



# DC to AC Power Inverter

- 3000 Watt [Continuous Power]
- 6000 Watt Peak Power

SWINV3000



**CAUTION: THIS INVERTER IS FOR USE WITH 12V BATTERIES ONLY.**

Read these instructions before operating this power inverter and retain for future reference!

USER MANUAL FOR 3000 WATTS POWER INVERTER  
USER'S MANUAL--Read before operating this equipment

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Your 3000 watts power inverter converts 12-volt vehicle battery power into 230 volts of AC power. You can use the inverter in your vehicle to operate many types of appliances that use AC power such as TVs, VCRs, portable computers, power tools and lights for emergency use.

The inverter works with your vehicle's engine turned on or off (accessory mode). It provides a continuous output of up to 3000 watts.

#### BASIC OPERATION

- Use the right operating voltage for both input and output of the inverter.
- Powering the inverter by connecting RED from inverter terminal to + of battery terminal and connect Black from inverter terminal to – of battery terminal.
- Insert the plug of your appliances into AC socket at the front of the inverter. Turn ON the power switch that is located at the front of the inverter, and the green LED will light as indicator that the unit at work.



#### INSTALLATION

##### Where to install

The power inverter should be installed in a location that meets the following requirements:

- a. Dry- Do not allow water to drip or splash onto the inverter.
- b. Cool- Ambient air temperature should be between 0 °C to 40°C, the cooler the better.
- c. Ventilation- Allow at least 2 inches of clearance around the inverter for airflow. Ensure the ventilation openings on the rear and front of the unit are not obstructed.
- d. Safety- Do not install the inverter in the same compartment as batteries or in any compartment capable of storing flammable liquids such as gasoline.

#### CABLES

DC to AC inverters require high amperage/low voltage DC power to low amperage/high voltage AC power. To operate properly connect inverter DC input terminals direct to batteries with heavier wires available. For our 3000Watts power inverter, we need 1 RED and 1 BLACK cables of 25mm<sup>2</sup> as the connecting cables.

#### CAUTION

The negative DC input of the power inverter is connected to the chassis. Do not install the power inverter in a positive ground DC system. As positive ground DC system has the positive terminal of battery connected to the chassis of the vehicle or to the ground point.

#### QUICK HOOK UP AND TESTING

If you would like to quickly hook up the power inverter and check its performance before going ahead with your installation, please follow these guidelines:

1. Unpack and inspect the power inverter, check to see that the power switch in the OFF position.
2. Connect the cable to the power input terminals on the rear panel of power inverter. The red terminal is positive (+) and black terminal is negative (-). Connect the cable into the terminals and tighten the wing nut to clamp the wires securely.
3. Connect the cable from the negative terminal of the inverter to negative terminal of the power source. Make a secure connection.

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**Caution**

Loosely tightened connectors result in excessive voltage drop and many cause overheated wires and melted insulation.

4. Before proceeding further, carefully check that the cable you have just connected connects from the negative terminal of inverter to negative output terminal of power source.
5. When connecting the inverter directly to your battery terminals, it is important to connect with right polarity.

**WARNING**

You must observe a spark when you make this connection since current may flow to charge capacitors in the power inverter. Do not make this connection in the presence of flammable fumes, as explosion or fire may result.

6. Set the power inverter switch to ON position. Check the indicator in the front panel of the inverter. The Green indicator will light.
7. Set the power inverter switch to OFF position, the indicator lights may blink and the internal alarm may sound momentarily. This is normal. Plug the test load into the AC receptacle on the front panel of inverter. Leave the test load switch off.
8. Set power inverter switch to the ON position and turn the test load on, the inverter should supply power to the load. If you plan to measure the true output R.M.S. voltage of the inverter, a meter such as FLUKE 87A, BACKMAN4410 or TRIPLETT 4200 must be used.

**CAUTION:**

- DO NOT USE THE INVERTER IN A POSITIVELY GROUNDED VEHICLE.

**RECOMMENDATION**

- If the power inverter makes a beeping sound, turn OFF the power inverter and disconnect all appliances from inverter and disconnect the inverter from the power supply. The beeping sound is simply the low battery warning, which indicates that the voltage of the battery power supply is getting low. Please restart the vehicle engine before operating the power inverter.
- When you are not using the inverter, turn the power switch to OFF and disconnect the inverter from the power supply.
- Disconnect the inverter when starting the vehicle's engine.

**CAUTION:**

THE FOLLOWING OPERATIONS WILL DAMAGE THE UNIT:

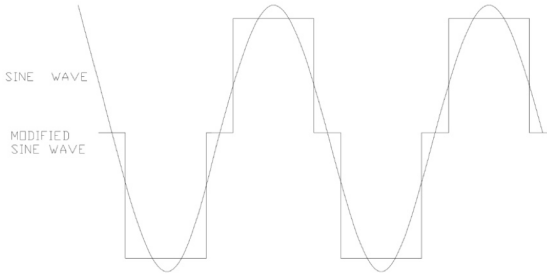
- REVERSE POLARITY BY CONNECTING THE WIRES TO THE INCORRECT TERMINALS.
- CONNECTING THE BATTERY CHARGER TO REPLENISH BATTERY WITHOUT DISCONNECTING THE INVERTER FIRST.
- CONNECTING THE INVERTER TO POWER SOURCE GREATER THAN 15- VOLT DC.
- OPERATING THE INVERTER AND BATTERY IN OR AROUND WATER.

