

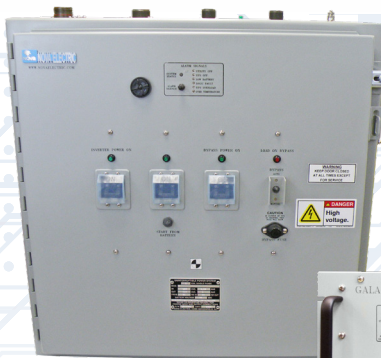


ULTRA LIGHTWEIGHT SOLID-STATE FREQUENCY CONVERTERS

When Every Pound Counts!



- MIL-Spec Qualified
- Field Proven Reliability
- Compact, Lightweight Chassis
- PFC Universal Input



100 School Street, Bergenfield, NJ 07621 USA • (201) 385-0500 • novaelectric.com • info@novaelectric.com

Some optional equipment shown. Specifications subject to change without notice.

Rev B-January-9-2020



NOVA ELECTRIC

Universal 120/240 VAC PFC
Single-Phase Input

Three-Phase (non-PFC)
Input Optional

Advanced SNMP
Communications

APPLICATIONS

- Shipboard Power
- Shelters
- Tactical Systems
- Aircraft
- HMMWVs
- Mobile Systems
- Ground Support
- Transit Cases

COMPLIANCE

- MIL-STD-1399
- MIL-STD-461
- MIL-S-901
- MIL-STD-167
- MIL-STD-810
- MIL-STD-740
- DOD-STD-1399

CONTACT

100 School Street,
Bergenfield, NJ 07621 USA

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novaelectric.com
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ULTRA LIGHTWEIGHT GALAXY SERIES 0.9 – 5 KVA SOLID-STATE FREQUENCY CONVERTERS

Product Features

- Compact Chassis
- Ultra Lightweight Design
- Power Factor Corrected Universal Input (Single Phase Models)
- Advanced SNMP Communications Optional

WHEN EVERY POUND COUNTS!

Nova's Ultra 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-S-901, MIL-STD-167, MIL-STD-810, MIL-STD-740, and DOD-STD-1399. These models offer maximum field-proven reliability for severe environment applications such as:

Military Applications

- HMMWV
- UAV
- Shipboard
- Submarine
- Aircraft
- Mobile Power Units
- Shelters
- Transportable Systems
- Tactical Systems
- Ground Support
- Drone Systems

Heavy-Duty Industrial Applications

Demanding Commercial Applications Communications Systems



**700 W - 4 KW BULKHEAD
MOUNT CABINET**



4U / 3 OR 4 KW



3U / 1.6 OR 2.4 KW



2U / 1.2 KW



1U / 700 W



**TRANSIT CASES
OPTIONAL**



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Input Optional

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COMPLIANCE

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- MIL-STD-461
- MIL-S-901
- MIL-STD-167
- MIL-STD-810
- MIL-STD-740
- DOD-STD-1399

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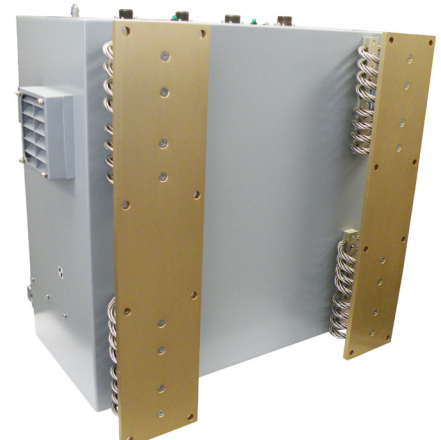


ULTRA LIGHTWEIGHT GALAXY SERIES BULKHEAD MOUNT SOLID-STATE FREQUENCY CONVERTERS

- 700 W - 4 KW Bulkhead Mount Cabinet
- Optional Shock Mounts Shown for MIL-S-901 Compliance



- Protection up to IP54 Optional
- In Active Service On Hundreds of US and US-Friendly Military Platforms Worldwide



- Cabinet Dimensions: 30" High x 24" Wide x 16" Deep
- Internal Battery Backup Optional

The Leader In Rugged Power Conversion Technology Since 1966

Some optional equipment shown. Specifications subject to change without notice.



