Pure Sine wave 600 watt voltage inverter
12 volt dc to 230 volt 50Hz ac
Part 0-857-60

Warnings

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 <600 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 10.0mm2 cable and keep all cable runs as short as possible. Fuse size 70amp 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.

Operating Instructions

1. Ensure that the inverter is supplied by a 12-14 volt dc negative earth system and that the load requires <600 watts at 230 volt 50Hz ac.

2. Plug the appliance into the inverter and then turn on the inverter's power switch; hold 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.

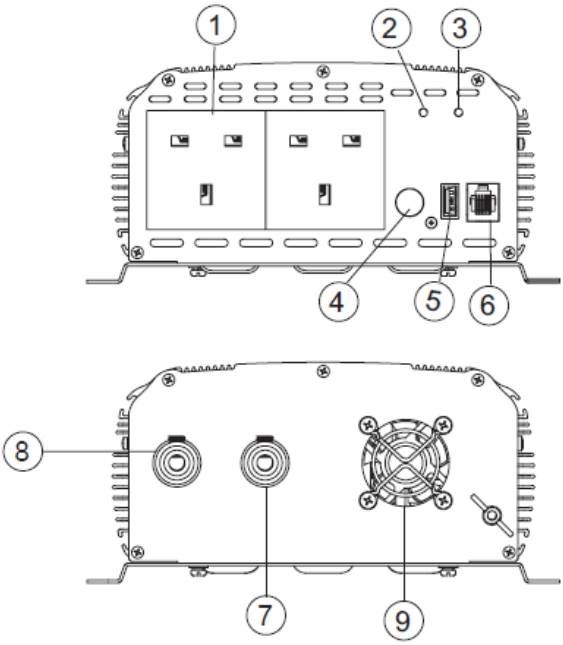
5. If the inverter beeps, but is still supplying ac output, this indicates a low supply voltage; switch off the inverter to preserve battery voltage. If left on the inverter will automatically shut down when the supply voltage falls to approximately 10.0 ± 0.5 volts.

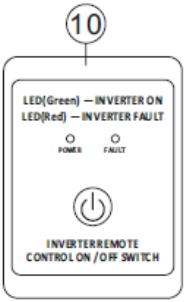
6. The fault light indicator illuminates when the inverter has shutdown due to output short-circuit or gross overloading. If this occurs switch the inverter off and correct the cause before switching the inverter on again. For more detaile please see below:

Troubleshooting

Function	State description				Restart work method
	LED light		Alarm	AC output	
	Green	Red			
Input under voltage alarm	Light	Flash	Di...Di...	have output	When the voltage of the batter return to the related voltage the inverter will restart work, green light on, red light off.
Input under voltage shut down	Light	Flash	Di...Di...	No	
Input over voltage protection	Light	Flash	Di...Di...	No	When the voltage of the batter return to the related voltage the inverter will restart work, green light on, red light off.
Over load protection	Light	Flash	Di...Di...	No	Reduce the load to related rang the inverter will restart work, green light on, red light off
Over temperature shut down	Light	Flash	Di...Di...	No	When the inside temperature return to related rang, inverter will restart work, green light on, red light off.

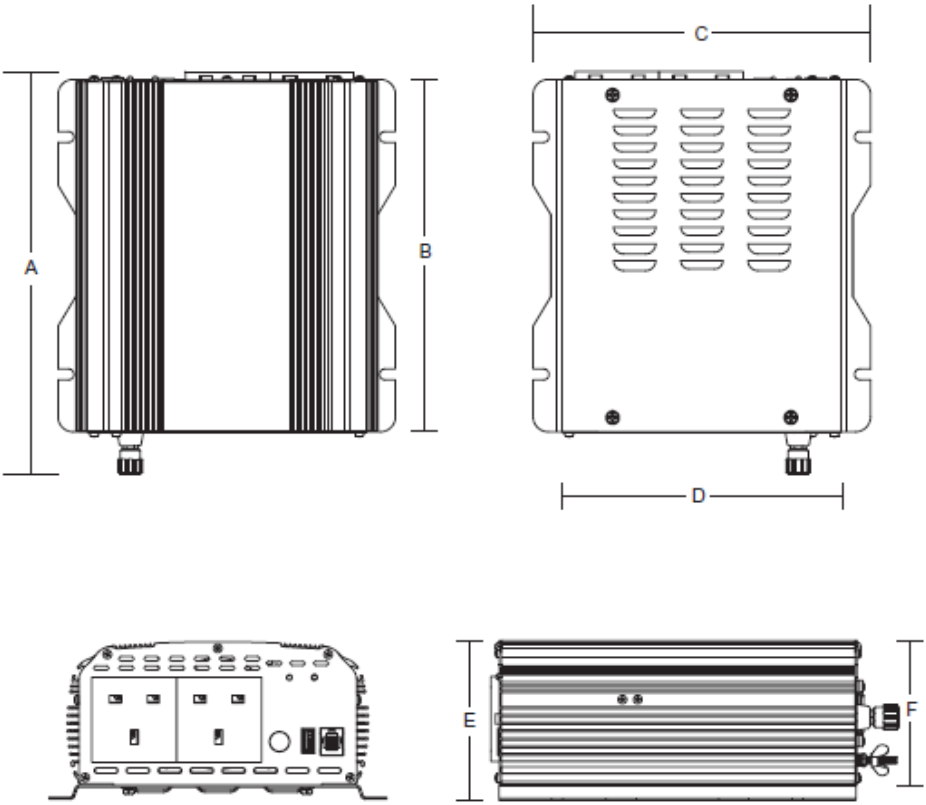
Display and Controls





1. AC Output Sockets
2. Power Indicator(Green)
3. Fault Indicator(Red)
4. ON/OFF Switch
5. USB Output
6. Remote Port
7. DC Input "+" Terminal (Red)
8. DC Input "-" Terminal (Black)
9. FAN
10. Inverter remote control switch without LCD Display

Dimensional Drawing



A	B	C	D	E	F
245.1mm	210mm	201mm	181mm	93.9mm	85mm

Specifications

DC input voltage.....12VDC (11VDC-15.5VDC)

AC output voltage.....230VAC +/- 10%

Output frequency.....50Hz +/-0.5Hz

USB Output.....DC 5V, Max 1000mA

Output waveform.....Pure Sine Wave

Continuous output power.....600W

Surge output power.....1200W

Efficiency.....85% Max

No load current.....<0.85Amps

Input Under Voltage Alarm.....10.2 - 10.8VDC

Input Under Voltage Shut Down.....9.2 - 9.8VDC

Input Over Voltage Shut Down.....15.5-16.0VDC

Alarm and Thermal Shutdown.....60 +/- 5°C

Input 100% load current draw.....63 Amps

Output 100% load current draw.....2.61 Amps

Operating Temperature.....5 - 35°C

Cooling Method.....Fan Assisted

Dimensions.....245*201*93.9mm

Weight.....2.196Kg