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STANLEY PI1000S

STANLEY PI1000S 1000W Power Inverter Instruction Manual

Model: PI1000S

1. Introduction

The STANLEY PI1000S Power Inverter is an electronic device designed to convert 12V DC (Direct Current) power from a vehicle battery into 120V AC (Alternating Current) household power. This allows for the operation and charging of various electronic appliances, equipment, and USB-powered devices when access to standard AC outlets is unavailable. It is suitable for use in vehicles, at campsites, worksites, or during power outages.

2. Safety Information

WARNING: This product contains chemicals known to the State of California to cause cancer and reproductive harm. For more information, visit www.P65Warnings.ca.gov.

- Ensure the inverter is connected to a 12V DC power source only.
- Do not exceed the inverter's rated wattage (1000W continuous).
- Always connect the inverter with correct polarity (red to positive, black to negative).
- Operate the inverter in a well-ventilated area to prevent overheating.
- Keep the inverter away from moisture, water, and flammable materials.
- Disconnect the inverter from the power source when not in use.

3. Package Contents

- STANLEY PI1000S Power Inverter
- Battery Clamps (for direct battery connection)
- User Manual

4. Product Features

- **1000W Continuous Power:** Provides ample power for most hand tools and multiple electronic devices.
- **Triple 120V AC Outlets:** Allows connection of standard household appliances.
- **Dual 3.1A USB Ports:** For charging smartphones, tablets, and other USB-powered devices.

- **Durable Construction:** Features a tough aluminum housing with mounting grommets for permanent installation.
- **LCD Screen:** Displays wattage in use, battery level, and warning indicators.
- **Integrated Protections:** Includes over-voltage protection (100W), low battery warning, and ETL certification for safety.



Figure 1: Front view of the STANLEY PI1000S Power Inverter showing AC outlets, USB ports, and LCD display.

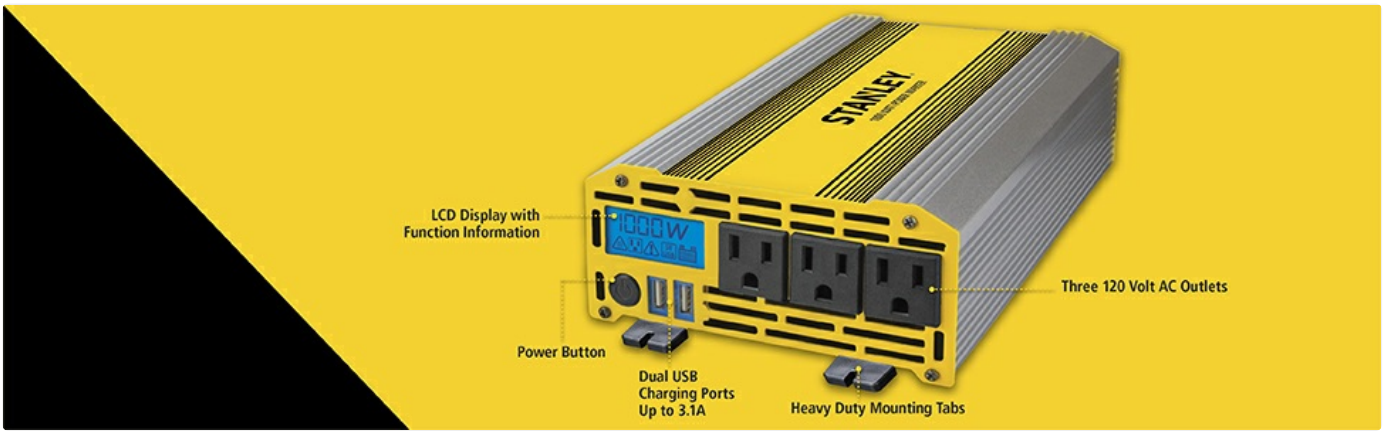


Figure 2: Detailed view of the inverter highlighting the LCD display, AC outlets, USB charging ports, and heavy-duty mounting tabs.

5. Setup

1. **Prepare the Inverter:** Place the inverter on a flat, stable surface in a well-ventilated area. Ensure there is sufficient space around the unit for proper airflow.
2. **Connect to 12V DC Power Source:**
   - Identify the positive (+) and negative (-) terminals on both the inverter and your vehicle's 12V battery.

- Connect the red battery clamp cable to the positive (+) terminal of the inverter, then to the positive (+) terminal of the battery.
- Connect the black battery clamp cable to the negative (-) terminal of the inverter, then to the negative (-) terminal of the battery.
- Ensure all connections are tight and secure to prevent arcing or poor performance.

3. **Optional Permanent Installation:** The inverter features mounting grommets for permanent installation. Use appropriate hardware (not included) to secure the unit in a suitable location, ensuring proper ventilation and accessibility.

