



## SINEWAVE INVERTER

### SERIES PSW3000

The model PSW3000 pure sine wave inverter supplies a 230VAC output voltage either from a 12 V, 24 V, or 48 VDC power source.

The shape of the output voltage is pure sine wave - 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.

The unit is equipped with an automatic bypass function < 6ms.



Pure Sinewave



High frequency technology



Light weight, compact size



Digital display



Transfer switch Inverter priority



Extended temperature range



Multiple electronic protection



Remote control port



Output fail alarm

### 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)
- Tropical climates
- Demanding environments

### FEATURES

- Pure sine wave output
- No derating of output power up to +50°C
- Bypass function 4-6ms (Inverter priority)
- Isolated Alarm Contact
- Output voltage / frequency selectable
- Remote control port
- 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
- Low ripple on the DC-Input to save battery life time
- 24 month parts and labour warranty

# SPECIFICATIONS

Electrical Input				
Nominal DC-Input Voltage	VDC	12	24	48
DC-Input Range	VDC	10 - 16	20 - 32	42 - 62
Amps @ Pnom	A	288	140	69
Idle current 230V ON	A	2.8	1.5	0.7
Idle current sleep	A	0.25	0.125	0.06
Efficiency max.	%	88	90	91
Efficiency @ full load	%	85	88	90
Bypass AC Input	VAC	180 - 260		
Bypass Frequency	Hz	50 - 60		
Bypass Amps	A	20		
Bypass switching time	ms	4 - 6		
Interface Control Port		RS-232C With Baud Rate 2400,4800, 9600, 19200 (Switch Selectable)		
Electrical Output				
AC-Output Voltage	VAC	200 - 240 (adjustable) +/-2%		
AC-Output Frequency	Hz	50 - 60 (selectable) +/- 0.05%		
Continuous Power	W	2100	2400	2550
Power for 1 min.	W	2475	2640	2805
Power for 20 sec.	W	2700	2880	3060
Output Waveform		Pure Sinewave <3% THD (R Load)		

Other Specifications	
Cooling	Load and temperature controlled fan
Operating temperature range	-30°C to +60°C @ maximum output > 50°C derating 2% per °C Thermal Shutdown @ +90°C
Relative Humidity Rating	0 - 95% Relative Humidity (non-condensing)
Audible Noise	Scarcely audible @ 1m (Fan OFF)
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
Connectons	DC-clamps, AC-clamps and AC-connector IEC60320-2
Dimensons (LxWxH)	46cm x 19"x 8.8cm (2U)
Weight	13.5kg
Standards	Approval to CE
Finish	Black Anodize / Powder Epoxy Coat
RoHS Compliant	Yes
Warranty	2 Years

## BLOCK DIAGRAM

