

Pure Sinewave Inverter 150VA



Benefits

- Quiet Operation
- Power for sensitive electronics, without interference
- Pure Sinewave Output
- Multiple electronic protection functions
- Remote ON/OFF
- Compact size
- Rugged & Reliable
- Years of safe and trouble free operation

Applications

- Telecom Power Plants
- Marine & other rugged environments
- Electric Utilities and Substations
- Base Station Power
- Industrial Controls
- Solar Home Systems
- Fuel Cell Applications
- Solar / Alternative Power Systems
- Emergency Power Backup (UPS)
- Pleasure and holidays
- Development aid

Sinewave Inverter

Series SWING 150VA Output Power

Description

The model 150VA pure sinewave inverter supplies a 230VAC output voltage either from a 12V or 24V VDC power source. The shape of the output voltage is pure sinewave - as from the grid.

The inverter design is based on proven 50Hz-Technology. Extra input and output filtering reduce EMI to extremely low levels. Reliability features include an input fuse, thermal shutdown, current limiting and output short circuit shutdown with automatic recovery.

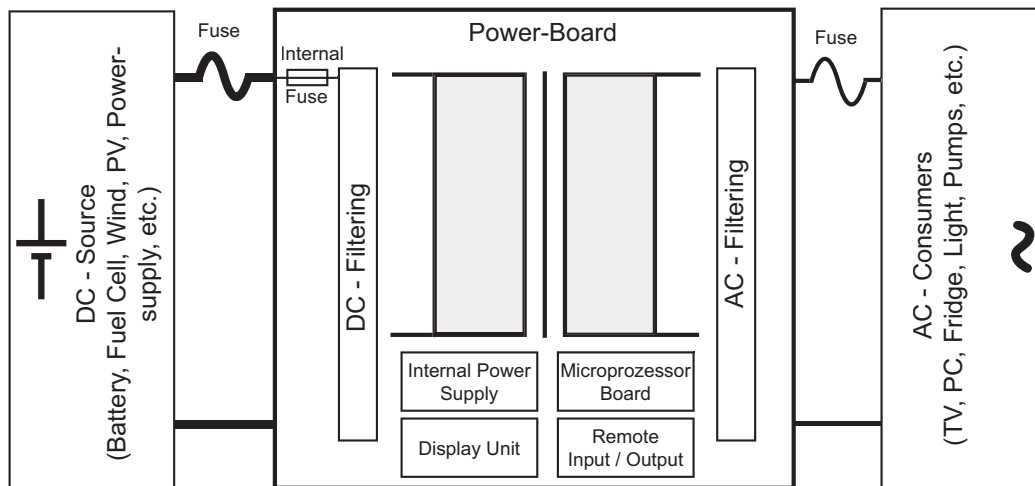
The input and output is fully isolated. The superb overload capability supplies short time peak power to start heavy equipment such as pumps and compressors.

Remote ON/OFF function is easy to install with an external switch.

Features

- Fully Isolated Design
- Microprocessor controlled
- Outstanding efficiency at full load
- Crystal controlled output frequency
- Pure and fast regulated sinewave output
- Low ripple on the DC-Input to save battery life time
- Visual indicators for battery level & failure
- Over-temperature shutdown
- Short circuit protection
- Low input voltage protection
- Cycle by cycle current limiting
- Softstart
- Load and temperature controlled fan
- Meets CE safety and emission rules
- Remote ON/OFF with external switch
- Optional 110 VAC version available
- 24 month parts and labour warranty

Block Diagram



Specifications (Specifications Subject to Change Without Notice)

Electrical (output)

Nominal VAC	230 +/- 5%
Output Frequency	50Hz +/- 0.3%
Nominal power	150VA continous
Nominal current	0.65A (230VAC @ nominal Power)
Power for 3 min.	200VA
Peak Power	250VA
Output Waveform	Pure Sinewave
Protection circuitry	Short circuit, Overload, Overtemperature
Indicators	Overload, Overtemperature
Power Factor	0.4 - 1 (COS Phi)

Environmental Specifications

Operating Temp. Range	-10° to +40°C @ maximum output Derating Linearly 4% per °C from 40°C
Humidity	0 - 95% Relative Humidity (non-condensing)
Audible Noise	NONE, 0db @ 1m (Fan OFF)
Fan	Load and temperature controlled (65°C ON, 45°C OFF)
Isolation	Input-Output 1100VDC, Input-Case 1100VDC Output-Case 500VDC

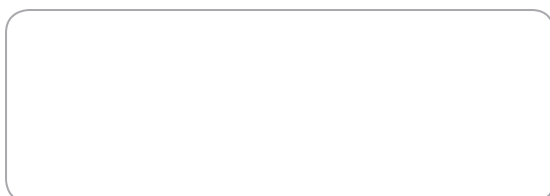
Electrical (input)

Nominal voltage (VDC)	12	24
Voltage range (VDC)	10.5 - 15	21 - 30
Amps @ Pnom (A)	14	6.5
Protection circuitry	Overvoltage, Lowvoltage	
Idle current 230V ON (A)	0.22	0.17
Efficiency max.	91%	93%
Efficiency @full load	72%	80%
Indicators	Overvoltage, Lowvoltage	

Mechanical Specifications

Length	20.0 cm
Width	13.2 cm
Height	7.2 cm
Clearance	2.5 cm all around
Material	Aluminium
Finish	Black Anodize / Powder Epoxy Coat
Weight	2.7 Kg
Connections	12V DC-Car-Plug, 24V DC-cable, AC-connector (Connector supplied with inverter)
Warranty	2 years
Standards	Approval to CE, e-Mark

Available from:



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