## Industrial Grade PIV Series Inverters



**PIV Series, Sine Wave Inverters,** convert DC power to transient free sinusoidal AC power. The inverters are designed to provide AC power to loads which have high inrush currents and require close frequency control. The pulse width modulated Ferroresonant design provides a highly reliable, high efficiency inverter, with inherent noise rejection, input to output isolation, current limiting and static voltage regulation.

## **Specifications:**

Input:	Mounting: 19" or 23" reversible relay rack mount or			
DC Voltage: (See table)	wall mount			
DC Current: (See table)	<b>MTBF:</b> 40,000 hours at 25C ambient temperature			
<b>Output:</b> Voltage: 117 VAC, 60 Hz. (other voltages and frequencies are optional)	Service Access: Front panel			
<b>Power Factor:</b> Rated power is available over a range of 0.75 to unity.	Cooling: Natural convection Operating temperature range: -10°C to +45°C			
Total Harmonic Distortion: 5% maximum at nominal input voltage,				
full load and unity power factor.	Storage Temperature range: -40°C to 75°C Operating humidity: 0 to 90% relative humidity at 25°C, non-			
<b>Line Regulation:</b> $\pm 1\%$ maximum for all input variations between low				
and high voltage, at half load.	condensing.			
Load Regulation: ±2% maximum for all load variations between no	Protective Features:			
load and full load at nominal input voltage.	Input fuse to 1.5 kVA, Circuit Breaker for 2 kVA and above			
Regulation Envelope: ±5% maximum for any combination of line	Low and high input voltage detection, with inverter turn off. Automatic restart			
voltage, load current and temperature with specifications.	Reverse polarity protection			
Frequency Stability: ±0.05 maximum, crystal controlled.	Output overload protection by circuit breaker.			
Peak Voltage Deviation: Transient Deviation and Recovery (for change	Electronic shut down protection for severe overload or short			
of 50% of rated load). Within 10% of steady state peak voltage.	short circuit.			
Recovery time with 100 milliseconds.	Dimensions:			
Efficiency: 72 to 88%	Case Size A: 12.25" High / 17.0" Wide. / 11" Deep.			
	Case Size B: 25.00" High / 17.2" Wide / 15" Deep.			
	Inverters Install in 19" or 23" racks or may be wall mounted.			

	300 VA	500 VA	750 VA	1200 VA	1500 VA	2000 VA	3000 VA
Nominal 24 Volts Range: 21 to 28 Volts	PIV 300-24	PIV 500-24	PIV 750-24	PIV 1200-24 *68 amp	PIV 1500-24 *85 amp	PIV 2000-24 *113 amp	PIV 3000-24 *169 amp
Nominal 48 Volts Range: 42 to 58 Volts	PIV 300-48	PIV 500-48	PIV 750-48	PIV 1200-48 *34 amp	PIV 1500-48 *42 amp	PIV 2000-48 *56 amp	PIV 3000-48 *84 amp
Nominal 120 Volts Range: 105 to 145 Volts	PIV 300- 120	PIV 500-120	PIV 750-120	PIV 1200-120 *14 amp	PIV 1500-120 *17 amp	PIV 2000-120 *23 amp	PIV 3000-120 *34 amp
Nominal 240 Volts Range: 210 to 290 Volts	PIV 300- 240	PIV 500-240	PIV 750-240	PIV 1200-240 *7 amp	PIV 1500-240 *9 amp	PIV 2000-240 *12 amp	PIV 3000-240 *17 amp
Case Size	А	А	А	А	А	В	С

\*DC Amps @ Low Voltage Cutoff