NOVA ELECTRIC

Universal 120/240 VAC PFC
Single-Phase Input

Three-Phase (non-PFC)
Input Optional

Advanced SNMP
Communications

APPLICATIONS

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- Shelters
- Tactical Systems
- Aircraft
- HMMWVs
- Mobile Systems
- Ground Support
- Transit Cases

COMPLIANCE

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- MIL-STD-461
- MIL-S-901
- MIL-STD-167
- MIL-STD-810
- MIL-STD-740
- DOD-STD-1399

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SPECIFICATIONS

Electrical

INPUT VOLTAGE	120/240 VAC Autoselect PFC (3Ø Input Optional)
OUTPUT VOLTAGE	120, 208, or 230 VAC (Specify)
FREQUENCY	50 / 60 / 400 Hz. Available
VOLTAGE REGULATION	± 2% NL to FL
FREQUENCY REGULATION	± 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 (Batteries Charged)
CONNECTIONS	MS Connector (Mates Optional)
OVERLOAD	110% load for 10 minutes 115% load for 5 minutes 120% load for 2 minutes
DIMENSIONS	19" Wide x 24" Deep (See Chart For Height)

Indicators

- AC Input On
- AC Output On

Protective Features

- Input Circuit Breakers
- Overload Protection Range: Automatic
Overload & Short Circuit Protection
- Thermal Protected
- Trip Overload & Thermal Protected
- Input Under/Overvoltage Protected
- Optional Audible Alarm with Silence Switch

POPULAR OPTIONS

- Power Distribution Units
- MS Connector Mates and Multiple Output
Outlets
- Chassis Slide Guides
- Custom Enclosures
- Battery Backup Capability
- 3Ø Power Input
- 400 Hz Input and / or Output
- CAD Free Connectors
- RTCA/DO-160G Compliant Aircraft Grade
Package
- Non-PVC wiring
- High IP Protection for front / rear panels
- AUX DC Outputs
- Rugged Transit Cases
- Environmental Stress Screening Services

Environmental

- Operating Temp. -20° to +55°C
(Extended Ranges Optional)
- Storage Temperature Range
-40° to +71°C
- Humidity to 95% RH Non-condensing
(All Boards Conformal Coated with Acrylic
MIL-I-46058 Type R.)
- Elevation 15,000 Ft. (4,572 m) Operating;
40,000 Ft. (12,192 m) Non-operating
- Shock 20 g, 11 mS Half Sinewave
- 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

Standard Remote Contacts

- Major Alarm: Logic Fault, Overtemperature,
Frequency Converter Overload
- Minor Alarm: Utility Off
- SNMP V1.0 (Available-Optional) via
CAT-5 Connector
- RS 232 (Available-Optional) Via DB 9 Connector
- Alarm Contacts (Available-Optional)

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Some optional equipment shown. Specifications subject to change without notice.



NOVA ELECTRIC

Universal 120/240 VAC PFC
Single-Phase Input

Three-Phase (non-PFC)
Input Optional

Advanced SNMP
Communications

APPLICATIONS

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COMPLIANCE

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- DOD-STD-1399

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Fully Qualified To:

MIL-STD-1399 Section 300B: For Type I
apparatus

MIL-STD-740-1: Airborne Sound Measurements for
Shipboard Equipment

MIL-STD-740-2: Structureborne Vibratory
Acceleration Measurements

**Additional Ruggedization to meet
MIL-S-901, MIL-STD-167, MIL-STD-810,
and DOD-STD-1399:** The UPS System's
construction is extremely robust, and ruggedized
throughout. All components and modules within the
unit are mounted using additional steel brackets and
heavy-duty stainless-steel hardware, which is then
further secured using Loctite and RTV where required.
All boards are conformal-coated (Acrylic MIL-I-46058
Type R) for maximum resistance to potential
condensation and fungus growth.

