

# PXe-DC-AC Series 400Hz DC-AC Converter

PXe-28-30000.5F to PXe-28-30002F | 0.5-2kVA | 24-28Vdc input | 115/200V 3PH 400Hz output

PXe-DC-AC Series converters provide regulated three-phase 400Hz AC output from a 24-28Vdc source, with available ratings of 0.5kVA, 1kVA, 1.5kVA and 2kVA. The range provides 115V line-to-neutral / 200V line-to-line output for specialist 400Hz applications.

The specification below records the electrical, control, environmental, mechanical and compliance details for the available configurations.



**Rated capacity**  
0.5 / 1 / 1.5 / 2kVA

**Input**  
24-28Vdc

**Output**  
115V L-N / 200V L-L, 3PH

**Frequency**  
400Hz

## 1. General

|             |                                                                   |
|-------------|-------------------------------------------------------------------|
| Model range | PXe-28-30000.5F   PXe-28-30001F   PXe-28-30001.5F   PXe-28-30002F |
| Capacity    | 0.5kVA   1kVA   1.5kVA   2kVA                                     |
| Phase       | DC in / Three Phase AC out                                        |

## 2. Input

|                 |                |
|-----------------|----------------|
| Input Voltage   | 24-28Vdc       |
| Input Frequency | N/A - DC input |

## 3. Output

|                                      |                                                                                              |
|--------------------------------------|----------------------------------------------------------------------------------------------|
| Nominal Voltage                      | 115V (L-N) / 200V (L-L), 3 Phase + N + G                                                     |
| Rated Current                        | 1.4A per phase (0.5kVA)   2.8A (1kVA)   4.3A (1.5kVA)   5.7A (2kVA)                          |
| Frequency                            | 400Hz                                                                                        |
| 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 | 1.414                                                                                        |
| Overload Capacity                    | 100% continuous, <110% - 15 minutes, <125% - 10 minutes, <150% - 1 minute, <200% - 5 seconds |

# Control, environment and compliance

Remaining specification values for the PXe-DC-AC Series configurations

## 4. Control, protection and enclosure

|              |                                                                                     |
|--------------|-------------------------------------------------------------------------------------|
| Interface    | RS232C std, RS485, GPIB, Ethernet optional                                          |
| Protection   | Over Current, Overload, Over Voltage, Overheat, Short Circuit, Alarm and Indicators |
| Enclosure IP | IP22                                                                                |
| LCD Display  | Frequency Meter<br>Voltage Meter<br>Current Meter<br>Power Meter<br>PF Meter        |
| Connectors   | Hard-Wire Terminals, EN60309, MIL-STD, or client choice                             |

## 5. Environment

|                 |                                                                                                            |
|-----------------|------------------------------------------------------------------------------------------------------------|
| Temperature     | Operational: -10C~55C<br>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 | 0.5-3kVA 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 | Dependent on model selected |
| Weight     | Dependent on model selected |

## 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          |

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