

400Hz Static Frequency Converter

Safe, reliable aircraft ground power for the most severe conditions

With advanced pulse-width modulated technology, the Dynapower 400Hz frequency converter safely and reliably delivers quality power to aircraft while reducing operating expenses and maximizing revenue.

Our solid state 400Hz frequency converter is the most flexible and reliable solution on the market today. It services all types of aircraft — up to A380 and including B787, A350, and New Generation Aircraft (NGA) — under the most severe ambient conditions, cleanly and securely.

With its industry-leading reliability and ease of maintenance, this system is a highly efficient solution that keeps your total cost of ownership to a minimum. It features advanced controls, data logging, diagnostics, and communication protocols for comprehensive monitoring, as well as a NEMA 12 enclosure to repel dirt and dust. It complies with and exceeds the highest industry standards.



TECHNICAL SPECIFICATIONS

Input

Nominal Input Voltage:	380, 400, 415, 440, 480V Three Phase
Frequency:	45 to 65 Hz
Input Phase Rotation:	ANY
Inrush Current:	None (soft start to rated power)
Power Factor:	>0.93 at 100% load

Output

Rated Output Power (kVA):	20, 40, 62.5 and 125 kVA
Output Frequency:	400Hz
Nominal Output Voltage:	208/120Y Vac Three Phase + N°
Voltage Distortion with Linear Load:	<3%
Voltage Recovery:	Meets or exceeds MIL-STD-704F
Voltage Balance:	+/- 1% for balanced loads, +/- 2% for 25% unbalanced loads
Harmonic Content:	1.5% max, 1% typical (line to line or line to neutral)
Measured Input to Output Efficiency:	93.5%
Soft Start:	0 to 100% in 60 seconds, adjustable
Overload:	In. x 1.1 for 60 minutes In. x 2.0 for 1 second

Protections

Overload
Short circuit
Over and under voltage (per MIL-STD-704F)
Over temperature
Isolation
Access door interlock
Aircraft 28VDC E/F interlock

Environmental

Enclosure:	NEMA 12 equivalent rated steel enclosure
Audible Noise Level:	<63 dBA at 1M
Operating Temperature:	0° to 40°C (Derated up to 50°C)
Relative Humidity:	<95% non-condensing
Ingress Protection Degree:	IP20 as standard

Standards Compliance

Meets or exceeds:	UFGS 26 35 43
	MIL-STD-704F
	BS2G-219
	NFPA 70
	SAE ARP-5015
	DFS-400



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