

150W/300W
Pure Sine Wave
Power Inverter

Model No. WT-15SN-12
WT-15SN-24
WT-30SN-12
WT-30SN-24

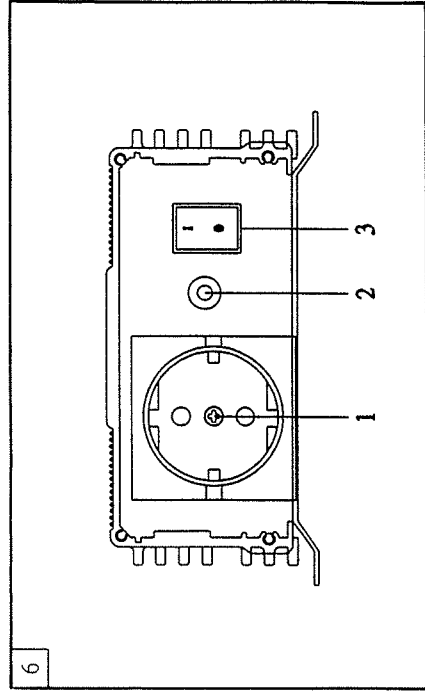
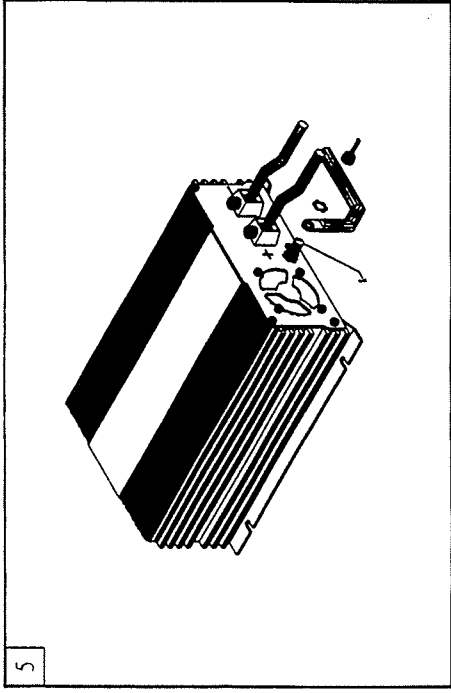
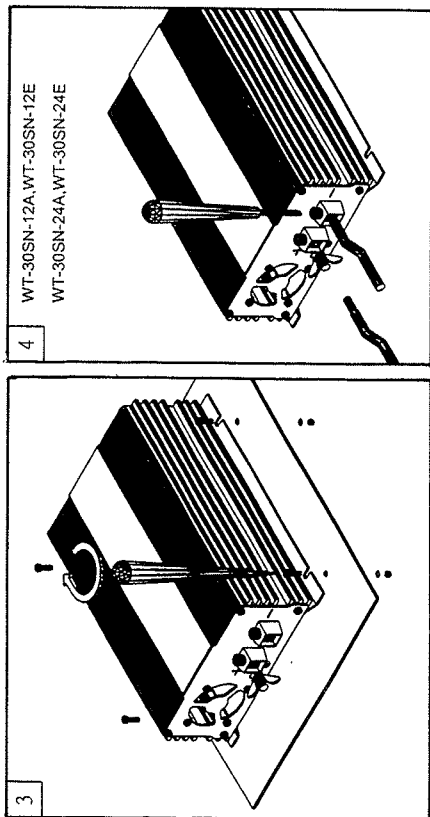
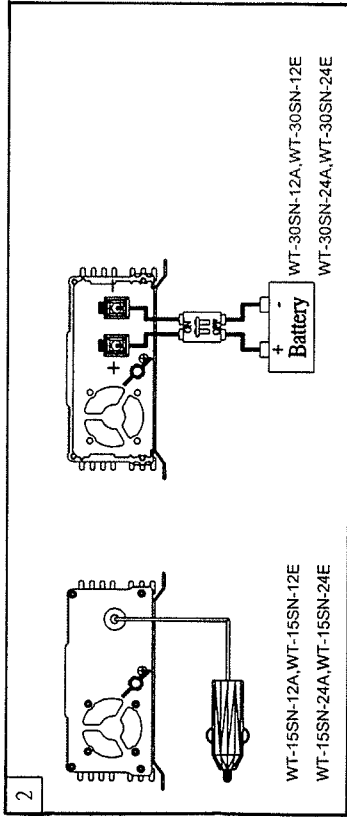
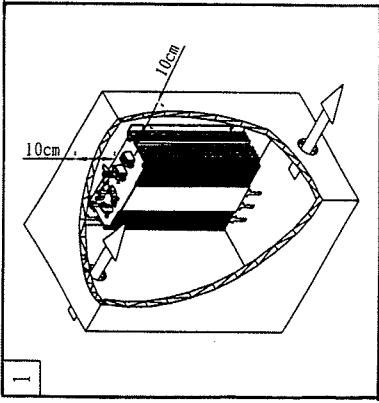
User's Guide

