Your pure sine wave power inverter converts 12-volt vehicle battery power into

☐ 110-120V/60Hz ☐ 220-240V /50Hz 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， camping use. Also, it can operate the higher-end equipments and is ideal for operating sensitive loads.

Inverter operating equipments reference chart

Audio / Video Equipment	**Power**	**150W**	**300W**	**600W**	**1000W**	**1500W**	**2000W**
12 Inch colour TV	16W	✓	✓	✓	✓	✓	✓
Games console	20W	✓	✓	✓	✓	✓	✓
Satellite TV receiver	30W	✓	✓	✓	✓	✓	✓
Sharp HiFi stereo 4-head VCR	40W	✓	✓	✓	✓	✓	✓
Kenwood CD changer / mini system	60W	✓	✓	✓	✓	✓	✓
19 Inch colour TV	80W	✓	✓	✓	✓	✓	✓
Quasar 20 Inch TV/VCR combo	110W	✓	✓	✓	✓	✓	✓
27 Inch colour TV	170W		✓	✓	✓	✓	✓
RCA 240W RMS stereo amplifier	250W		✓	✓	✓	✓	✓
Home theatre system	500W			✓	✓	✓	✓
Domestic Appliance	**Power**	**150W**	**300W**	**600W**	**1000W**	**1500W**	**2000W**
Singer sewing machine	99W	✓	✓	✓	✓	✓	✓
Holmes halogen worklight	100W	✓	✓	✓	✓	✓	✓
Clothers washer (horizontal)	250W		✓	✓	✓	✓	✓
Blender	350W			✓	✓	✓	✓
Electric blanket	400W			✓	✓	✓	✓
Dishwasher - cool dry	700W				✓	✓	✓
Hair curler	750W				✓	✓	✓
Microwave - 750W	900W				✓	✓	✓
Vacuum cleaner	900W				✓	✓	✓
Coffeemaker	1200W					✓	✓
Dishwasher - hot dry	1450W					✓	✓
Trash compactor	1500W						✓
Large Hob	2000W						✓
Home Office	**Power**	**150W**	**300W**	**600W**	**1000W**	**1500W**	**2000W**
Fax machine - standby	5W	✓	✓	✓	✓	✓	✓
Inkjet printer	35W	✓	✓	✓	✓	✓	✓
Toshiba satellite laptop computer	40W	✓	✓	✓	✓	✓	✓
IBM thinkpad	42W	✓	✓	✓	✓	✓	✓
Fax machine - printing	50W	✓	✓	✓	✓	✓	✓
Desktop computer	55W	✓	✓	✓	✓	✓	✓
17 Inch colour monitor	100W	✓	✓	✓	✓	✓	✓
Bell fax, auto feed with cutter	165W		✓	✓	✓	✓	✓
Laser printer	900W				✓	✓	✓

Lighting	**Power**	**150W**	**300W**	**600W**	**1000W**	**1500W**	**2000W**
100W incandescent light	100W	✓	✓	✓	✓	✓	✓
Regent twin work light	900W				✓	✓	✓
Regent contractor grade work light	1066W					✓	✓
Power tools	**Power**	**150W**	**300W**	**600W**	**1000W**	**1500W**	**2000W**
Stanley glue gun	20W	✓	✓	✓	✓	✓	✓
Black & decker buffer	77W	✓	✓	✓	✓	✓	✓
Dremel moto tool	99W	✓	✓	✓	✓	✓	✓
Craftsman rotary power tool	126W	✓	✓	✓	✓	✓	✓
Weller soldering gun	132W	✓	✓	✓	✓	✓	✓
Makita Fnishing sander	176W		✓	✓	✓	✓	✓
Iron smith 5 Inch bench grinder	180W		✓	✓	✓	✓	✓
Craftsman industrial sander	220W		✓	✓	✓	✓	✓
Makita 4 Inch disc grinder	529W			✓	✓	✓	✓
Jepson 1/2 Inch reversible drill	620W				✓	✓	✓
Dewalt H.D. reciprocating saw	720W				✓	✓	✓
Grinder, 1/2hp	1080W					✓	✓
McCulloch 14 Inch chain saw	1200W					✓	✓
Worm drive 7 ¼ Inch saw	1800W						✓
Table saw 10 Inch	1800W						✓

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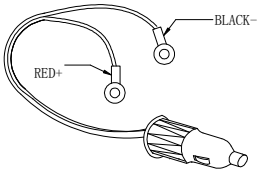
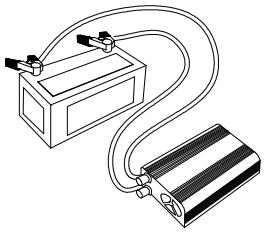
BASIC OPERATION

- Use the right operating voltage for both input and output of the inverter.
- Powering devices with power rating:
  - Less than 150 Watts by connecting the cigarette lighter plug into the vehicle's cigarette lighter socket.