MIL-S-901 for Grade A, Class I, Type A Equipment
(with optional shock mounts)

MIL-STD-167-1 for Type I Equipment

MIL-STD-810:

- Air Temperature per MIL-STD-810F Method 502.4,
Procedure II
- Steady State Temperature per MIL-STD-810F, Method
501.4, Procedure I (Constant Temperature) and Method
502.4, Procedure I
- Temperature Shock per MIL-STD-810F, Method 503.4,
Procedure II, Cyclic.
- Thermal Shock testing per MIL-STD-810G, Method
503.5, Procedure I-D Operating Temperature Shock per
MIL-STD-810B Method 503.0 to 71°C
- High Temperature Storage per MIL-STD-810G, Method
501.5, Procedure I
- Low Temperature Storage testing per MIL-STD-810G,
Method 502.5, Procedure I
- High Temperature Operating per MIL-STD-810G,
Method 501.5, Procedure II
- Low Temperature Operating per MIL-STD-810G,
Method 502.5, Procedure II
- Operational Humidity per MIL-STD-810F Method 507.4.
- Humidity per MIL-STD-810G, Method 507.5, Procedure I
- Storage and Transportation Humidity per
MIL-STD-810F, Method 507.4
- Salt Fog Atmosphere per MIL-STD-810F Method 509.4
- Altitude per MIL-STD-810F, Method 500.4, Procedure I,
Storage/Air Transport.
- Operating and Non-Operating Altitude Testing per
MIL-STD-810G, Method 500.5, Procedure II
- Rapid Decompression per MIL-STD-810F,
Method 500.4, Procedure III
- Transit Shock per MIL-STD-810F, Method 516,
Procedures IV, V and VI
- Transportation Vibration per MIL-STD-810F,
Method 514.5, Procedure II for loose cargo
transportation
- Transportation Vibration per MIL-STD-810G,
Method 514-6, Procedure I, Category 20

- Vibration per MIL-STD-810B Method 514.6,
Category 12, Procedure I
- Transit Drop per MIL-STD-810F, Method 516.5,
Procedure IV
- Transit Drop per MIL-STD-810G, Method 516.6,
Procedure IV
- Bench Handling per MIL-STD-810F, Method 516.5,
Procedure VI
- Bench Handling per MIL-STD-810G, Method 516.6,
Procedure VI

DOD-STD-1399 Section 301A Table V – Design
Limits for Ship Motion

Internal EMI Reduction Package to meet

MIL-STD-461: The design of this military UPS unit
is specifically focused on reducing EMI emissions. The
military UPS contains substantial internal filtering to
minimize EMI emissions. Inputs which may be
susceptible to transients are protected by several
methods. The compact chassis is specifically treated
with low surface resistivity finishes on the interior. All
aluminum parts are treated with clear irridite. The steel
parts are treated with zinc plate, followed by a clear
chromate. Paint method via ANSI-61 gray is designed to
assure excellent bonding of mating sheet metal parts.
All input and output ventilation filters include metal
honeycomb-style or mesh filters. This military UPS unit
was tested and qualified as follows:

MIL-STD-461E: CE101, CE102, CS101, CS114, CS116,
RE102, RS101, and RS103.



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Some optional equipment shown. Specifications subject to change without notice.

PARTIAL RACK MOUNT MODEL SELECTION

60 Hz Output Models

MODEL	KVA	KW	NOMINAL INPUT	INPUT FREQ	OUTPUT VAC	OUTPUT FREQ	F.C. (LBS)	HEIGHT
GLFCPFC5K60-120/240A-120-4U	5	4	120-240 VAC	50/60Hz	120	60Hz	45	4U
GLFCPFC3K60-120/240A-120-4U	3	3	120-240 VAC	50/60Hz	120	60Hz	42	4U
GLFCPFC3K60-120/240A-120-3U	3	2.4	120-240 VAC	50/60Hz	120	60Hz	40	3U
GLFCPFC2K60-120/240A-120-3U	2	1.6	120-240 VAC	50/60Hz	120	60Hz	30	3U
GLFCPFC1.5K60-120/240A-120-2U	1.5	1.2	120-240 VAC	50/60Hz	120	60Hz	30	2U
GLFCPFC1K60-120/240A-120-1U	0.9	0.7	120-240 VAC	50/60Hz	120	60Hz	25	1U