THE INVERTER WILL WORK WHEN IT IS BEING CONNECTED TO SOLAR PANELS FOR CHARGING PURPOSE

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**MEASURING THE AC VOLTAGE**

The output waveform of the AC output is a MODIFIED SINE WAVE. To measure the AC output voltage, you must have a TRUE RMS VOLTMETER.



**SAFETY PRECAUTION**

The high voltage inside the unit is the same type of power as our electrical outlets at home.

Do not let the cord of the inverter or any appliance's cord get wet.

Do not operate the inverter in or around water. The voltage of the unit makes electrical shock hazard if operated in wet conditions.

Do not connect the AC inverter directly to another AC power source.

Keep it away from children, the inverter produces power just like your AC wall outlets at home and should be treated serious.

Allow at least 2 inch of clearance around the inverter for airflow.

If you operate the inverter in a moving vehicle, you need to secure the inverter to prevent it from shifting around while the vehicle is moving.

If there is anything wrong with the inverter, disconnect from 12V power supply.

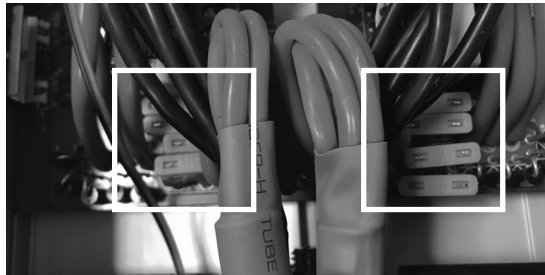
**BEFORE ANY OTHER TROUBLE SHOOTING. ALWAYS CHECK THE FUSES AND REPLACE IF NECESSARY.**

**TROUBLE SHOOTING**

| TROUBLE/INDICATION                         | POSSIBLE CAUSE                 | SUGGESTED REMEDY   |
|--|--------------------------------|--|
| No AC output-the Green LED light is not on | •DC input below 10 Volts       | •Recharge or replace battery   |
| No AC output --inverter is cold            | Poor connect with the battery. | •Disconnect load from inverter. Reconnect the unit to the battery terminals. |
| Shut down after operating for a long time  | •Over-temperature              | •Disconnect the inverter and put aside for while to cool down the unit.      |
| Red LED light &/or audible beeping.        | Fuse could have been blown     | Check ALL the fuses and replace if necessary.                                |

**TO CHECK THE FUSES**

Disconnect the inverter from the power supply. Loosen and remove the screws on the endplates of the unit, remove the top plate to reveal inside the inverter. Locate the fuses as indicated opposite, check and replace if necessary.



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### MAINTENANCE

Very little maintenance is required to keep the inverter operating properly.

### DESCRIPTION

6000W Peak power- Allow you to power appliances that require a large amount of initial power to work (such as many TVs and motor-power equipments).

Low Battery Alarm- the inverter sounds an audible alarm and turns itself off if the source battery becomes too low.

Auto shutdown/reset protection--- the inverter temporarily shuts itself down to protect itself from overheating.

Overload/Short Circuit Protection--- the inverter automatically turns itself off if the connected load is too high or if it shorts.

Fuse—The inverter comes with fuse/s already installed inside.

### HEAT DISPERSAL

The inverter generates heat while it is working. This is not a malfunction. However, if the inverter gets too hot while working, it will turn off by itself.

Position the inverter where air flows freely around it to allow the heat to disperse.

The inverter's thermal protection prevents it from operating when its temperature exceeds 140+/-9 °F (60+/-5 °C).

### SPECIFICATION

| Name                 | Description          |
|----------------------|----------------------|
| Input                | 12V(10-15V) DC       |
| Output               | 230VAC               |
| Output frequency     | 50Hz                 |
| Output waveform      | Modified Sine Wave   |
| Continuous power     | 3000 watts           |
| Surge power          | 6000 watts           |
| With USB output      | DC5V 1000mA          |
| Best efficiency      | Approx. 85%          |
| No load current      | <1A                  |
| Battery low alarm    | 10.5+/-0.5V DC       |
| Battery low shutdown | 10+/-0.5V DC         |
| Thermal shutdown     | 140+/-9°F (60+/-5°C) |
| Product dimension    | 490x192x100mm        |



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**WARRANTY:** The 12 month warranty on this product will need to be activated within 30 days of purchase, please go to our web site and click on the “Warranty” link and enter your details on the warranty screen. [www.streetwizeaccessories.com](http://www.streetwizeaccessories.com).

## Disposal and recycling

The equipment is supplied in packaging to prevent it from being damaged in transit. The box and recyclable materials in this packaging can be reused or recycled. Any plastic packaging must be disposed of in accordance with current local authority procedures.



The WEEE symbol  on this product means that the battery charger should be ethically dismantled or recycled to minimise environmental impact. Please check with your local authority for more information.



**FOR USE ONLY IN A COVERED ENVIRONMENT**

### Important:

#### Additional Safety Information

This DC to AC Power Inverter is NOT intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or have been given instruction concerning use of the DC to AC Power Inverter by a person responsible for their safety.



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