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› [EPEVER 1500W Inverter Pure Sine Wave Power DC 24V to AC 110V/120V Converter with LED Display 1500W-24V User Manual](#)

## EPEVER 1500 W DC 24 V

# EPEVER 1500W Pure Sine Wave Power Inverter

## USER MANUAL

### Introduction

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This manual provides essential information for the safe and efficient operation of your EPEVER 1500W Pure Sine Wave Power Inverter. This device converts DC 24V power to AC 110V/120V, suitable for a wide range of electronic devices. Please read this manual thoroughly before installation and use to ensure optimal performance and safety.

### Safety Precautions

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Always observe the following safety guidelines to prevent injury or damage to the inverter and connected equipment:

- Ensure proper ventilation around the inverter to prevent overheating. Do not block ventilation openings.
- Connect the inverter only to a DC 24V power source. Connecting to an incorrect voltage may cause damage.
- Avoid short circuits. Ensure all connections are secure and correctly polarized.
- Do not expose the inverter to water, rain, snow, or spray.
- Do not operate the inverter if it has been damaged in any way.
- Keep children away from the inverter.
- Installation should be performed by qualified personnel if you are unsure about any steps.
- Disconnect the power source before performing any maintenance or troubleshooting.

### Product Features

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The EPEVER 1500W Inverter is designed with several key features for reliable power conversion:

- **Pure Sine Wave Output:** Utilizes advanced SPWM technology for clean and stable power, suitable for sensitive electronics.
- **LED Display:** Provides clear indication of fault status and current working status.
- **Over Temperature Protection:** Features an integrated cooling fan to dissipate heat and automatically shuts down if overheating occurs.
- **Comprehensive Safety Protection:** Includes protection against over voltage, low voltage, overload, and short circuits.

- **Durable Construction:** Housed in a strong and durable aluminum alloy casing for enhanced protection against drops and impacts.
- **Wide Application Range:** Ideal for solar systems, household emergency lighting, vehicle-mounted systems, and small field power supplies.