Dear Customer,

Thank you for your preferred choice in purchasing our inverters. Our power inverter series are designed to be your best companion at home, in the office, when traveling, outdoors camping, at sea, etc. Low DC current is converted into AC current to run your household and office appliance. That is why our inverter series can be used to operate most TVs, VCRs, sound systems, PCs & laptops, refrigerators, handy tools, among others. Definitely a must to stay in control whenever and wherever you are.

You will have to install and use inverter properly, and according to our operating procedures, to maximize its advanced technology on dependable operation and years of reliable service. Please read to content of this User's Guide carefully and file for future reference.

Sincerely yours,



GENERAL SAFETY, INSTALLATION, & OPERATING GUIDELINES

GENERAL SAFETY

1. Never attempt to operate the inverter from any power source other than a 12V or 24V battery.
2. Read this General Safety, installation, and Operation Guidelines carefully before using your inverter and strictly follow the instructions.
3. For 300W inverter, failure to properly connect wiring between inverter and power source will result in reverse polarity. Reverse polarity will blow the internal fuse in the inverter and permanently damage said inverter. Damage caused by reverse polarity is not covered under our warranty. 150W inverter directly plug into cigarette lighter socket of auto for connection. (fig. 2, page 2)
4. Loose connections can result in a severe decrease in voltage which may cause damage to the wires and insulation.
5. Keep inverter and 12V or 24V battery (power source) away from any inflammables to avoid possible fire or explosion. Note that it is normal to experience sparks during connection between the Positive (+) Terminals of the inverter and 12V or 24V battery. This is caused by the current flow to charge the capacitors within the inverter.
6. Always properly ground the inverter before operation to avoid possible electrical shock. Connect the earth cable to the chasis terminal (fig. 5, page 3).
7. Make sure that the power consumption of the appliance or equipment you wish to operate is compatible with the capacity of the inverter.
8. Monitor battery charger temperature for approximately ten (10) minutes when attempting to recharge battery chargers. Immediately disconnect when battery chargers become abnormally warm.
9. When operating the inverter with a car or marine battery, start the engine every 30 to 60 minutes and let it run for approximately 10 minutes to recharge the battery.
10. In the every event of a continuous audible alarm or automatic shut-off, immediately turn the inverter power switch to OFF position. Do not restart the inverter until the source of the problem has been identified and corrected.
11. Always disconnect the inverter when not in use.
12. Do not expose the inverter to moisture.
13. Avoid placing inverter near sources of heat or under direct sunlight.
14. Make sure inverter is well ventilated during use. At least, keep a free space of 10 cm around the inverter (fig. 1, page 2).

GENERAL SAFETY, INSTALLATION, & OPERATING GUIDELINES

Pre-installation Testing

This process is to determine whether your inverter will operate a specific equipment or appliance.

The inverters of 150W and 300W are designed to automatically protect and limit output power on setting rating when overloading or short circuit and the inverter performs manual-recovery as overloading or short circuit condition released.

Testing equipment/appliance with start up load ratings comparable to the maximum wattage rating of your inverter will not damage it.

Some refrigerators, freezers, pumps and other similar equipment and appliances require very high start up loads to operate. Before attempting to power up this type of equipment or appliance, make sure that all connections have been properly made and that the power source is fully charged. Then, follow step by step procedures for Operational Guidelines on page 4.

If voltage indicator confirms that the input voltage is within an acceptable range. Turn inverter switch OFF, ON, OFF, and ON again in quick succession. If unsuccessful, it is likely that the inverter model does not have the required start up capacity to operate the equipment or appliance specified.

