

PXe-M Series Static Frequency Converter

PXe-130005-M | 5kVA | 230V single-phase input | 440V three-phase output

Compact 5kVA static frequency converter configured for a 230V single-phase 50Hz input and 440V three-phase output with a 47-63Hz output frequency. The PXe-M Series provides single-phase input to three-phase output conversion where three-phase equipment must operate from a single-phase supply.

The specification below records the electrical, environmental, mechanical and compliance details for this configured unit.



Rated capacity 5kVA	Input 230V 1PH, 50Hz	Output 440V 3PH, 47-63Hz	Enclosure IP22 rack mount
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1. General

Model	PXe-130005-M
Capacity	5kVA
Phase	Single Phase in/ Three Phase out

2. Input

Nominal Voltage	230V $\pm 10\%$, 1 Phase + N
Acceptable Range	207V – 253V
Frequency	50Hz
Power Factor	>0.8

3. Output

Nominal Voltage	254V (L-N)/ 440V (L-L) $\pm 10\%$, 3 Phase + N
Rated Current	6.5A per phase @ 254V
Frequency	47-63Hz
Voltage Accuracy	< $\pm 1\%$ FS
Frequency Accuracy	< $\pm 0.1\%$ FS
Total Harmonic Distortion (THD)	THD < 3% @ Linear Load, pure sine wave output
Load Current Crest Factor Capability	3:1
Overload Capacity	100% continuous, <110% - 15 minutes, <125% - 10 minutes, <150% - 1 minute, <200% - 5 seconds

Construction, environment and compliance

Remaining specification values for the individual configured unit

4. Control, protection and enclosure

Interface	RS232C
Protection	Over Current, Overload, Over Voltage, Overheat, Short Circuit, Alarm and Indicators
Enclosure IP	IP22 – Rack Mount Version required
LCD Display	Frequency Meter Voltage Meter Current Meter Power Meter PF Meter
Connectors	Hard-Wire Terminals, EN60309, MIL-STD, or client choice

5. Environment

Temperature	Operational: -10C~55C Ambient: -10C~45C
Noise	<65dB at 1 meter, EN55022, IEC1000-4
Humidity	10~90% non-condensing
Cooling	Variable speed fan, air intake in base, exhaust at rear
Altitude	<1800 meters
Castors or Feet	0.5-3kkVA have rubber feet and lifting handles, 4kVA+ have castors with front brakes. A/Vs or feet optional

6. Reliability and efficiency

Mean Time Between Failure (MTBF)	50,000Hrs
Mean Time to Restore (MTTR)	<30 minutes
Overall Efficiency	· 85%

7. Dimensions and weight

Dimensions	430X650X600mm
Weight	92kg

8. Standards

CE	CE Marked, UL Conforming
Standards	GB 50054-95, GB 50150-1991, GB 50150-2006, GB 50171-1992, GB/T 16935.5-2008, GB/T 16935.4-2011
Additional standards	EN IEC61000-3-2, EN 6100-3-3, EN55032, EN55035, MIL-STD 461, MIL-STD 704, STANAG 1008

PX Electronics Limited
Unit 13B, Southview Park, Marsack Street, Reading, RG4 5AF, United Kingdom
Company Registration # 13831134 | VAT # GB 452 3378 93

Technical enquiries
+44 118 206 7525
info@pxelectronic.com
www.pxelectronic.com