

# Pure Sinewave Inverter 700VA



Pure sinewave



Power save mode



Remote control port



High frequency technology



Light weight perfect for vehicles



Multiple electronic protection

## 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 JAZZ 700VA Output Power

## Description

The model 700VA 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 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.

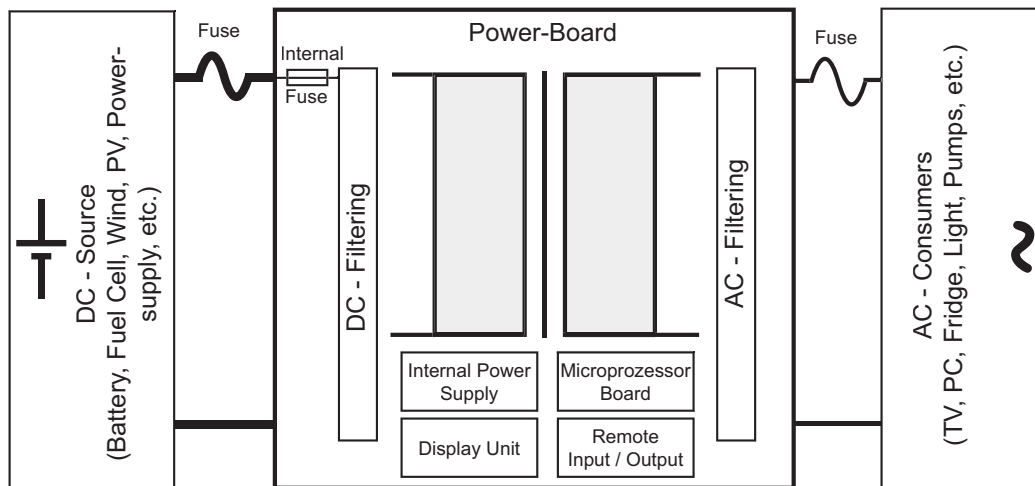
It is equipped with a power save circuitry using the auto sense method to detect a load connected to the output.

Optional features include a Remote Control.

## Features

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

## Block Diagram



## Specifications ( Specifications Subject to Change Without Notice )

### Electrical (output)

<b>Nominal VAC</b>	230 +/- 3%
<b>Output Frequency</b>	50Hz - 60Hz (selectable) +/- 0.05%
<b>Nominal power</b>	700VA continous
<b>Nominal current</b>	3A (230VAC @ nominal Power)
<b>Power for 3 min.</b>	800VA
<b>Peak Power</b>	900VA
<b>Output Waveform</b>	Pure Sinewave
<b>Protection circuitry</b>	Short circuit, Overload, Overtemperature
<b>Indicators</b>	Overload, Overtemperature, Loadlevel (Red / Orange / Green)
<b>Power Factor</b>	0.4 - 1

### Environmental Specifications

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

### Electrical (input)

<b>Nominal voltage (VDC)</b>	12	24	48
<b>Voltage range (VDC)</b>	10.5 - 15	21 - 30	42 - 60
<b>Amps @ Pnom (A)</b>	65	31	15
<b>Protection circuitry</b>	Overvoltage, Lowvoltage		
<b>Idle current 230V ON (A)</b>	0.82	0.43	0.22
<b>Idle current sleep (A)</b>	0.125	0.06	0.03
<b>Efficiency max.</b>	92%	93%	95%
<b>Efficiency @full load</b>	87%	89%	91%
<b>Indicators</b>	Overvoltage, Lowvoltage, Battery level (Red / Orange / Green)		

### Mechanical Specifications

<b>Length</b>	29.5 cm
<b>Width</b>	18 cm
<b>Height</b>	7.5 cm
<b>Clearance</b>	2.5 cm all around
<b>Material</b>	Aluminium
<b>Finish</b>	Black Anodize / Powder Epoxy Coat
<b>Weight</b>	2.9 Kg
<b>Connections</b>	DC-clamps, AC-connector (Connector supplied with inverter)
<b>Warranty</b>	2 years
<b>Standards</b>	Approval to CE, e-Mark

Available from:



# RIPEnergy®

The power conversion company

RIPEnergy AG  
Wägitalstrasse 24  
CH-8854 Siebnen  
Switzerland

Ph +41-(0)43-818 53 85  
Fax +41-(0)43-818 53 87  
www.ripenergy.ch