Installation

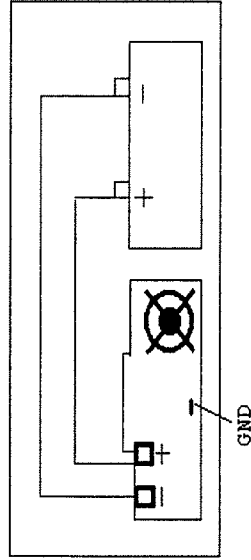
1. Location Set-up. Power inverter unit/s will have to be installed on cool, dry, and well ventilated area. Away from inflammables.
2. Cables. Make sure to use the correct cables. A chart is provided below, for your reference:

Max. watt Output	Amps Req'd..	Wire Gauge
150W	15A	#14
300W	30A	#10
3. Grounding. Connect Chassis Ground Terminal Lug to earth ground or vehicle chassis using #8 AWG wire.

GENERAL SAFETY, INSTALLATION, & OPERATING GUIDELINES

Operational Guidelines

- Step 1 Remove inverter from its packaging. Check to verify that the ON/OFF Switch is in the OFF position (fig. 6.3, page 3).
- Step 2 Connect the cables to the Power Input Terminals located at the rear part of the inverter. Do not tighten these screws excessively.
- Step 3 Connect the cable securely from the Negative Terminal (-) of the inverter to the Negative Terminal (-) of the 12V or 24V power source (fig. 4, page 2).
- Step 4 Connect the cable securely from the Positive Terminal (+) of the inverter to the Positive Terminal(+) of the 12V or 24V power source.
- Step 5 Step 3 and 4 for 300W inverter. For 150W inverter, please directly plug into cigarette lighter socket of auto.
- Step 6 Set power switch to ON position. Check the status of the LED indicators. LED indicators should be lighted.
- Step 7 Set power switch to OFF position.
- Step 8 Plus the equipment / appliance into the AC receptacle at the front panel of the inverter (fig. 6.1, page 3). Leave the equipment / appliance switched OFF.
- Step 9 Set the power switches of both inverter and equipment / appliance, respectively, to ON position. (The inverter is now ready to transfer power to the equipment / appliance.)



TECHNICAL SPECIFICATION REFERENCE

150W Pure Sine Wave Inverter	
Maximum Continuous Power	150W
Maximum Surge Capability (Peak Power).....	300W
No Load Current Draw	
● 12V DC.....	> 0.5A
● 24V DC.....	> 0.4A
DC Input Voltage Range	
● 12V DC.....	10.5V – 15V
● 24V DC.....	21V – 30V
AC Output Voltage Range.....	115V/230V +/- 5%
Total Harmonic Distortion.....	< 3%
Frequency (may be as specified).....	50Hz or 60Hz
Efficiency.....	85%
Low Battery Alarm	
● 12V DC.....	10.5V
● 24V DC.....	21V
Low Battery Shut-Off	
● 12V DC.....	10V
● 24V DC.....	20V
Wave Form.....	Sine Wave
Dimensions (L x W x H).....	210x147 x66 mm
Net Weight.....	1.28 kgs

Model No. WT-15SN-12A : 12VDC / 115VAC / 150W
 WT-15SN-12E : 12VDC / 230VAC / 150W
 WT-15SN-24A : 24VDC / 115VAC / 150W
 WT-15SN-24E : 24VDC / 230VAC / 150W

Function of LED (fig. 6.2, page 3) :

- *Green : Power On
- *Orange : Over Temperature, Over Voltage & Low Voltage

Protection:

- *Input low voltage
- *Over temperature
- *Input over voltage
- *Overload
- *Low battery alarm
- *Short circuit

TECHNICAL SPECIFICATION REFERENCE

300W Pure Sine Wave Inverter	
Maximum Continuous Power	300W
15 Minutes Power	350W
Maximum Surge Capability (Peak Power)	500W
No Load Current Draw	
• 12V DC	0.7A
• 24V DC	0.4A
DC Input Voltage Range	
• 12V DC	10.5V – 15V
• 24V DC	21V – 30V
AC Output Voltage Range	115V/230V +/- 3%
Total Harmonic Distortion	< 3%
Frequency (may be as specified)	50Hz or 60Hz
Efficiency	85%
Low Battery Alarm	
• 12V DC	10.5V
• 24V DC	21V
Low Battery Shut-Off	
• 12V DC	10V
• 24V DC	20V
Wave Form	Sine Wave
Dimensions (L x W x H)	210x147x66 MM
Net Weight	1.4 Kgs
Model No. WT-15SN-12A	12VDC / 115VAC / 300W
WT-15SN-12E	12VDC / 230VAC / 300W
WT-15SN-24A	24VDC / 115VAC / 300W
WT-15SN-24E	24VDC / 230VAC / 300W

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