

SPWM Series Inverter 1-10kVA

Nowadays our power systems comprise of complex networks, where power stations and load centres are interconnected through long power transmission and distribution networks. Although the power generation is reliable the quality can be affected.

A phased shifted pulse width modulation inverter is an effective solution for increasing power and reducing harmonics of AC waveforms. The PSPWM is where each cell is modulated independently, providing an even power distribution among the cells and as a result generates an output waveform with lower distortion and lower acoustic noise.

Using the latest technology, the new Thytec range of SPWM inverters are smaller, lighter, and more compact in size. The



Key features and benefits

- Designed and manufactured in Australia, by a company with 35 years experience in DC power systems
- Reliable and flexible design
- Complies with Australia standards
- Intelligent remote alarms
- Optional to be fitted into a free-standing server cabinet

Technical Specification

Model Number		SPWM-1 1kVA	SPWM-2 2kVA	SPWM-3 3kVA	SPWM-5 5kVA	SPWM-10 10kVA
Battery Input	Voltage (DC)	48/120/240	48/120/240	48/120/240	120/240	120/240
AC Output	Power (W)	800	1600	2400	4000	8000
	Voltage	230	230	230	110/230	110/230
	Frequency (Hz)	50/60/400	50/60/400	50/60/400	50/60/400	50/60/400
	Current (A)	4.2	8.6	13	45/27.7	90/43.5
	Crest Factor	5:1				
	Parallel operation	Optional				
	Overload	125% for 10 minutes				
	Overload	150% for 1 minute				
	Regulation	+2%	+2%	+2%	+2%	+2%
	Harmonic distortion	2%	2%	2%	2%	2%
	Efficiency	91%	92%	92%	93%	95%
	Battery Input Protection	Battery DC circuit breaker				
Low shutdown						
Under DC voltage						
Environment	Working temperature	0-40C @ full load 0-50C @ 50% load				
	Storage temperature	0-70C				
	Working humidity	20-90% non-condensing				
EMC	Conduction & Radiation	Compliance to EN55022 Class A				
Input DC Connections	Anderson connectors	1 Red & 1 Black				
Output AC Connections	3 Pin socket for units up to 2kVA	240V 10A RS-10 / hardwired terminal blocks				
Output Control	240V neon indicator	Inverter 'ON' red				
	LCD display	Voltage and frequency				
Remote Alarms Voltage Free Contacts	NC-COM-NO	Terminals for Inverter fault/failure				
Interface	Ethernet	Optional				
Physical	Size 19" rack	482W x 133H x 350D (mm) 3RU				482W x 177H x 450D (mm) 4RU
	Weight	7	8	8.5	9.8	14