



Industrial 600VDC 10 to 60KVA Inverter

Industrial DC to AC Inverter

- True On-line Technology for Maximum Power Protection
- Available in 10kva, 20kva, 30kva, 40kva, 50kva, and 60kva Power Ratings
- Single or Three Phase Outputs
- 50Hz or 60Hz Models
- 350 – 850VDC Input Acceptance Range
- Commonly used with Third Rail Systems
- 30-Year Designed Life
- Input Air Filters Replaceable without Opening Cabinet Doors
- NEMA 1 Enclosure with 11ga frame, 12ga steel doors, 14ga side and rear panels
- Three point Lockable Door Latch Cat 60 Keyed
- Copper Wound Transformers
- LCD Monitoring
- LED Power Flow Diagram
- Ethernet RJ45 Communications Port
- Form “C” Alarm Interface Contacts
- Light Gray Powder Coat Finish
- Built to Meet UL1778, NEMA, NEC, ANSI and FCC requirements



30KVA Model

Available Options

- ⇒ Analog Metering Package
- ⇒ Multiple Output Voltages Available
- ⇒ 50Hz/60Hz Models
- ⇒ Air Filtration and Conformal Coating of PCBs
- ⇒ Emergency Power Off / Shunt Trip
- ⇒ Customizable Design for Unique Applications



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Technical Specifications														
Model	10kva		15kva		20kva		30kva		40kva		50kva		60kva	
FL 600VDC Input Amps	18.3A		28A		37A		55A		73.3A		92A		110A	
Max DC Input Amps	39.4A		59.1A		79A		118.3A		158A		197A		237A	
Input Transients	3000 V for 50uS, 1500V for 20mS													
AC Output Three-Phase														
Output Voltage VAC	120/208	277/480	120/208	277/480	120/208	277/480	120/208	277/480	120/208	277/480	120/208	277/480	120/208	277/480
Frequency (Hz)	60Hz		60Hz		60Hz		60Hz		60Hz		60Hz		60Hz	
Full Load (Amps)	27.7	12.0	41.7	18.1	55.6	24.1	83.3	36.1	111.1	48.2	139	60.2	166.8	72.2
AC Output Single-Phase														
Output Voltage VAC	120	240	120	240	120	240	120	240	120	240	120	240	120	240
Frequency (Hz)	60Hz		60Hz		60Hz		60Hz		60Hz		60Hz		60Hz	
Full Load (Amps)	83.4	41.7	126	63	166	83	250	125	334	167	416	208	500	250
Mechanical														
Size W x D x H (in)	31.5x34x65		31.5x34x65		49.5x34x65		49.5x34x65		63x34x65		63x34x65		63x34x65	
Weight (lbs)	2,200		2,300		2,480		2,910		3,570		3,870		4,210	

Output

Regulation: $\pm 2\%$ from 0 to 100% load over entire DC
Input range of 350VDC to 850VDC
Output THD: <3% linear load, <5% nonlinear load
Overload: 120% for 15 min, 150% for 1 min, 200% for
5 seconds
Crest Factor: 3:1
Slew Rate: 1Hz per second (adjustable)
Frequency: $\pm 0.01\%$ free running

General Information

Cable Entry: Top or Bottom
Ventilation: Forced Air Redundant Fans
Paint: Sherwin Williams Light Gray
Powder Coat
Cabinet: NEMA1

Environmental

Operating Temperature: 20°F to 120°F
Relative Humidity: Up to 95% non-condensing
Acoustical Noise: <65dB (A) scale @ 1 meter
Altitude: 5,000 Ft without de-rating
Storage Temperature: 20°F to 120°F

Note:

- Specifications shown reflect standard 60Hz Inverter models. Models of 50Hz, 400Hz, or other input/output/battery voltage configurations are available by contacting the factory.
- All data is subject to change without notice.