## (1) DC input:



Battery

## (2) AC output:

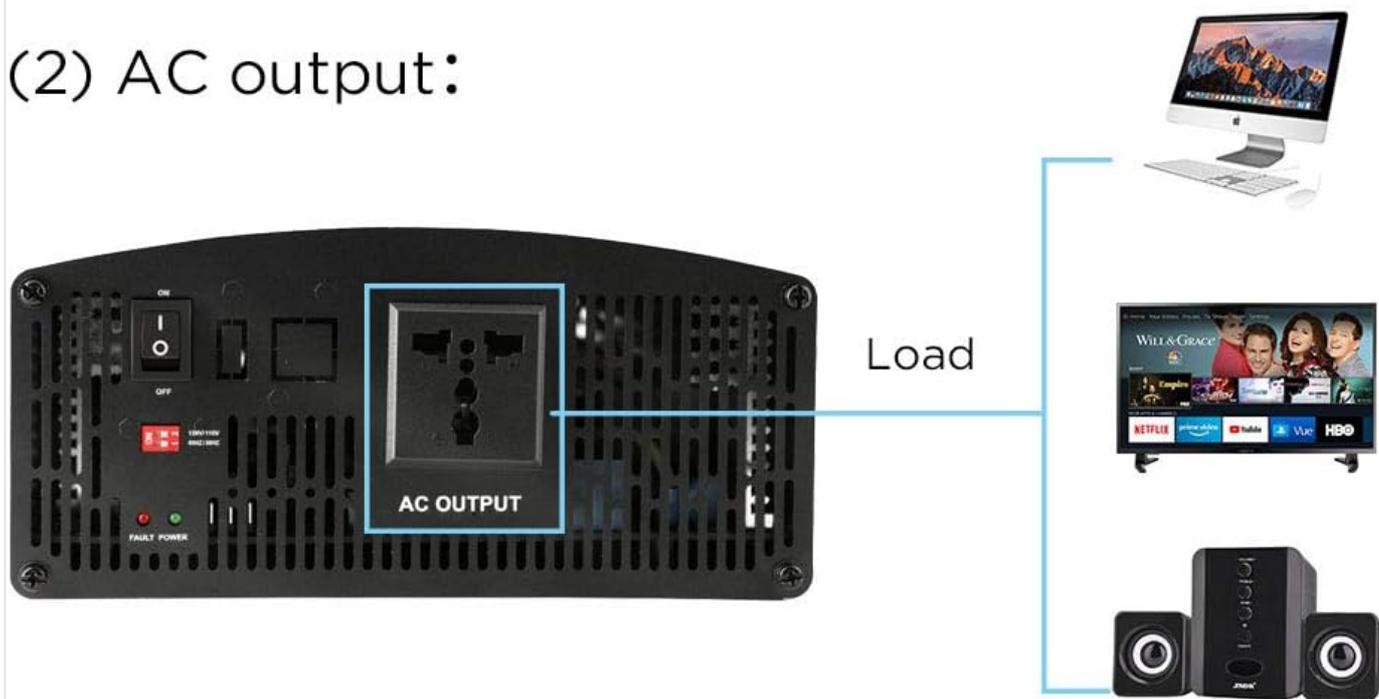


Diagram illustrating the key features and components of the EPEVER 1500W Pure Sine Wave Power Inverter, including DC input terminals, ventilation fans, AC output switch, fault indicator, working indicator, AC outlet, and mode switch.

