



0-857-10 - 12VDC 1000W PSW INVERTER

Durite's 12VDC 1000W Pure Sine Wave Heavy Duty Inverter

Key Features:

- Robust Construction
- Wide Range Input Voltage 11-15.5VDC (Supports EURO 6 Requirements)
- LCD Panel Display with fault code reader / diagnostics
- Fan cooled
- E Marked R10.05 EMC

THE TRUSTED QUALITY BRAND FOR PROFESSIONALS



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 <1000 watts.







Do not connect to any other AC power source.

Installation Instructions

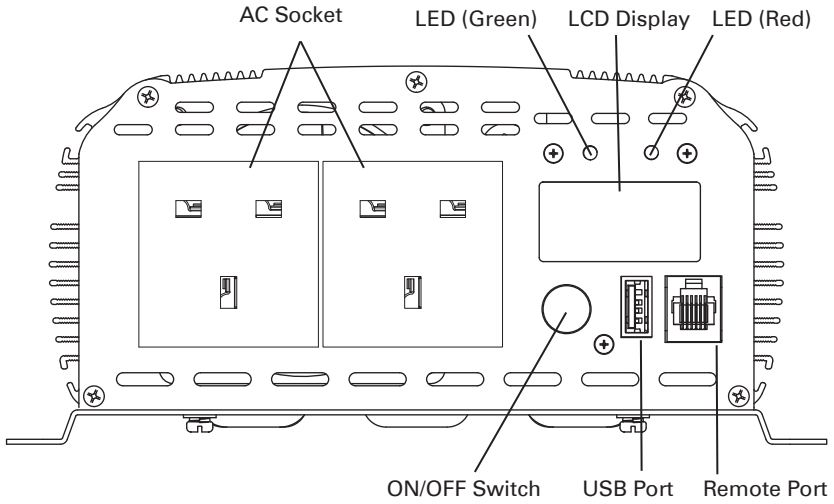
1. Disconnect all battery leads, -VE leads first, before installing the inverter.
2. Locate a suitable position for the inverter and fit securely. The site chosen should be:
 - (a) Well ventilated.
 - (b) Not exposed to direct sunlight or heat source.
 - (c) Away from water or moisture.
 - (d) Out of 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 12volt +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 110 Amp 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 ; 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 <1000 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. 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 9.5 +/- 0.3 volts.
5. 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 detail please see below :

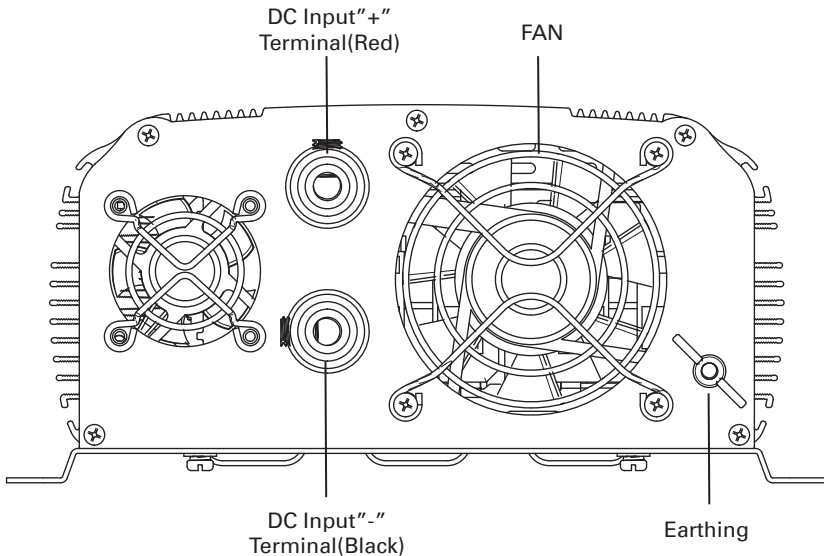
Function	State description					Restart work method
	LCD display	LED light (green)	LED light (red)	Alarm	AC output	
Input under voltage alarm		ON	OFF	Yes Di.....	Yes	/
Input under voltage shut down		ON	ON (flash)	Yes Di...Di...	No	When the input voltage rises to 11.8V +/- 0.3V, the inverter will automatically resume operation.
Input over voltage shut down		ON	ON (flash)	Yes Di...Di...	No	When the input voltage drops to 15V +/- 0.3V, the inverter will automatically resume operation.
Over load shut down		ON	ON (flash)	Yes Di...Di...	No	Reduce the load in the rated power ranger, the inverter will automatically resume operation.
Over temperature shut down		ON	ON (flash)	Yes Di...Di...	No	When the inside temperature return to related range.
Output short-circuit		ON	ON (flash)	Yes Di...Di...	No	After troubleshooting, restart the inverter by manual to resume work.

Display and Controls

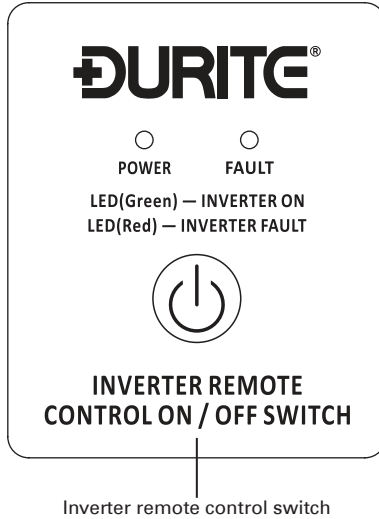


▲ ON/OFF Switch :

1. Short press to switch display between DC Input Voltage and AC Loading Power.
2. 3 seconds long pressing to turn ON / OFF the Inverter.



