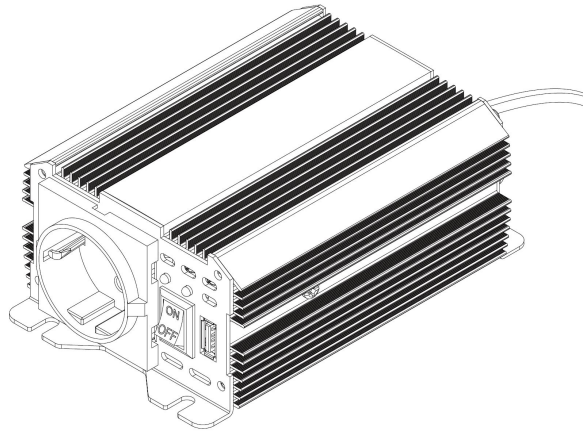


# SONOPOWER

## USER MANUAL - IPS150MSW 150W Power Inverter



### FEATURES

- Converts DC voltage to AC voltage.
- Designed using advanced international circuitry, it offers a compact size, easy operation, stable performance, and high efficiency.
- Low Voltage Protection
- Overvoltage Protection
- Overload Protection
- Overheat Protection
- Short Circuit Protection

### OPERATING INSTRUCTIONS

1. Insert the inverter's cigarette lighter plug into your car's cigarette lighter socket.
2. Wait for the green indicator light to confirm the inverter is ready.
3. Plug your device into the AC outlet on the inverter.
4. The USB port can also be used to charge external devices such as phones or tablets.

### IMPORTANT NOTE

Always connect the inverter in the correct order.

First, plug the DC connector into the car's cigarette lighter socket.

Only after the inverter is powered on should you connect your device to the AC outlet.

# SONOPOWER

## WARNING

1. Do not use the device while the vehicle engine is off. Doing so may drain the battery.
2. Do not operate the device in an overloaded state. For optimal performance and longer lifespan, we recommend that continuous power usage does not exceed 80% of the inverter's rated capacity.
3. Ensure proper airflow by operating the device in a ventilated environment. Blocking the ventilation openings or cooling fan may cause overheating and damage.
4. To avoid electric shock, do not operate the device with wet hands.
5. For safety, do not allow children to access or operate the device. This may cause injury or electric shock.
6. Avoid inserting any foreign materials or objects into the device, as this may cause damage or electric shock.
7. The device will shut down automatically in the event of overload, short circuit, overheating, overvoltage, or low voltage. Once the issue has been resolved, unplug the inverter from the cigarette lighter socket. Then reconnect it to the car and the appliance in the correct order.

## SPECIFICATIONS

Model:	IPS150MSW
DC Input:	12V (11V-15V)
AC Output:	230V $\pm$ 10%
Output Frequency:	50Hz $\pm$ 3Hz
Rated Power Output:	150W
Peak Power Output:	300W
USB Output:	5V DC, 2100mA
Output Waveform:	Modified Sine Wave
Efficiency:	>85%
Idle Current Draw:	0.4A (12V DC)
Working Temperature:	5 - 35°C
Cooling Method:	Temperature Controlled Fan
Low Voltage Alarm:	10.2V - 10.8V DC
Low Voltage Shutdown:	9.2V - 9.8V
Overvoltage Shutdown:	15V - 16V
Overload Shutdown:	180W - 240W
Fuse:	20A (In Cigarette Socket)

## TROUBLESHOOTING

Protection Type	LED Indicator	Alarm	AC Output	Solution
Input Low Voltage	Green ON Red ON	Yes	No	Restore the DC input voltage to the normal operating range.
Input Overvoltage	Green ON Red ON	No	No	Adjust the DC input voltage back to the acceptable range.
Overload Protection	Green ON Red ON	No	No	Reduce the connected load to within the rated power.
Overheat Protection	Green ON Red ON	Yes	No	Allow the device to cool down to the safe operating temperature range.
Short Circuit Output	Green ON Red ON	No	No	Fix the short circuit, then disconnect and reconnect the inverter properly.