**Specifications subject to change without notice.*

50 Hz Output Models

MODEL	KVA	KW	NOMINAL INPUT	INPUT FREQ	OUTPUT VAC	OUTPUT FREQ	F.C. (LBS)	HEIGHT
GLFCPFC5K50-120/240A-230-4U	5	4	120-240 VAC	50/60Hz	230	50Hz	45	4U
GLFCPFC3K50-120/240A-230-4U	3	3	120-240 VAC	50/60Hz	230	50Hz	42	4U
GLFCPFC3K50-120/240A-230-3U	3	2.4	120-240 VAC	50/60Hz	230	50Hz	40	3U
GLFCPFC2K50-120/240A-230-3U	2	1.6	120-240 VAC	50/60Hz	230	50Hz	30	3U
GLFCPFC1.5K50-120/240A-230-2U	1.5	1.2	120-240 VAC	50/60Hz	230	50Hz	30	2U
GLFCPFC1K50-120/240A-230-1U	0.9	0.7	120-240 VAC	50/60Hz	230	50Hz	25	1U

**Specifications subject to change without notice.*

400 Hz Output Models

MODEL	KVA	KW	NOMINAL INPUT	INPUT FREQ	OUTPUT VAC	OUTPUT FREQ	F.C. (LBS)	HEIGHT
GLFCPFC5K400-120/240A-115-4U	5	4	120-240 VAC	50/60Hz	115	400Hz	45	4U
GLFCPFC3K400-120/240A-115-4U	3	3	120-240 VAC	50/60Hz	115	400Hz	42	4U
GLFCPFC3K400-120/240A-115-3U	3	2.4	120-240 VAC	50/60Hz	115	400Hz	40	3U
GLFCPFC2K400-120/240A-115-3U	2	1.6	120-240 VAC	50/60Hz	115	400Hz	30	3U
GLFCPFC1.5K400-120/240A-115-2U	1.5	1.2	120-240 VAC	50/60Hz	115	400Hz	30	2U
GLFCPFC1K400-120/240A-115-1U	0.9	0.7	120-240 VAC	50/60Hz	115	400Hz	25	1U

**Specifications subject to change without notice.*



PARTIAL BULKHEAD CABINET MODEL SELECTION

60 Hz Output Models

MODEL	KVA	KW	NOMINAL INPUT	INPUT FREQ	OUTPUT VAC	OUTPUT FREQ	F.C. (LBS)
GHFCPFC5K60-120/240A-120	5	4	120-240 VAC	50/60Hz	120	60Hz	85
GHFCPFC3K60-120/240A-120	3	3	120-240 VAC	50/60Hz	120	60Hz	79
GHFCPFC3K60-120/240A-120	3	2.4	120-240 VAC	50/60Hz	120	60Hz	79
GHFCPFC2K60-120/240A-120	2	1.6	120-240 VAC	50/60Hz	120	60Hz	75
GHFCPFC1.5K60-120/240A-120	1.5	1.2	120-240 VAC	50/60Hz	120	60Hz	69
GHFCPFC1K60-120/240A-120	0.9	0.7	120-240 VAC	50/60Hz	120	60Hz	65

**Specifications subject to change without notice.*

50 Hz Output Models

MODEL	KVA	KW	NOMINAL INPUT	INPUT FREQ	OUTPUT VAC	OUTPUT FREQ	F.C. (LBS)
GHFCPFC5K50-120/240A-230	5	4	120-240 VAC	50/60Hz	230	50Hz	85
GHFCPFC3K50-120/240A-230	3	3	120-240 VAC	50/60Hz	230	50Hz	79
GHFCPFC3K50-120/240A-230	3	2.4	120-240 VAC	50/60Hz	230	50Hz	79
GHFCPFC2K50-120/240A-230	2	1.6	120-240 VAC	50/60Hz	230	50Hz	75
GHFCPFC1.5K50-120/240A-230	1.5	1.2	120-240 VAC	50/60Hz	230	50Hz	69
GHFCPFC1K50-120/240A-230	0.9	0.7	120-240 VAC	50/60Hz	230	50Hz	65

