



<u>Warnings</u>

Read all instructions before attempting to install or use the inverter. High voltage, 230 volts ac, is generated by this unit. Do not use with wet hands or near water. This unit is only suitable for 12 volt electrical systems with negative earth. To supply 230 volt 50 Hz loads of <1000 watts. Do not connect to any other ac power source.

Installation Instructions

1. Disconnect all battery leads, -ve leads first, before installing the inverter.

2. Locate a suitable position for the inverter and fit securely. The site chosen should be:

- (a) Well ventilated.
- (b) Not exposed to direct sunlight or heat source.
- (c) Away from water or moisture.
- (d) Out of reach of children.
- (e) Away from any flammable or heat sensitive substance.

3. Connect the black 12 volt -ve terminal to the negative side of the supply source and the red 12 volt +ve terminal to a fused positive supply source. Use a minimum of 16.0mm2 cable and keep all cable runs as short as possible. Fuse size 110amp Max.

4. Connect the inverter case ground terminal to the chassis ground when installing in a vehicle, the vessel's grounding system in a boat or to earth in a fixed location. The case ground terminal is connected to the ground terminal in the ac outlet socket.

5. If using the optional remote control (part 0-856-97), fix the remote control in a suitable position and insert the connector into the remote control socket on the inverter control panel.

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Operating Instructions

1. Ensure that the inverter is supplied by a 12-14 volt dc negative earth system and that the load requires <1000 watts at 230 volt 50Hz ac.

2. Plug the appliance into the inverter and then turn on the inverter's power switch; press for 3-5 seconds. The LED will illuminate to indicate ac power is present, then switch on the appliance. Always turn on the inverter before turning on loads individually.

3. Switch off the inverter when not in use or when heavy current is drawn from the dc supply, e.g. when starting an engine from the same supply source.

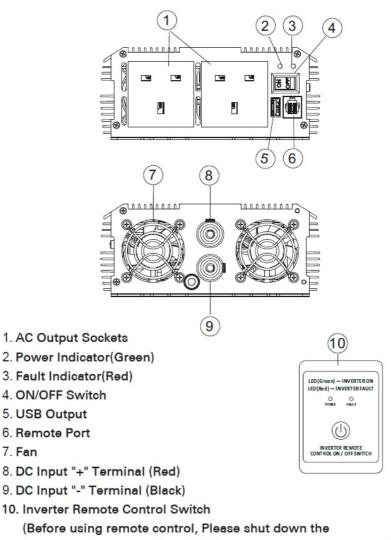
4. In normal operation the inverter will operate in the green region. The inverter protective shutdown will occur if used in the red zone.

5. If the inverter beeps, but is still supplying ac output, this indicates a low supply voltage; switch off the inverter to preserve battery voltage. If left on the inverter will automatically shut down when the supply voltage falls to approximately 10.0 ± 0.5 volts.

6. The fault light indicator illuminates when the inverter has shutdown due to output short-circuit or gross overloading. If this occurs switch the inverter off and correct the cause before switching the inverter on again. For more detaile please see below:

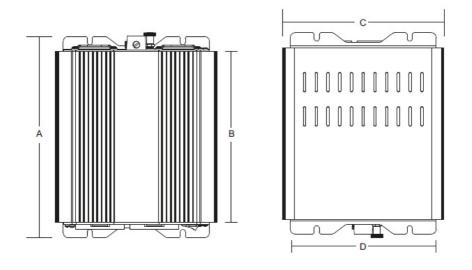
	State description				
Function	LED light	Alarm	AC output	Restart work method	
Input Iow voltage alarm	Green on Red off	Yes	Yes	When the voltage of battery return to related range, alarm stop automatically.	
Input low voltage shut down	Green on Red on	No	No	When the voltage of the battery return to related range, turn off the inverter for 3-5 seconds, then turn on to restart: green light on,red light off. Restart voltage of 12V battery: DC11.7V- 12.3V Restart voltage of 24V battery: DC23.4V- 24.6V	
Input over voltage shut down	Green on Red on	No	No	When the voltage of the battery return to related range, turn off the inverter for 3-5 seconds, then turn on to restart: green light on, red light off.	
Over load shut down	Green on Red on	No	No	Reduce the load to related range, turn off the inverter for 3-5 seconds, then turn on to restart: green light on, red light off.	
Over temperature shut down	Green on Red on	Yes	No	When the inside temperature return to related range, turn off the inverter for 3-5 seconds, then turn on to restart: green light on,red light off.	
Output short circuit	Green on Red off	No	No	When short circuit stopped, inverter restart to work automatically.	

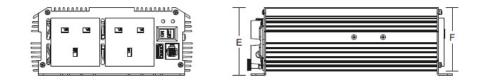
Troubleshooting



inverter and turn switch to "OFF" status, or remote control is invalid.)

Dimensional Drawing





Α	В	С	D	E	F
238mm	205mm	165mm	149mm	69mm	65mm

Specifications

DC input voltage	12VDC (11VDC-15.5VDC)
AC output voltage	230VAC +/- 10%
Output frequency	50Hz +/-3Hz
USB Output	DC 5V, Max 2100mA
Output waveform	Modified Wave
Continuous output power	1000W
Surge output power	2000W
Efficiency	85% Max
No load current	<0.35Amps
Input Under Voltage Alarm	10.2 - 10.8VDC
Input Under Voltage Shut Down	9.2 - 9.8VDC
Input Over Voltage Shut Down	15.5-16VDC
Alarm and Thermal Shutdown	60 +/- 5°C
Input 100% load current draw	104 Amps
Output 100% load current draw	4.35 Amps
Operating Temperature	5 - 35°C
Cooling Method	Fan Assisted
Dimensions	238*165*69mm
Weight	1.701Kg.