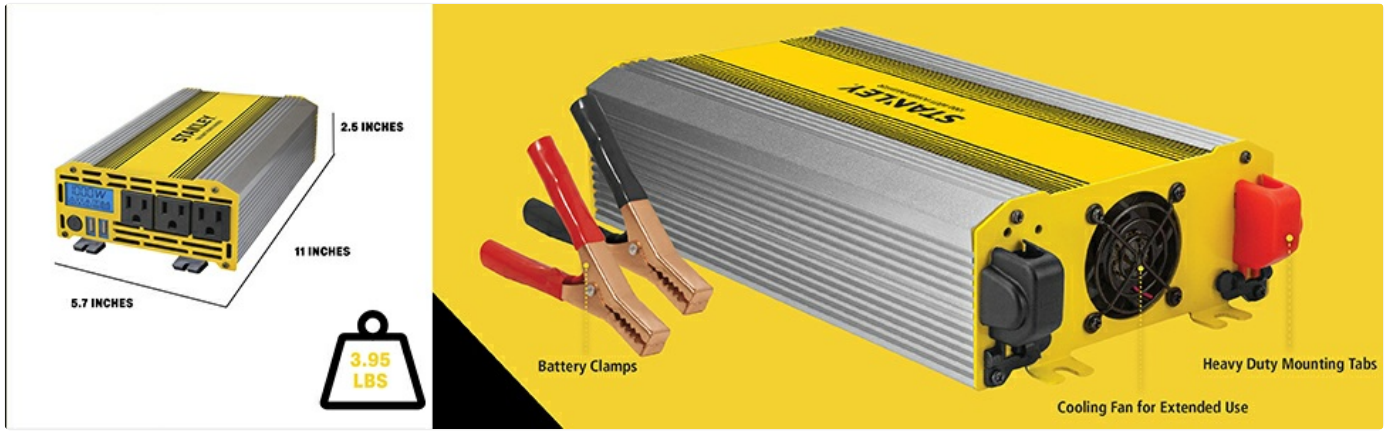


Figure 3: Rear view of the inverter showing battery clamp connections and the cooling fan.

6. Operating Instructions

1. **Power On:** Once connected to a 12V DC power source, press the ON/OFF button on the inverter. The LCD screen will illuminate, indicating the unit is active.
2. **Monitor LCD Display:** The LCD screen will show the current wattage being drawn, the vehicle battery's charge level, and any warning indicators.
3. **Connect AC Devices:** Plug your 120V AC appliances directly into the triple AC outlets on the inverter. Ensure the total wattage of all connected devices does not exceed 1000W.
4. **Charge USB Devices:** Connect your USB-powered devices to the dual 3.1A USB ports for charging.
5. **Power Off:** When finished, disconnect all devices from the inverter, then press the ON/OFF button to turn off the unit. Finally, disconnect the inverter from the 12V DC power source.



Figure 4: Inverter in use, powering a laptop from a vehicle battery.



Figure 5: Inverter providing power for tools at a worksite.

Video 1: An official STANLEY video explaining the function of a power inverter.

7. Maintenance

- **Cleaning:** Regularly wipe the exterior of the inverter with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Ventilation:** Ensure the cooling fan and ventilation openings are free from dust and debris. Blocked vents can lead to overheating.
- **Connections:** Periodically check all electrical connections to ensure they remain tight and free from corrosion.
- **Storage:** Store the inverter in a cool, dry place when not in use.

8. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Inverter does not power on	Loose connections, discharged battery, faulty ON/OFF switch.	Check all cable connections. Ensure vehicle battery is charged. Verify ON/OFF switch is in the 'ON' position.
Low battery warning on LCD	Vehicle battery voltage is too low.	Recharge the vehicle battery. Disconnect the inverter to prevent further discharge.
Overload protection activated	Connected devices exceed 1000W.	Reduce the total wattage of connected devices. Disconnect and reconnect devices one by one.
Overheating protection activated	Poor ventilation, excessive load, high ambient temperature.	Ensure inverter is in a well-ventilated area. Clear any obstructions from cooling fan. Reduce connected load. Allow unit to cool down.
Short circuit protection activated	Short circuit in connected device or wiring.	Disconnect all devices. Check devices and wiring for any short circuits.

9. Specifications

- **Model Name:** PI1000S
- **Brand:** STANLEY
- **Wattage:** 1000 watts (Continuous)
- **Input Voltage:** DC 12V
- **Output Voltage:** AC 120V
- **USB Output:** Dual 3.1 Amp ports
- **Product Dimensions:** 6.3 x 4.8 x 12 inches
- **Item Weight:** 2.95 pounds
- **Certifications:** ETL Certified

10. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official STANLEY website. Keep your proof of purchase for any warranty claims.

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