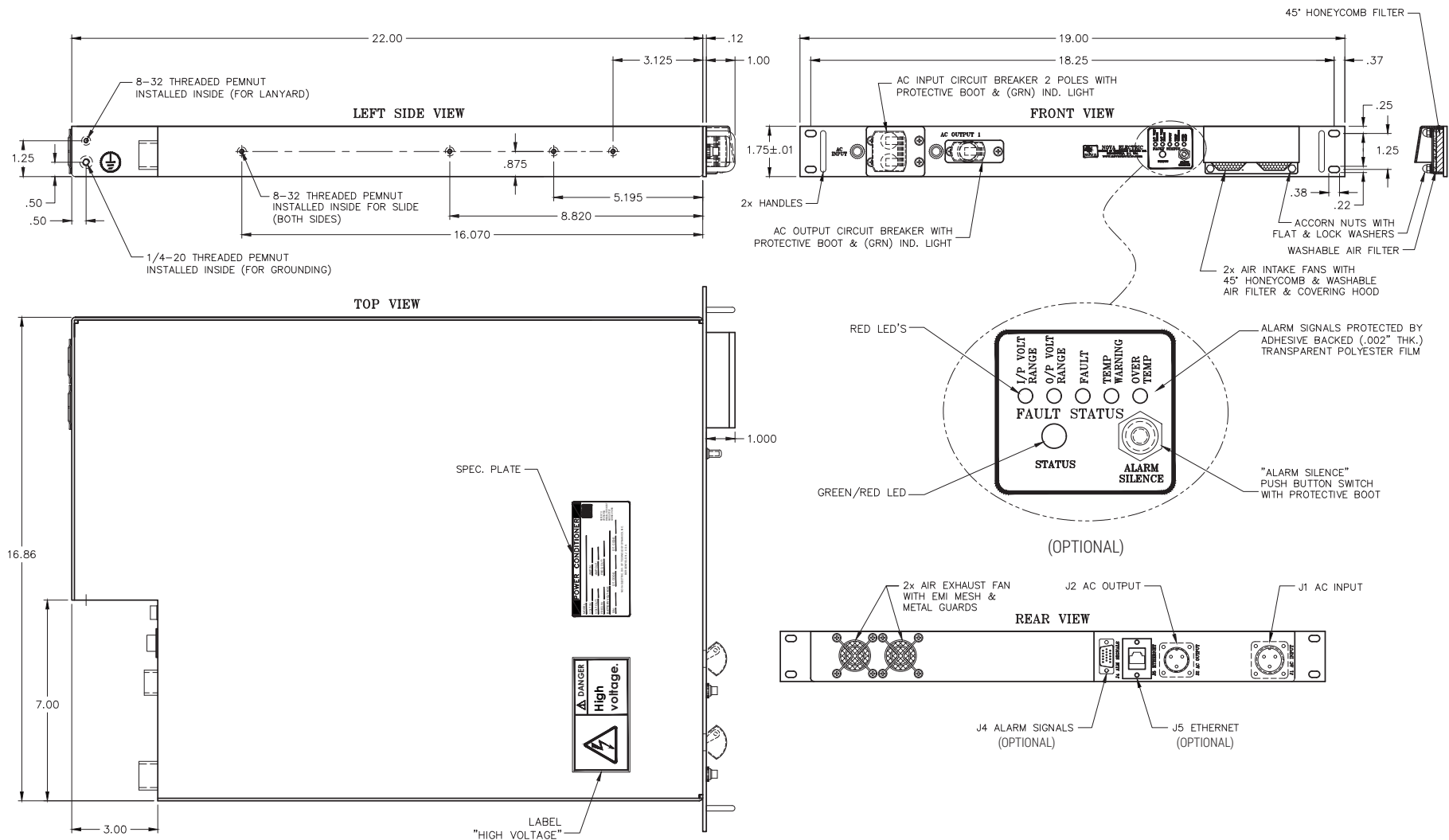
**Specifications subject to change without notice.*