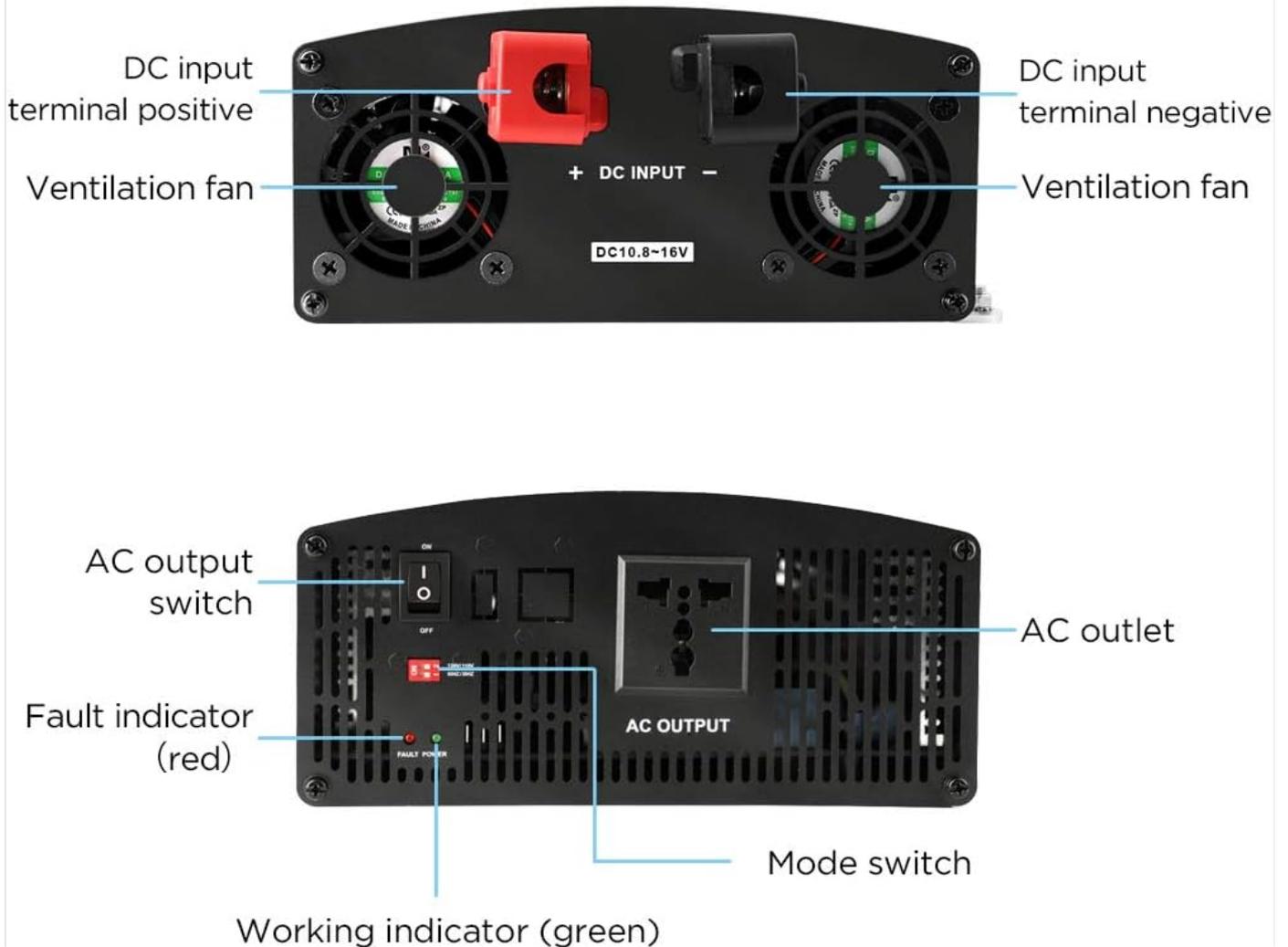
## Product Overview and Components

Familiarize yourself with the different parts of your EPEVER inverter:



Front view of the EPEVER 1500W Pure Sine Wave Power Inverter, showing the EPEVER logo, 1500W rating, and "Pure Sine Wave Power Inverter" text.

# Product Features



*Detailed view of the EPEVER 1500W Inverter's rear and side panels, highlighting the DC input terminals (positive and negative), ventilation fans, AC output switch, fault indicator (red), working indicator (green), AC outlet, and mode switch.*

## Setup and Installation

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

### 1. DC Input Connection:

Connect the DC input terminals of the inverter to a 24V battery or DC power source. Ensure correct polarity: connect the positive (+) terminal of the inverter to the positive terminal of the battery, and the negative (-) terminal of the inverter to the negative terminal of the battery. Use appropriate gauge cables for the power rating.

# Size

IP1500-21



*Diagram showing the connection of the inverter's DC input to a battery, illustrating the positive and negative terminals.*

## 2. AC Output Connection:

Once the DC input is securely connected, you can plug your AC appliances into the AC output outlet on the inverter. Ensure the total wattage of your appliances does not exceed the inverter's rated output power (1500W).

# Parameter

Item	IP1500-11	IP1500-21	IP2000-21	IP2000-41
Rated Input Voltage	12VDC	24VDC	24VDC	48VDC
Input Voltage Range	10.8~16VDC	21.6~32VDC	21.6~32VDC	43.2~60VDC
Input surge voltage	<32VDC	<44VDC	<40VDC	<80VDC
Output Voltage	<b>110VAC(±5%) 120VAC(-10%~+5%)</b>			
Output Frequency	50/60±0.1Hz			
Output Continuous Power	1200W		1600W	
Output Power 15 min.	<b>1500W</b>		<b>2000W</b>	
Surge power	2400W		3200W	
Power factor	0.2-1(VA lower than output continuous power)			
Output Wave	Pure sine wave			
Distortion THD	THD≤5%①			
Max. Efficiency	93%	94%	94%	
No-load current	<1.0A	<0.6A	<0.6A	<0.4A
RS485 Com. Port	5VDC/200mA			
Binding post	Φ10mm			
Mounting hole size	Φ5.5mm			
Working Temperature	-20℃~+45℃			
Storage Temperature	-35℃~ +70℃			
Humidity	< 95%(N.C.)			
Enclosure	IP20			
Altitude	< 5000 m (Derating to operate according to IEC62040 at a height exceeding 1000 m)			

①Test condition: Rated Input Voltage, Output Continuous Power, Resistive load.

Diagram illustrating how to connect various AC loads, such as a computer, television, and speakers, to the inverter's AC output.