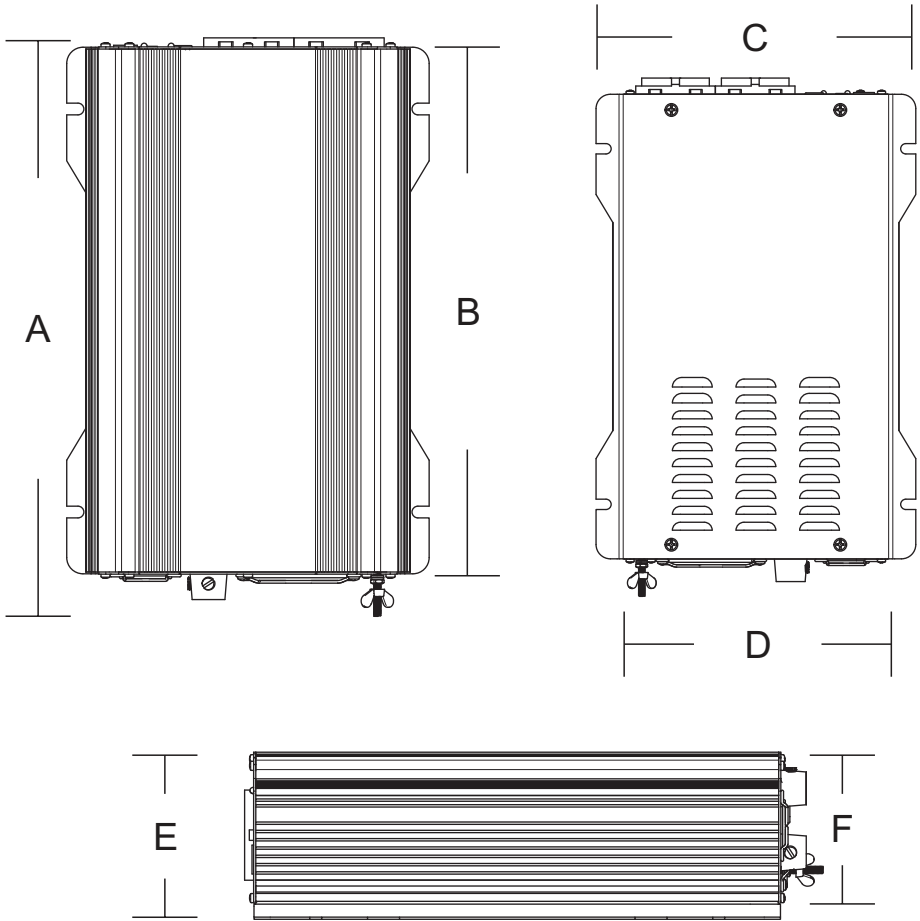
Remote Control



Status instruction for LED light of Remote Control Panel :

Function	LED light	
	Green	Red
Input under voltage alarm	ON	OFF
Input under voltage shut down	ON	ON (flash, 3s apart)
Input over voltage shut down	ON	ON (flash, 3s apart)
Over load shut down	ON	ON (flash, 3s apart)
Over temperature shut down	ON	ON (flash, 3s apart)
Output short-circuit	ON	ON (flash, 3s apart)

Dimensional Drawing



A	B	C	D	E	F
325.8mm	290mm	201mm	181mm	92.7mm	85.5mm

TECHNICAL SPECIFICATIONS

Input	Rated input voltage	DC 13V
	Operating voltage range	DC 11V-15V
Output	Output voltage	AC 230V +/- 10%
	Output frequency	50Hz +/- 1Hz
	USB Output (2 USB total)	DC 5V, 2100mA
	Continuous power	1000W
	Peak power	2000W
	Output Wave	Pure sine wave
Max Efficiency		≧ 85%
12V Input No load current draw		≧ 1A
Low voltage	Input Low-Voltage Alarm	DC 10.5V +/- 0.3V
	Input Low-Voltage Shut Down	DC 9.5V +/- 0.3V
	Low-Voltage Recovery Voltage	When the input voltage rises to 11.8V +/- 0.3V, the inverter will automatically resume operation.
Over voltage	Input Over Voltage Shut Down	DC 15.5V +/- 0.5V
	Over-voltage Recovery Voltage	When the input voltage drops to 15V +/- 0.3V, the inverter will automatically resume operation.
Over load	Over-load protection	Yes (about 1100~1350W)
	Overload Recovery	Reduce the load in the rated power ranger, the inverter will automatically resume operation.
Over temp	Over Temperature protection	Yes
	Over Temperature Recovery	When the temperature inside the inverter decreases to the set point, the inverter will back to work automatically.
Short circuit	Output Short Circuit protection	Yes
	Short Circuit Recovery	After troubleshooting, restart the inverter by manual to resume work
Reverse protection		There is reverse connection protection; after the correct connection, the inverter works normally. But reverse connection will cause irreparable damage to the inverter!
The Best Working Temperature		5 - 35°C
Fuse		25A*5
Cooling method		By Fan
LCD display information		Input voltage , Load power , Battery power(%) , Fault code (F01 : Low volt , F02 : Over volt , F03 : Over load , F04 : Over temp , F05 : Output short circuit)
Remote control		RJ12 port , 6m cable