

DATASHEET

PX SERIES POWER PRODUCTS

Solid State Frequency Converter AC Power Supply

1kVA ~ 200kVA

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About

PX Electronic specialise in the design of electrical power measuring instrumentation. Including power analysers, High Voltage Switching, HiPot Testing, ground bond testing and DC loads. Our product expertise and consultancy includes applications associated with electrical safety equipment, AC power analysis, energy instruments and current sensors and current probes. Applications include EV, wind turbines, green power, automation, military power systems, power electronics, power conversion, electric cars, generators, motors, fans and pumps.

Our range of Test & Measuring products includes power analysers, single & three phase watt meters measuring from DC to 2MHz along with HV related switching and IR measurement products.

PX offers PC based software solutions. This enables PX measuring instruments and transducers to be controlled via USB, Ethernet, RS232, RS485 and IEEE-488 interfaces. Various display and storage options are available to suit the customer's need. An "in house" software customisation service is available.

PX has a global support network, enabling us to distribute our products worldwide from a variety of distributors and representatives to meet the needs of our customers.

PX Series Solid State Frequency Converters - AC Power Supply PX Series - 1kVA ~ 2000kVA



Main Features

- Double conversion
- SPWM and IGBT Technology
- Low harmonic distortion and THD
- Fixed and variable frequency selection
- Pure sine wave output
- Isolated output transformer
- LED/LCD display key buttons
- Comprehensive protection features
- Single-phase and three-phase availability

PX Series

1kVA ~ 2000kVA

AC Power Supply

Solid State Frequency Converter

The PXe Series Static Frequency Converters are versatile devices used to convert AC power frequency from one value to another. They are capable of converting frequencies such as 50Hz to 60Hz, 60Hz to 50Hz, 50Hz to 400Hz, and 60Hz to 400Hz. These converters also allow for user-defined frequency conversions, such as 6.67Hz, 25Hz, and 100Hz





Applications

- Home appliance
- Electrical equipment
- Laboratory and test
- Aviation and avionics
- Marine electronics
- Motors and pumps

PX Electronics LTD® POWER SOLUTION EXPERT

We are committed to providing reliable power products and solutions to customers around the world.

Good Quality

PX Electronics PX series solid state/ static frequency converters are one of the most popular AC power supplies for industrial and commercial applications.

Function

PX AC power supplies are designed to change AC power at 50Hz to 60Hz or 60Hz to 50Hz, or convert conventional 50/60 Hertz to 400Hz or convert 50/60Hz to 16.67Hz/25Hz/100Hz.

Advanced Technology

PX Electronics PX series static converters adopt built-in rectifiers to convert incoming AC power into DC and then invert the DC into the desired frequency and voltage through IGBT and built-in isolation transformers.

Main Job

PX Electronics PX series features many advantages, making them ideal not only for export product testing or operation of imported equipment, but also for applications such as the testing of military/avionics equipment or for the operation of 400 hertz electronics that are on board an aircraft or a military vessel.



Model Selection

Model Selection of PX Electronics PX series solid state frequency converter shown below



TECHNICAL SPECIFICATION

Capacity	Single Phase output units: 1 kVA, 3kVA, 5kVA, IOkVA, 15kVA, 20kVA, 30kVA, 50kVA, 60kVA, 75kVA, 100kVA, 150kVA, 200kVA (Select One specific kVA) 3-Phase output units: 1kVA, 3kVA, 6kVA, 9kVA, 15kVA, 20kVA, 30kVA, 45kVA, 60kVA, 100kVA, 150kVA, 200kVA, 300kVA, 400kVA, 500kVA~20ookvA (Select One kVA)		
Input			
Single phase	110Vac ±10%, 115Vac ± 10%, 120Vac ± 10%		
(Select One Individual Voltage)	127Vac ±10%, 220Vac ±10%,230Vac ±10%, 240Vac ±10%		
Three phase (Select One Individual Voltage)	115-127(L-N)/200-220V(L- L) ±10%, 220-240(L-N)/380-415V(L-L)±10%, 3Phase+N		
	440V(L-L) ±10%, 480V(L-L)±5% , 3 Phase+G		
Frequency	50Hz/60Hz ±5%,400Hz(Optional)		
Power Factor	~ 0.8 (standard type)		
	~ 0.9 (optional type, 12 pulse)		
Output			
Single phase (Select One Individual Voltage)	Fixed	110V, 115V, 120V, 127V, 220V, 230V, 240V	
	Adjustable	Two Range: 0~150V;0~300V	
Three phase (Select One Individual Voltage)	Fixed	115/200V(L-N/L-L), 120/208V(L-N/L-L), 127/220V(L-N/L-L), 220/380V (L-N/L-L), 230/400V(L-N/L-L), 240/415V(L-N/L-L), 254/440V(L-N/L-L), 277/480V(L-N/L-L), 3Phase+N	
	Adjustable	Two Range: 0~2 60V(L-L)/0~520V(L-L), 3Phase+N	
Frequency	Standard	50Hz, 60Hz, 100Hz, 200Hz, 45-200Hz(adjustable)	
	Optional	400Hz,40Hz~500Hz (adjustable),16.67Hz, 25Hz,400-1000Hz	

Voltage Accuracy	≤±1% FS (Full Scale)	
Frequency Accuracy	≤ ±0.01% FS (Full Scale)	
Total harmonic distortion	THD ≤ 3% @ linear load, pure sine wave output	
Crest	3:1	
Overload	100% for continuous, 101-200% shut down in 200mS	
Interface	None for standard units, RS232/RS485/GPI B(Optional)	
Protection	over current, over load, over voltage	
	over heat, short circuit, alarm and indicators	
Enclosure IP	IP22 (Standard) , IP32, IP54 (Optional) Or as per requirement	
LED/LCD display	Digital frequency meter	
	Digital voltage meter	
	Digital current meter	
	Digital power/PF meter	
Working Conditions		
Temperature	Operation: -I0°C~55°C	
	Ambient: -I0°C~45°C	
Noise	≤ 65dB at 1 meter	
Humidity	10~90% non-condensing	
Altitude	≤ 1800m	
Reliability and Efficiency		
Mean Time Between Failure(MTBF)	50,000H	
Mean Time To Restore(MTTR)	< 30 min	
Overall efficiency	≥85%	
Chandanda	GB 50054-95,GB 50150-1991, GB 50150-2006, GB 50171-1992, EN55032, EN55035	
Standards	GB/T 16935.5-2008,GB/T16935.4-2011,EN IEC61000-3-2,EN 6100-3-3	

PX Electronics Reserves the right to change or modify product design, construction, specification or material without prior notice and without incurring any obligation.



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Services

PX Electronics offer various solutions to help with customers power application requirements. We focus on environmental considerations, load arrangement optimization, power capacity matching advice, customised design and technical support.

Short Delivery

Our models are available from stock, with most being ready within 2-4 weeks for standard models. please feel free to contact us if you want a shorter lead time on certain products, we will do our best to support.

Customised Solutions

PX Electronics are able to provide customised solutions for customers upon request.

We can help with technical requests and look at bespoke solutions for customers with limited space, harsh operating environments and more.

















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