### 3. Mounting:

Mount the inverter in a cool, dry, and well-ventilated area. Ensure there is sufficient space around the unit for airflow, especially near the ventilation fans.

## Operating Instructions

To operate your EPEVER inverter:

- Power On:** After all connections are secure, switch the AC output switch to the "ON" position. The green working indicator light should illuminate, indicating the inverter is operational.
- Monitoring:** Observe the LED display for operational status and any fault indicators.
- Power Off:** To turn off the inverter, first disconnect all AC loads, then switch the AC output switch to the "OFF" position.

## Applications

The EPEVER 1500W Pure Sine Wave Power Inverter is versatile and can be used in various scenarios:

- **Camping and Outdoor Activities:** Power your devices during camping trips or other outdoor adventures.
- **Road Trips and RVs:** Ideal for powering electronics in recreational vehicles.
- **Boat Trips:** Provides reliable AC power on boats.
- **Workshops:** Suitable for powering tools and equipment in a workshop setting.
- **Emergency Power:** A reliable backup power source during outages caused by hurricanes or storms.
- **Solar Systems:** Integrates well with solar power setups for off-grid or backup applications.

## Application



*Image depicting various applications of the EPEVER 1500W Inverter, including use with solar panels on rooftops, in recreational vehicles, and for street lighting.*

## Troubleshooting

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

Problem	Possible Cause	Solution
No AC Output / Inverter not turning on	Low DC input voltage Loose DC connections Overload protection activated Inverter switch is OFF	Check battery voltage; recharge or replace battery. Ensure all DC cables are securely connected. Reduce the load connected to the inverter. Turn the inverter switch to ON.
Fault indicator (red LED) is on	Overload Over-temperature Short circuit at AC output Input over/under voltage	Reduce connected load. Allow inverter to cool down; ensure proper ventilation. Check AC output for short circuits. Verify DC input voltage is within specified range (21.6~32V for 24V model).
Inverter shuts down frequently	Continuous overload Insufficient ventilation Weak battery	Ensure total load is within inverter's capacity. Clear obstructions around fans; improve airflow. Test and recharge/replace battery.

If the problem persists after attempting these solutions, please contact EPEVER customer support.

## Specifications

Technical specifications for the EPEVER 1500W Pure Sine Wave Power Inverter (Model: 1500 W DC 24 V):

Parameter	Value
Model	1500 W DC 24 V
Rated Input Voltage	DC 24V
Input Voltage Range	21.6 ~ 32VDC
Output Voltage	AC 110V/120V
Output Frequency	50/60Hz ±0.1Hz
Output Continuous Power	1500W
Output Power 15 min.	1500W
Surge Power	3000W
Waveform	Pure Sine Wave
Max. Efficiency	>90%
Operating Temperature	-20°C to +45°C
Dimensions (L x W x H)	13.11 x 10.59 x 5.67 inches
Item Weight	8.49 pounds
Enclosure Protection	IP20



*Angled view of the EPEVER 1500W Pure Sine Wave Power Inverter, showcasing its compact design and robust aluminum casing.*

## Maintenance

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To ensure the longevity and optimal performance of your EPEVER inverter, follow these maintenance guidelines:

- **Regular Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Ventilation Check:** Ensure that the ventilation fans and openings are free from dust, dirt, and obstructions. Clean them gently with compressed air if necessary.
- **Connection Inspection:** Regularly check all DC and AC connections to ensure they are tight and free from corrosion. Loose connections can lead to overheating and poor performance.
- **Storage:** If storing the inverter for an extended period, ensure it is in a cool, dry place, away from direct sunlight and extreme temperatures.

## Warranty and Support

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Your EPEVER 1500W Inverter comes with a standard manufacturer's warranty. Please refer to the warranty card included in your packaging for specific terms and conditions. The product package includes the 1500W Inverter and this User Manual.

For technical support, troubleshooting assistance, or warranty claims, please contact EPEVER customer service through their official website or the retailer from whom you purchased the product. Have your model number (1500 W DC 24 V)

and purchase details ready when contacting support.