400 Hz Output Models

MODEL	KVA	KW	NOMINAL INPUT	INPUT FREQ	OUTPUT VAC	OUTPUT FREQ	F.C. (LBS)
GHFCPFC5K400-120/240A-115	5	4	120-240 VAC	50/60Hz	115	400Hz	85
GHFCPFC3K400-120/240A-115	3	3	120-240 VAC	50/60Hz	115	400Hz	79
GHFCPFC3K400-120/240A-115	3	2.4	120-240 VAC	50/60Hz	115	400Hz	79
GHFCPFC2K400-120/240A-120	2	1.6	120-240 VAC	50/60Hz	115	400Hz	75
GHFCPFC1.5K400-120/240A-115	1.5	1.2	120-240 VAC	50/60Hz	115	400Hz	69
GHFCPFC1K400-120/240A-115	0.9	0.7	120-240 VAC	50/60Hz	115	400Hz	65

**Specifications subject to change without notice.*





CONNECTOR PIN DESIGNATIONS

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. ALL UNDIMENSIONED PICTORIAL CONFIGURATIONS ARE FOR REFERENCE ONLY.
3. FRONT AND REAR MARKING FOR REFERENCE ONLY.
4. FINISH: YELLOW IRRIDITE (CLASS-3), THEN PRIME & EDGES - ANSI #61 GRAY SEMI-GLOSS. ALL OTHER SURFACES ARE IRRIDITED (ALUMINUM).
5. FRONT AND REAR PANELS SILK-SCREENED IN BLACK EPOXY INK.

