

# INV Series

## Inverter 5-60kVA

The Thytec INV Series Industrial Inverters are Australian designed and manufactured. They are available in single phase and three phase ratings, which are microprocessor controlled for continuous load supply.

The Sinewave Inverter offers exceptional benefits to the power sensitive load. The design feature is utilizing pulse width modulation (PWM) inverter technology to produce a very closely regulated output voltage. It also delivers a clean distortion free sinewave output better than 3% with a high efficiency of >90%. All enclosed in a rack mount cabinet offering ease of installation and operation, maximum reliability and maintenance free.



### Key features and benefits

- Australian made and designed for robust conditions
- Great reliability and performance
- Complies with Australia standards
- Intelligent remote alarms
- Maintenance free
- Output isolation transformer

# Technical Specification

Model		INV Series Inverters
KVA		5kVA ~ 60kVA
INPUT VOLTAGE DC		
Input Voltage		48V / 120V / 240V / 400V
Input Range		+ / - 12.5%
BYPASS AC INPUT		
Input Voltage		120V / 240V + / - 10% 1 Phase or 415V + / - 10% 3 Phase
Input Frequency		50 60 Hz + / - 5%
Transfer Time		<1 millisecond
OUTPUT AC		
Output Voltage		120V / 240V 1 Phase or 415V 3 Phase
Wave Form		Sine Wave
Output Power Factor		0.8
Frequency Range		50 / 60 Hz Synchronization With Bypass or + / - 0.5Hz
Frequency Slew Rate		1 Hz/sec
Voltage Regulation Tolerance		+ / - 1% Steady State 1% Balanced Load 2% Un-Balanced Load
Crest Factor		3:1
THD		< 2% max. Linear Load < 2% Single Harmonic < 5% Non Linear Load
Overload	125%	15 Minutes
	150%	Shut Down
Efficiency (100% Load)		>92% at Full Load
STATIC SWITCH		
Overload Rating		200% for 10 Minutes, 1000% for 1 Cycle
Mains / Inverter		1 millisecond, no break transfer
OVERALL CHARACTERISTICS		
Height x Width x Depth (mm)		Varies dependant on size
Weight (Kg)		100kg ~ 600kg
Audible Noise		< 58 dBA (at 1 Meter)
Temperature		0 - 40°C
Humidity		0 – 90% (Non-Condensing)
Maintenance Bypass Switch		Internal ~ No Break Switch
Protection Cubicle		Under/Over Voltage, Overload, Over Temperature Free Standing, Powder Coated
LED,LCD,Buzzer		YES
Remote Control/Comms Interface		Voltage Free Dry Contacts, RS232

Different specifications if required are available.