

RUGGED GALAXY SERIES

FREQUENCY CONVERTERS

COMPACT 1U-4U CHASSIS

700W-4KW OUTPUT POWER

UNIVERSAL 120/240VAC PFC INPUT

50-60-400 HZ OUTPUT

OPTIONAL SNMP COMMUNICATIONS

WHEN EVERY POUND COUNTS!



APPLICATIONS

Utilizing field proven high frequency technology, this family of rugged solid-state sinewave frequency converters is suitable for harsh environments and can be customized for unique applications including:

- Shelters
- Tactical Systems
- Shipboard power
- MIL-STD-810
- MIL-S-901
- HMMWVs
- Mobile Systems
- Ground support
- MIL-STD-461
- MIL-STD-1399



NOVA ELECTRIC
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A Leader in DC-AC Inverter Technology since 1966 - 500VA to 500+KVA

MADE IN USA

ULTRA-LIGHTWEIGHT SOLID-STATE FREQUENCY CONVERTER

MEETS MIL-STD-810, MIL-STD-1399, MIL-S-901, MIL-STD-740, MIL-STD-167 & MIL-STD-461

APPLICATIONS

Nova's Lightweight Galaxy-Series Frequency Converter Systems are high-reliability power sources specifically designed for demanding applications in high shock, vibration, humidity and EMI environments in compliance to MIL-STD-1399, MIL-STD-461, MIL-STD-901, MIL-STD-167, MIL-STD-810, MIL-STD-740, and DOD-STD-1399. These models utilize Solid-State technology, offering maximum field-proven reliability.

OPTIONS

- 400 Hz input and / or output
- Internal battery backup (UPS)
- Ruggedization against high shock, vibration, and humidity
- MS connector mates
- Chassis slide guides
- Custom enclosures
- 3Ø Power Input Output breaker

ELECTRICAL

Input Voltage: 120/240 VAC Autoselect PFC (3Ø input optional)
 Output Voltage: 120/208/230 VAC (specify)
 Frequency: 50 / 60 / 400 Hz. Available
 Voltage Regulation: $\pm 2\%$ NL to FL
 Frequency Regulation: $\pm 0.5\%$ NL to FL
 Harmonic Distortion: 5% THD, 3% typical
 Input Power Factor: 0.95 or Better @ half-full load
 Efficiency at full load: 80-85% @ full load typical
 Connections: MS Connector (mates opt.)

NOMINAL DIMENSIONS

Frequency Converter Dimensions:

19" Wide x 24" Deep
 (see model chart for height)

PROTECTIVE FEATURES

Input Circuit Breakers, Overload & Thermal Protected, Input Under/Overvoltage Protected, Optional Audible Alarm with Silence Switch.

SPECIFICATIONS

ENVIRONMENTAL

Operating Temp.: -20° to +50°C (Extended ranges optional)
 Storage temperature range: -40° to +71°C
 Humidity: to 95% RH non-condensing per MIL-STD-810.
 All boards conformal coated with Acrylic MIL-I-46058 Type R.
 Elevation: 15,000 Ft. (4,572m) operating;
 40,000 ft. (12,192m) non-operating
 Shock: 20g, 11 ms half sinewave per MIL-STD-810
 Audible Noise: Less than 55 dbA at 5 ft.
 EMI: MIL-STD-461
 MTBF: 100,000+ hours per field data @ +25C Ambient
 Ground-Fixed
 MTTR: 30 minutes by qualified personnel

OPTIONAL REMOTE CONTACTS/COMMUNICATIONS

SNMP V1.0 (Available-Optional) via CAT-5 Connector
 RS 232 (Available-Optional) Via DB 9 Connector
 Alarm Contacts (Available-Optional)
 Optional Audible Alarm with Silence Switch.

PARTIAL MODEL SELECTION

PARTIAL 60 HZ OUTPUT MODELS

MODEL	KVA	KW	NOMINAL INPUT	INPUT FREQ.	OUTPUT VAC	OUTPUT FREQ.	F.C. LBS.	HEIGHT
GLFCPFC-5K60-120/240A-120-4U	5	4	120-240VAC	50/60Hz	120	60Hz	45	4U
GLFCPFC-3K60-120/240A-120-4U	3	3	120-240VAC	50/60Hz	120	60Hz	42	4U
GLFCPFC-3K60-120/240A-120-3U	3	2.4	120-240VAC	50/60Hz	120	60Hz	40	3U
GLFCPFC-2K60-120/240A-120-3U	2	1.6	120-240VAC	50/60Hz	120	60Hz	40	3U
GLFCPFC-1.5K60-120/240A-120-2U	1.5	1.2	120-240VAC	50/60Hz	120	60Hz	30	2U
GLFCPFC-1K60-120/240A-120-1U	0.9	0.7	120-240VAC	50/60Hz	120	60Hz	25	1U

50HZ OUTPUT MODELS

MODEL	KVA	KW	NOMINAL INPUT	INPUT FREQ.	OUTPUT VAC	OUTPUT FREQ.	F.C. LBS.	HEIGHT
GLFCPFC-5K50-120/240A-230-4U	5	4	120-240VAC	50/60Hz	230	50Hz	45	4U
GLFCPFC-3K50-120/240A-230-4U	3	3	120-240VAC	50/60Hz	230	50Hz	42	4U
GLFCPFC-3K50-120/240A-230-3U	3	2.4	120-240VAC	50/60Hz	230	50Hz	40	3U
GLFCPFC-2K50-120/240A-230-3U	2	1.6	120-240VAC	50/60Hz	230	50Hz	40	3U
GLFCPFC-1.5K50-120/240A-230-2U	1.5	1.2	120-240VAC	50/60Hz	230	50Hz	30	2U
GLFCPFC-1K50-120/240A-230-1U	0.9	0.7	120-240VAC	50/60Hz	230	50Hz	25	1U