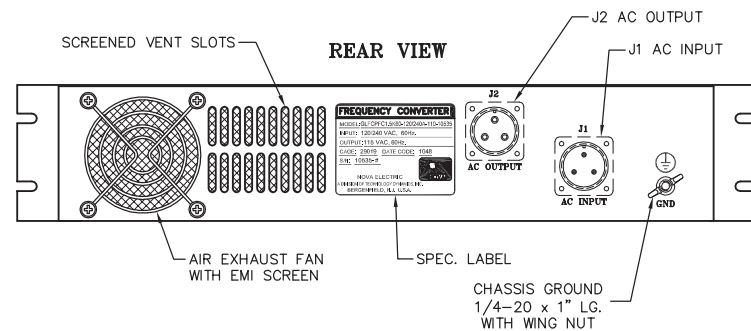
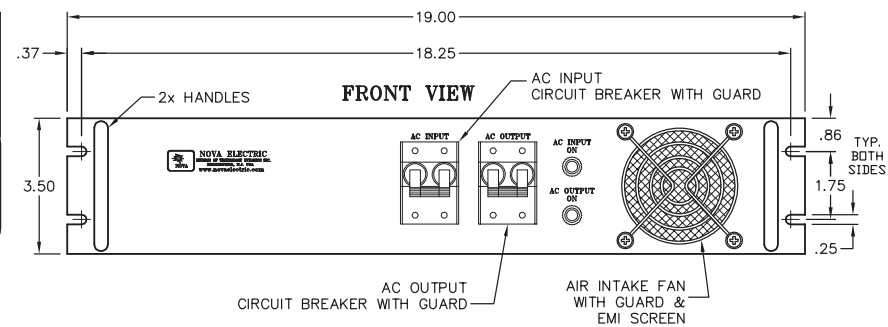
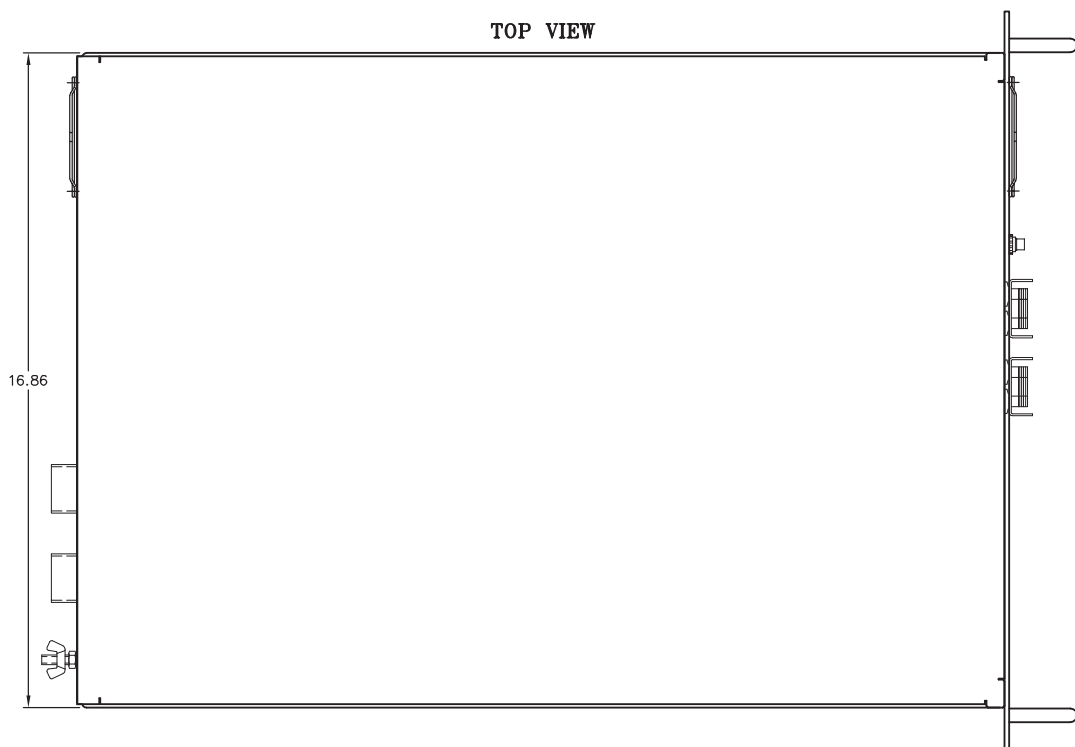
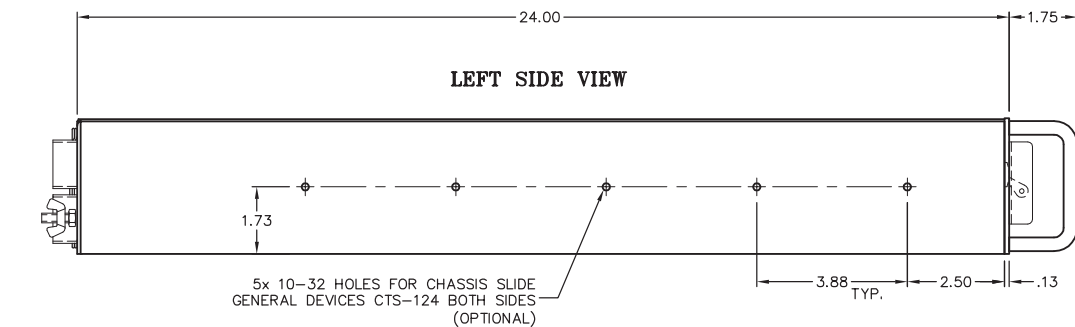
J1 AC INPUT	
PIN	DESCRIPTION
A	Phase A, 115VAC
B	Phase B, 115VAC
C	SAFETY GROUND

