the inverter for safety.
5. The USB 5V output can be used to charge compatible USB devices.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your inverter:

- **Cleaning:** Regularly clean the exterior of the inverter with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Periodically check that the ventilation openings are clear of dust and debris. Use compressed air to gently clear any blockages.
- **Connections:** Ensure all DC and AC connections are secure and free from corrosion. Loose connections can cause overheating or poor performance.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place, away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

If you encounter issues with your VOLT CRAFT SWD-300/12 inverter, refer to the following table for common problems and solutions:

Problem	Possible Cause	Solution
No power output	Inverter is off; Low battery voltage; Overload; Loose connections; Blown fuse	Turn on inverter; Charge/replace battery; Reduce load; Check/tighten connections; Check internal fuse (professional service recommended)
Overheating	Poor ventilation; Excessive load	Ensure clear ventilation; Reduce connected load
Remote control not working	Loose connection; Damaged cable	Check remote cable connection; Replace remote control if damaged
Unusual noise or smell	Internal fault	Immediately disconnect power and contact customer support. Do not attempt to repair.

## 8. SPECIFICATIONS

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Technical specifications for the VOLTCRAFT SWD-300/12 inverter:

Feature	Specification
Model Number	SWD-300/12
Brand	VOLTCRAFT
Continuous Output Power	300 W
Input Voltage	12 V/DC
Output Voltage	230 V/AC
Frequency	50 Hz
Galvanic Isolation	Yes
Remote Control	Connectable with data display
Weight	1.8 kg

## 9. WARRANTY AND SUPPORT

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The VOLTCRAFT SWD-300/12 inverter comes with a manufacturer's warranty. Please refer to the warranty card included with your product for specific terms and conditions. For technical support, service, or spare parts inquiries, please contact your retailer or the VOLTCRAFT customer service department. Spare parts availability is typically 1 year from the date of purchase.