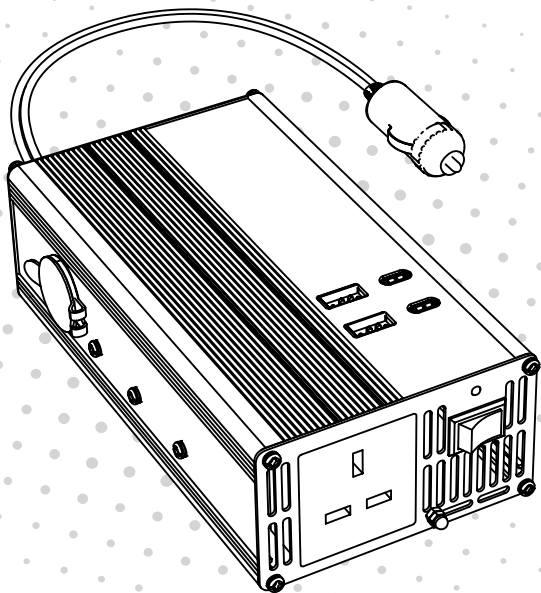




POWER INVERTER

GENERAL USER MANUAL



Thank you very much for purchasing our inverter. Before using the inverter, please read this manual carefully and use it correctly. After reading it, please put it in a safe place and keep it well.

Product Information

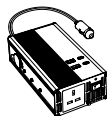
◆ Product Specification

Model Number	300W/12V	600W/12V
Rated Power	300W	600W
Overload Protection Power	350W±30W	600W±50W
Peak Power	600W	1200W
Input Voltage	12VDC	
Output Voltage	230VAC±5%	
Type-c Output	PD30W*2(5V3A,9V3A,12V2.5A,15V2A,20V1.5A)	
USB Output	QC3.0 18W*2(5V3.4A,9V2A,12V1.5A)	
Cigarette Lighter Socket	10A	
Output Socket	15A*1	
Frequency	50Hz±2Hz	
Output Waveform	Modified Sine Wave	
Output Efficiency	Maximum 93%	
No-load Current (<)	0.2A	0.4A
Cooling Method	Intelligent Cooling Fan	
Fan Start-up Condition	Temperature up to 45°C	
Operating Temperature	(-10°C to 60°C) / (14 °F to 140 °F)	
Storage Temperature	(-30°C to 70°C) / (-22 °F to 158 °F)	
Humidity	Maximum humidity is 90%, no condensation occurs	
Dimensions	16.5*11*5.9CM / 6.4*4.3*2.3IN	22.2*11*5.9CM / 8.7*4.3*2.3IN
Weight	0.7KG/1.5LB	0.85KG/1.8LB

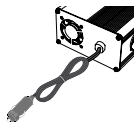
Note: Due to continuous product improvements, the technical specifications in this manual are subject to change without notice.

◆ Package Content

● 300W Power Inverter



300W Inverter



Cigarette Lighter Cable
(13AWG 80cm/2.6ft)



General User Manual



40A Fuse*1



Ground Wire

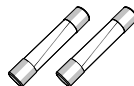
● 600W Power Inverter



600W Inverter



Cigarette Lighter Cable
(13AWG 80cm/2.6ft)



Cigarette Lighter
Fuse*2



Battery Clip Cables
(6AWG 73cm/2.4ft)



General
User Manual



40A Fuse*2



Ground Wire

⚠ NOTE:

- ① The cigarette lighter cable of the 300W inverter is directly connected to the machine and is not removable.
- ② Before use, if any accessories are missing or damaged, please feel free to contact us via our official email.

1. Safety Precautions

◆ 1.1 Connection Guidelines



The inverter is only suitable for 12V battery systems.



If the product emits smoke or makes a popping sound upon first connection and use, immediately stop using it and disconnect the product from the battery and appliances.



Avoid accidental startup. Ensure the switch is in the off position before using or connecting any appliances. Disconnect the battery and inverter when not in use for extended periods.



Reverse polarity connections may cause fuse blowouts and could permanently damage the inverter. Using reverse polarity connections will void your warranty.



If the internal temperature is too high, the device will shut down. Restart the inverter after it has cooled down.



Use only manufacturer-specified accessories/parts.



Install and operate the inverter only as described in this user manual.

◆ 1.2 Safety Warnings



The inverter poses a risk of electric shock or electrocution — Be careful when you use the inverter, because its output is 110V like that of the home AC.



Do not connect inverter to damaged or wet wiring appliances.



Do not attempt to connect or disconnect the power plug of the connected device when your hands are wet, as this can risk electric shock.



Do not insert foreign objects into the AC outlets, USB ports, or ventilation openings of the inverter.



Do not connect the inverter's AC output directly to an electrical breaker panel/load center powered by the utility grid or a generator.



Do not install the inverter in an area accessible to children.

◆ 1.3 Safety Notice



When using an inverter in the vehicle, check your vehicle's manual for maximum power and recommended output.



Unplug the appliance from the inverter socket before repairing it.



Do not attempt to connect or set up the inverter or its components while driving. Distraction from the road can lead to serious accidents.



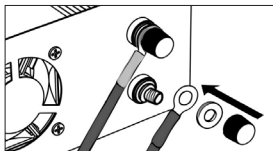
Be aware that this inverter cannot power high-wattage appliances or devices that generate heat, such as coffee makers, hair dryers, microwaves, and toasters.

3. Operation Method

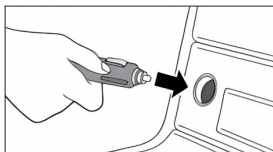
! CAUTION

- Before connecting any electronic equipment, please make sure that the power switches of the inverter and the connected equipment are turned OFF.
- When shutting down the inverter, be sure to disconnect all connected electronic devices first. To ensure the safety of electricity use, it is recommended to modify the circuit or maintain the inverter under the condition of complete power failure.