(picture for reference only)

  - More than 150 Watts by connecting RED terminal from inverter to + of battery terminal and connect BLACK terminal from inverter to – of battery terminal.



(picture is just for your ref. real product may be different)

- 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 light will light as indicator that the unit at work.

CAUTION:

- *do not use the inverter in a positively grounded vehicle.*
- *do not power more than 150 watts when the power inverter is connected to the car cigarette lighter socket power supply. doing so might damage your car's fuse.*

RECOMMENDATION

- If the power inverter makes 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 switch to OFF and disconnect the inverter from the power supply.
- Disconnect the inverter when starting the vehicle's engine.

BATTERY USE

TO avoid over-discharging your vehicle's battery, you should run your engine for 10-20 minutes to recharge the vehicle's battery after 2-3 hours of operating the inverter.

If you choose to connect the vehicle directly to your battery terminals, it is important to connect with right polarity (Connect RED from inverter to + of battery terminal and connect BLACK from inverter to – of battery terminal)

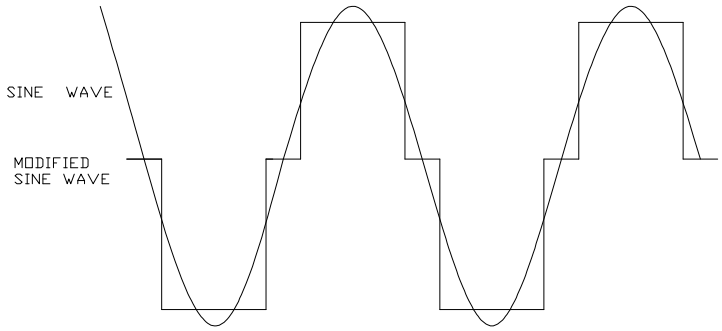
CAUTION:

the followings operation 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.*
- *operating the inverter and battery in or around water.*

MEASURING THE AC VOLTAGE

The output waveform of the AC output is a Pure Sine Wave.



SAFETY PRECAUTION

Do not open the case of the inverter. 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 seriously.

Allow at least 1 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 all of the power.

TROUBLE SHOOTING

TROUBLE/INDICATION	POSSIBLE CAUSE	SUGGESTED REMEDY
No AC output-the Green LED light is not on	DC input below 10 Volts(12-volt input)	•Recharge or replace battery
No AC output --inverter is cold	Poor connect with the battery.	•Disconnect load from inverter. Reconnect the unit to power source.
Shut down after operating for a long time	•Over-temperature	•Disconnect the inverter and put aside for while to cool down the unit.
Shut down after operating short time, inverter is cold	Over-Load	Reduce the wattage of the inverter's load

MAINTENANCE

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

PROTECTION FEATURES

Low Battery alarm and shutdown - the inverter sounds and audible alarm then 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.

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 60+/-5 °C.

SPECIFICATION

Name	Description
Input	12V (10-15V) DC
Output	☐110-120VAC ☐220-240VAC
Output frequency	☐60Hz ☐ 50Hz
Output waveform	Pure Sine Wave
THD	less than 4%
Continuous power	150W/300W/600W/1000W/1500W/2000W
Surge power	300W/600W/1200W/2000W/3000W/4000W
Best efficiency	Approx. 90%
Battery low shutdown	10+/-0.5VDC
Battery low alarm	10.5+/-0.5VDC
High voltage shutdown	15.5+/-0.5VDC
Thermal shutdown	140+/-9°F (60+/--5°C)
AC output sockets	☐American socket ☐ Shuko socket ☐SAA socket ☐ Universal socket

CAUTION:

ALWAYS PLACE THE INVERTER IN AN ENVIRONMENT WHICH IS:

A) WELL VENTILATED

B) NOT EXPOSED TO DIRECT SUNLIGHT OR OTHER SOURCE OF HEAT

C) OUT OF REACH OF CHILDREN

D) AWAY FROM WATER/MOIDTURE,OIL OR GREASE

E) AWAY FROM ANY FLAMMABLE SUBSTANCE