Pure Sinewave Inverter 2000VA

	Pure sinewave
	Digital display
	Transfer switch
R/C	Remote control port
HF	High frequency technology
	Extended temperature range
	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   UPSW2000

Description

The model UPSW2000 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 equiped with a power save circuitry using the auto sense method to detect a load connected to the output. The unit is equiped with an automatic UPS bypass function < 6ms.

Optional: Remote Control
        Ruggedizing (against shock and vibration)

Features

- Pure sine wave output (THD < 3%) R Load
- No derating of output power up to +50°C
- By pass UPS function 4-6ms
- Online or Offline UPS function (selectable)
- Isolated Alarm Contact
- Output voltage / frequency selectable
- RS–232C interface / remote controls port / Wire connection to PC
- Compact design, low profile
- Temperature and load controlled cooling fan
- Advanced microprocessor
- Protection: Input low voltage, Input over voltage, Short circuit, Overload, Over temperature
- Low battery alarm
- Digital display: VAC, VDC, AAC, Watts, Temp, Frequency
- Power save mode with auto sense
- Low ripple on the DC-Input to save battery life time
- 24 month parts and labour warranty

Alarm contact
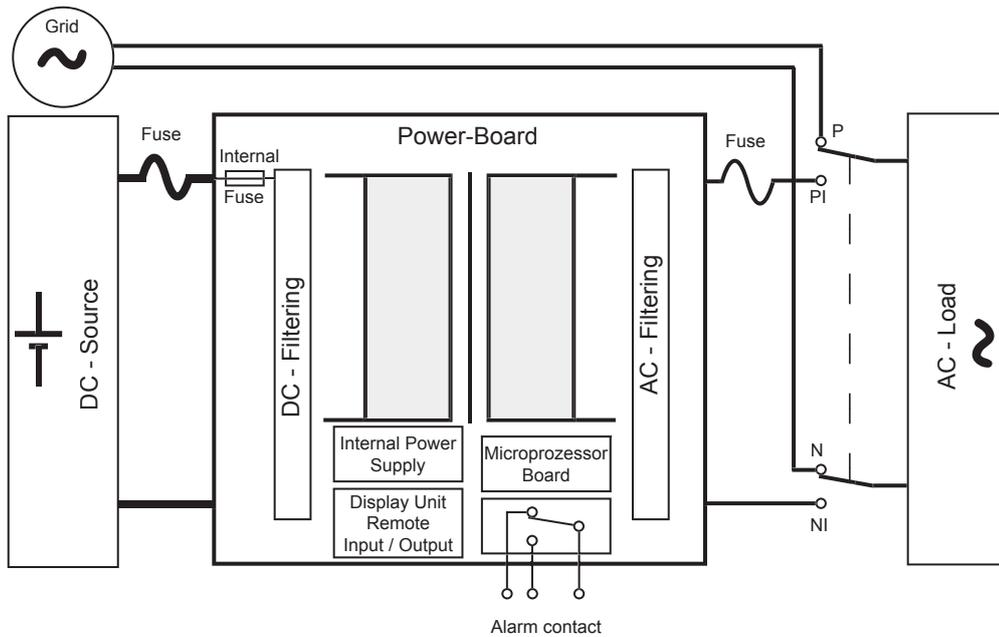
Specifications *(Specifications Subject to Change Without Notice)*

Electrical (output)

Model	12	24	48
Nominal VAC	200 - 240 (adjustable) +/-2%		
Output Frequency	50Hz - 60Hz (selectable) +/- 0.05%		
Continuous power	1500W	1600W	1700W
Power for 1 min.	1650W	1760W	1870W
Power for 20 sec.	1800W	1920W	2040W
Output Waveform	Pure Sinewave <3% THD (R Load)		

Environmental Specifications

Operating Temp. Range	-30° to +60°C @ maximum output > 50°C derating 2% per °C Thermal Shutdown @ +90°C
Humidity	0 - 95% Relative Humidity (non-condensing)
Audible Noise	Scarcely audible @ 1m (Fan OFF)
Fan	Load and temperature controlled
Isolation	Input-Output 1100VDC, Input-Case 1100VDC Output-Case 500VDC
Indicators/Display	VDC, VAC, AMP, WATT, Hz (selectable)
Alarm Indicators	OVP, UVP, OTP, OLP
Isolated Alarm Contact	Switching capacity 120VAC/5A , 30VDC/2A
Protection	Short circuit, Overload, Overtemperature, Overvoltage, Low voltage

Electrical (input)

Nominal voltage (VDC)	12	24	48
Voltage range (VDC)	10 - 16	20 - 32	42 - 62
Amps @ Pnom (A)	189	92	45
Idle current 230V ON (A)	1.4	0.7	0.5
Idle current sleep (A)	0.125	0.06	0.04
Efficiency max.	91%	93%	95%
Efficiency @full load	87%	90%	92%
Bypass AC Input (VAC)	180 - 260		
Bypass Frequency (Hz)	50 - 60		
Bypass Amps (A)	15		
Bypass (ms)	4 - 6		
Interface Control Port	RS-232C With Baud Rate 2400,4800, 9600, 19200 (Switch Selectable)		

Mechanical Specifications

Length	46 cm
Width	19"
Height	8.8 cm (2U)
Finish	Black Anodize / Powder Epoxy Coat
Weight	12 Kg
Connections	DC-clamps, AC-clamps and AC-connector IEC60320-1 (Connector supplied with inverter)
Warranty	2 years
Standards	Approval to CE

RoHS Compliant
Directive 2002/95/EC

Available from:

RIPEnergy®

The power conversion company

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