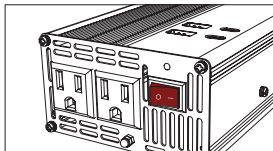
◆ 3.1 Connect the Cigarette Lighter



① Connect the red cable to the positive DC "+" extreme of the inverter, while connecting the black cable to the negative DC "-" extreme of the inverter. Be sure to use a washer between the two and tighten the nut firmly.



② Insert the cigarette lighter plug into the car cigarette lighter socket.

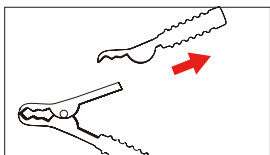


③ Turn on the inverter switch to provide normal power supply.

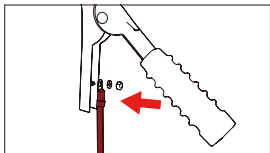
! NOTE:

The first step only applies to the 600W inverter.

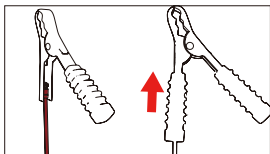
◆ 3.2 Connect the Battery Clip



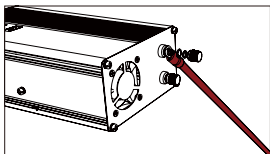
① Remove the battery clip protective cover.



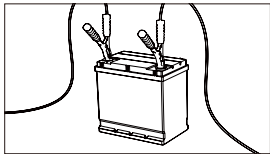
② Connect the red wire (M5 terminal) to the red battery clip, pass the screw through the hole, secure it at the bottom with a washer and bolt, and tighten using a tool. Repeat the same steps to connect the black battery clip.



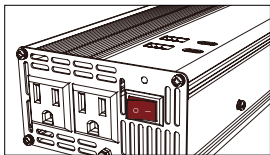
③ After connection, use pliers to secure the clip around the cables. Then, make sure to cover the insulation protective sleeve.



④ Connect the red cable (M6 terminal) to the inverter's DC positive terminal and connect the black cable (M6 terminal) to the inverter's DC negative terminal. Be sure to use washers between the cables and nuts, and tighten the nuts securely.

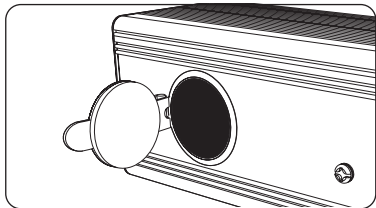


⑤ Connect the red battery clip to the positive terminal of the battery, and connect the black battery clip to the negative terminal of the battery.



⑥ Turn on the inverter switch to power up the system.

◆ 3.3 Cigarette Lighter Socket



Cigarette Lighter Socket: DC 12V/10A

Output Power: 120W–180W

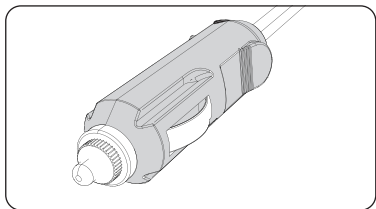
The inverter adds an additional cigarette lighter expansion port, enabling you to simultaneously connect more electronic devices such as chargers, navigation devices, phones, tablets, and more. Enhance your driving experience with added convenience and comfort.



NOTE:

The cigarette lighter expansion port is compatible with input voltages ranging from 12V to 24V, but since our inverter is set at 12V, this port can only be used with a 12V car charger.

◆ 3.4 Cigarette Lighter Adapter



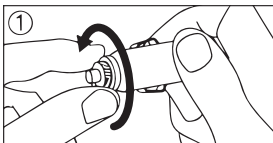
300W Cigarette Lighter Voltage:
DC 12V/25A

600W Cigarette Lighter Voltage:
DC 12V/15A

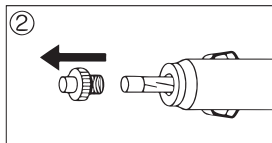
Max Power (AC port): 150W

For safety reasons, do not use cigarette lighter on AC appliances with a rated power of more than 150W. If you use more than the allowed output power, the car fuse may blow. Be sure to check before use.

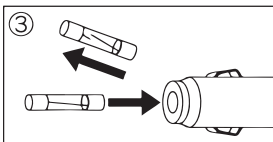
● Procedure for replacing a fuse for a cigarette lighter



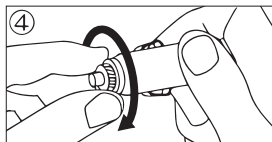
① Unscrew the power cover counter-clockwise.



② Remove the cover head.



③ Take out the fuse and replace it, the fuse is 15A (glass tube).



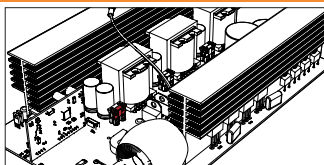
④ Press the head of the cover and screw the power plug clockwise.



NOTE:

- Be careful, the power plug is very hot after use.
- The cigarette lighter of the 300W inverter uses an improved short-circuit technology that eliminates the need for fuse replacement.
- The cigarette lighter of the 600W inverter is equipped with replaceable fuses.

◆ 3.5 Fuse Replacement Method



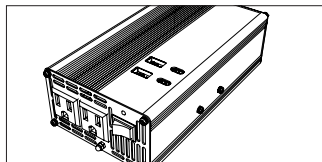
① Removing the inverter casing.



② Check one by one, find the blown fuse and pull it out.



③ Replace a new fuse and insert it.



④ Tighten the inverter casing.