

# Pure Sinewave Inverter 200W

RoHS Compliant  
Directive 2002/95/EC



## Benefits

- Quiet Operation
- Power for sensitive electronics, without interference
- Pure Sinewave Output
- Multiple electronic protection functions
- Light weight and 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 pro 200W

## Description

The model 200W pure sinewave inverter supplies a 230VAC output voltage either from a 12V, 24V or 48 VDC power source. The shape of the output voltage is pure sinewave - as from the grid.

All new High Frequency Switching Design offers high power and reliability in a compact package and light weight. Extra input and output filtering reduce EMI to extremely low levels.

Reliability features include short circuit protection, overvoltage protection, low input voltage protection, over-temperature protection.

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.

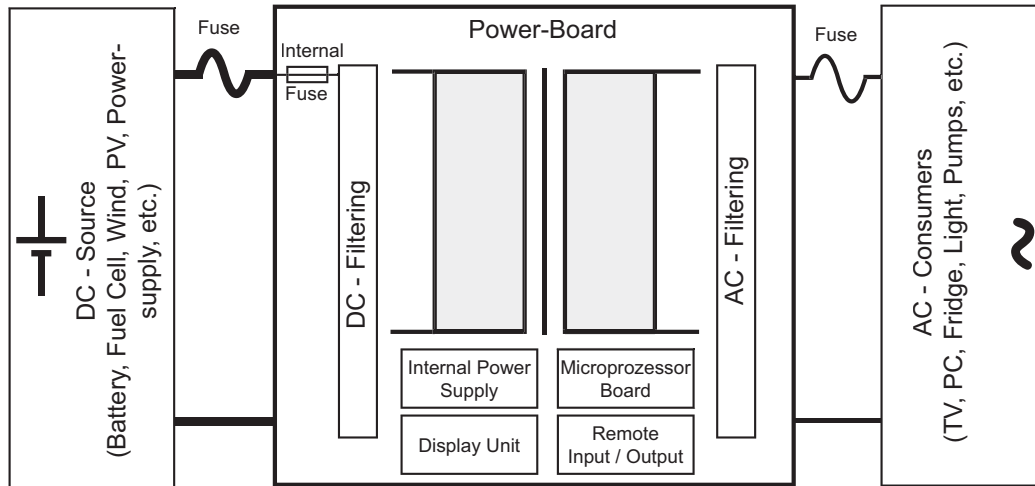
## Features

- Fully Isolated Design
- Microprocessor controlled
- Frequency selectable 50 or 60Hz
- Outstanding efficiency at full load
- Crystal controlled output frequency
- Pure and fast regulated sinewave output
- LED-indicator for operating status and alarm
- Over-temperature protection
- Short circuit protection
- Low input voltage protection
- Cycle by cycle current limiting
- Softstart
- Load and temperature controlled fan
- 24 month parts and labour warranty

### Options

- Remote Control
- 115VAC output voltage

## Block Diagram



## Specifications ( Specifications Subject to Change Without Notice)

### Electrical (output)

|                           |  |
|---------------------------|--|
| Nominal (VAC)             | 230 +/- 3%                               |
| Frequency (Hz)            | 50 / 60 +/- 0.05% (selectable)           |
| Nominal power (W)         | 200                                      |
| Max. Power for 3 min. (W) | 250                                      |
| Peak Power (W)            | 400                                      |
| Output Waveform           | Pure Sinewave < THD 3%                   |
| Protection circuitry      | Short circuit, Overload, Overtemperature |
| Indicators                | Overload, Overtemperature                |
| Power Factor              | 0.5 - 1 (COS Phi)                        |

### Environmental Specifications

|                       |  |
|-----------------------|--|
| Operating Temp. Range | -10° to +50°C @ Pmax<br>Derating Linearly 2.5% per °C from 50°C    |
| Humidity              | 0 - 95% Relative Humidity (non-condensing)                         |
| Audible Noise         | NONE, 0db @ 1m (Fan OFF)   |
| Fan                   | Load and temperature controlled                                    |
| Isolation             | Input-Output 1100VDC,<br>Input-Case 1100VDC,<br>Output-Case 500VDC |

### Electrical (input)

|                          |                         |         |       |
|--------------------------|-------------------------|---------|-------|
| Nominal voltage (VDC)    | 12                      | 24      | 48    |
| Voltage range (VDC)      | 10 - 16                 | 20 - 32 | 42-62 |
| Amps @ Pnom (A)          | 18                      | 9       | 4.5   |
| Protection circuitry     | Overvoltage, Lowvoltage |         |       |
| Idle current 230V ON (A) | 0.4                     | 0.2     | 0.2   |
| Efficiency max.          | 95%                     | 96%     | 96%   |
| Efficiency @full load    | 93%                     | 94%     | 95%   |
| Indicators               | Overvoltage, Lowvoltage |         |       |

### Mechanical Specifications

|             |  |
|-------------|--|
| Length      | 23.0 cm  |
| Width       | 11.9 cm  |
| Height      | 7.1 cm   |
| Clearance   | 2.5 cm all around  |
| Material    | Aluminium  |
| Finish      | Black Anodize / Powder Epoxy Coat  |
| Weight      | 1.2 Kg   |
| Connections | 12V DC-Car-Plug, 24V and 48V DC-cable,<br>IEC AC-connector<br>(Connector supplied with inverter) |
| Warranty    | 2 years  |
| Standards   | Approval to CE, LVD  |

Available from:



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