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› [Tripp Lite 700W Compact Power Inverter \(PV700HF\) Instruction Manual](#)

TRIPP LITE PV700HF

Tripp Lite 700W Compact Power Inverter (PV700HF)

Model: PV700HF

IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the Tripp Lite 700W Compact Power Inverter. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Proper Fusing:** To protect against high current draw that may occur during inverter failure, a fuse link rated at 125A should be positioned no more than 18 inches (45.7 cm) from the PV700HF's battery in the positive line.
- **Ventilation:** Ensure adequate ventilation around the inverter to prevent overheating. Do not block ventilation openings.
- **Environment:** Do not expose the inverter to rain, moisture, or extreme temperatures. Operate in a dry, well-ventilated area.
- **Connection Polarity:** Always connect the inverter to a 12V DC battery with correct polarity (red to positive, black to negative). Reverse polarity can cause severe damage.
- **Overload Protection:** The inverter is equipped with overload protection. Do not exceed the continuous power rating of 700W.
- **Qualified Personnel:** Servicing should only be performed by qualified service personnel.

PRODUCT OVERVIEW

The Tripp Lite 700W Compact Power Inverter (PV700HF) efficiently converts 12V DC battery power to 120V AC household current. It is designed for mobile, emergency, or remote site applications, providing reliable power for appliances, small electronics, and office equipment. Its ultra-compact, lightweight design with a durable metal housing ensures rugged performance.



Image: Tripp Lite 700W Compact Power Inverter (PV700HF) showing its compact design and outlets.

PACKAGE CONTENTS

Verify that all items are present upon unpacking:

- Tripp Lite 700W Compact Power Inverter (PV700HF)
- Integrated Mounting Feet
- Instruction Manual (this document)
- Warranty Information

SETUP AND INSTALLATION

Follow these steps for proper setup and installation of your power inverter:

1. **Battery Connection:** Connect the inverter directly to a 12V DC battery. Ensure the positive (+) terminal of the inverter is connected to the positive (+) terminal of the battery, and the negative (-) terminal of the inverter is connected to the negative (-) terminal of the battery. Use appropriate gauge cables for the connection.
2. **Fuse Link Installation:** Install a 125A fuse link in the positive (+) line, no more than 18 inches (45.7 cm) from the battery, to protect against high current draw.
3. **Mounting (Optional):** The inverter includes built-in mounting feet for secure installation. Choose a stable, well-

ventilated location away from direct sunlight, heat sources, and moisture. Secure the inverter using appropriate fasteners.

4. **Initial Power-Up:** After all connections are secure, turn on the inverter using its power switch. The indicator light should illuminate, confirming it is ready for use.

Your browser does not support the video tag.

Video: An informational video from Tripp Lite demonstrating general inverter concepts and applications. This video provides a visual overview of how Tripp Lite inverters function and their potential uses in various settings.

OPERATING INSTRUCTIONS

The Tripp Lite PV700HF inverter is designed for ease of use. Follow these guidelines for optimal performance:

1. **Powering On/Off:** Locate the ON/OFF switch on the inverter. Flip it to the 'ON' position to activate the inverter. The power indicator light will confirm operation. To turn off, flip the switch to 'OFF'.
2. **Connecting Devices:** The inverter features three (3) 120V AC outlets and one (1) USB port. Plug your AC-powered devices into the 3-prong outlets and USB-powered devices into the USB port.
3. **Load Management:** Ensure the total wattage of all connected devices does not exceed the inverter's continuous power rating of 700W. For devices with high startup surges (e.g., motors, compressors), ensure their peak wattage is within the inverter's surge capacity.
4. **Monitoring:** Some inverter models may include indicators for battery status or load. Pay attention to these to ensure stable operation and prevent battery depletion.

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Video: Demonstration of connecting a power inverter to a 12V battery and powering various household appliances and electronic devices. This illustrates the versatility of using an inverter for off-grid power needs.

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Video: A power inverter connected to a battery, demonstrating its ability to power an electric fan. This highlights the inverter's capability to run common electrical devices from a DC power source.

MAINTENANCE

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

- **Keep Clean:** Periodically clean the exterior of the inverter with a dry cloth. Ensure ventilation openings are free from dust and debris.
- **Check Connections:** Regularly inspect battery and output connections for tightness and corrosion. Loose connections can lead to power loss or overheating.
- **Battery Health:** Maintain your 12V DC battery according to its manufacturer's recommendations. A healthy battery is crucial for inverter performance.

TROUBLESHOOTING

If you encounter issues with your Tripp Lite PV700HF inverter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No AC Output	Inverter is off; Low battery voltage; Overload; Loose connections	Turn inverter ON; Recharge/replace battery; Reduce load; Check and tighten all connections.
Overload Indicator On	Connected devices exceed 700W continuous rating or surge capacity.	Disconnect some devices to reduce the load. Restart the inverter.

Problem	Possible Cause	Solution
Inverter Shuts Down	Low battery voltage; Overload; Overheating	Recharge battery; Reduce load; Ensure proper ventilation and allow to cool.
Fan Runs Continuously/Loudly	Normal operation under load; High ambient temperature	This is often normal. Ensure adequate ventilation. If excessive, check for blockages.

SPECIFICATIONS

Feature	Specification
Model Name	PV700HF
Wattage (Continuous)	700 watts
Power Source	Battery Powered (12V DC)
Output Voltage	120V AC
Outlets	3 x 5-15R AC Outlets
Product Dimensions	10.2 x 6.5 x 3.8 inches
Item Weight	3.25 pounds
Manufacturer	Tripp Lite

WARRANTY AND SUPPORT

The Tripp Lite 700W Compact Power Inverter (PV700HF) comes with a **1-Year Warranty**. For technical support, warranty claims, or additional product information, please refer to the contact details provided in the included warranty information document or visit the official Tripp Lite website.