J2 AC OUTPUT	
PIN	DESCRIPTION
A	120VAC (Line 1)
B	120VAC (Neutral)
C	SAFETY GROUND

J4 ALARM SIGNALS (OPTIONAL)	
PIN	DESCRIPTION
1 & 2	POWER ON/RTN
3	SPARE
4 & 5	BATTLES/RTN
6 & 7	POWER OUTPUT ON/RTN
8 & 9	OVER TEMP WARN/RTN
11 & 12	OVER TEMP UNSAFE/RTN
10 & 13	SPARE
14 & 15	PWR CONDITIONER FAULT/RTN

J5 SNMP ETHERNET (OPTIONAL)	
PIN	DESCRIPTION
1	100/10 Base TX/RX Signal

TYPICAL 1U CHASSIS



NOTES:

1. ALL DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE SPECIFIED.
2. ALL UNDIMENSIONED PICTORIAL CONFIGURATIONS ARE FOR REFERENCE ONLY.
3. FRONT AND REAR MARKINGS FOR REFERENCE ONLY.
4. FRONT PANEL PAINTED - ANSI #61 GRAY SEMI-GLOSS.
5. FRONT PANEL SILK-SCREEN IN BLACK EPOXY INK.

CONNECTOR PIN DESIGNATIONS

J1 AC INPUT	
MS3102R20-19P	
PIN	DESCRIPTION
A	LINE
B	NEUTRAL
C	GND

J2 AC OUTPUT	
MS3102R20-19S	
PIN	DESCRIPTION
A	LINE
B	NEUTRAL
C	GND

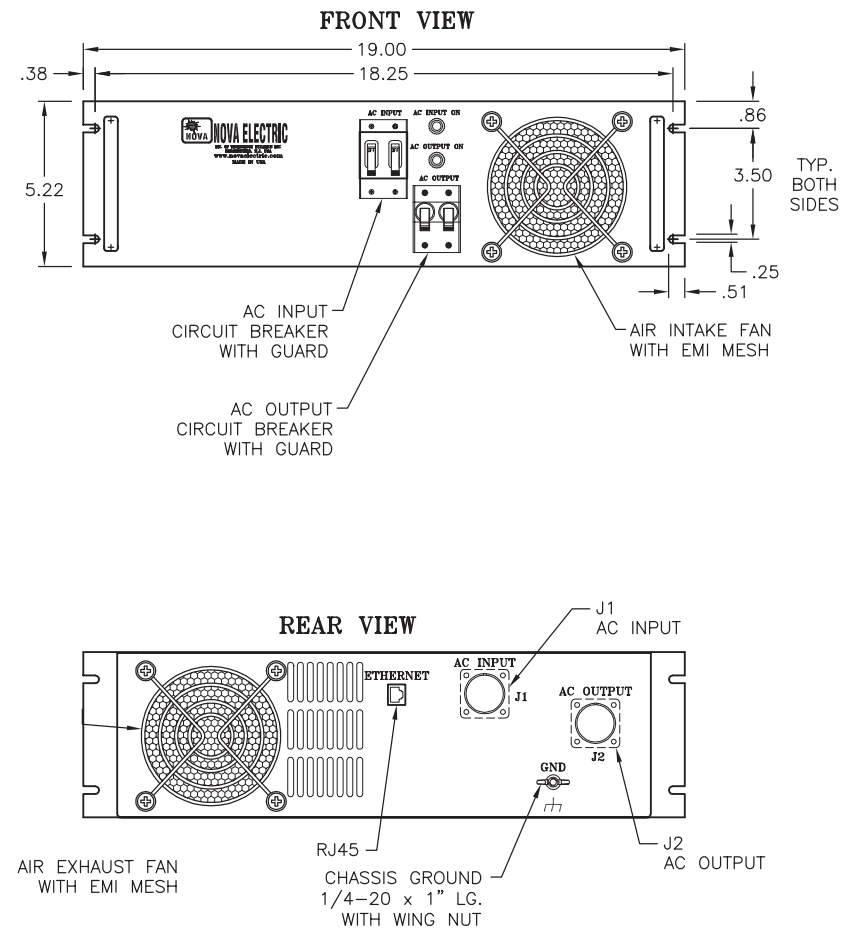
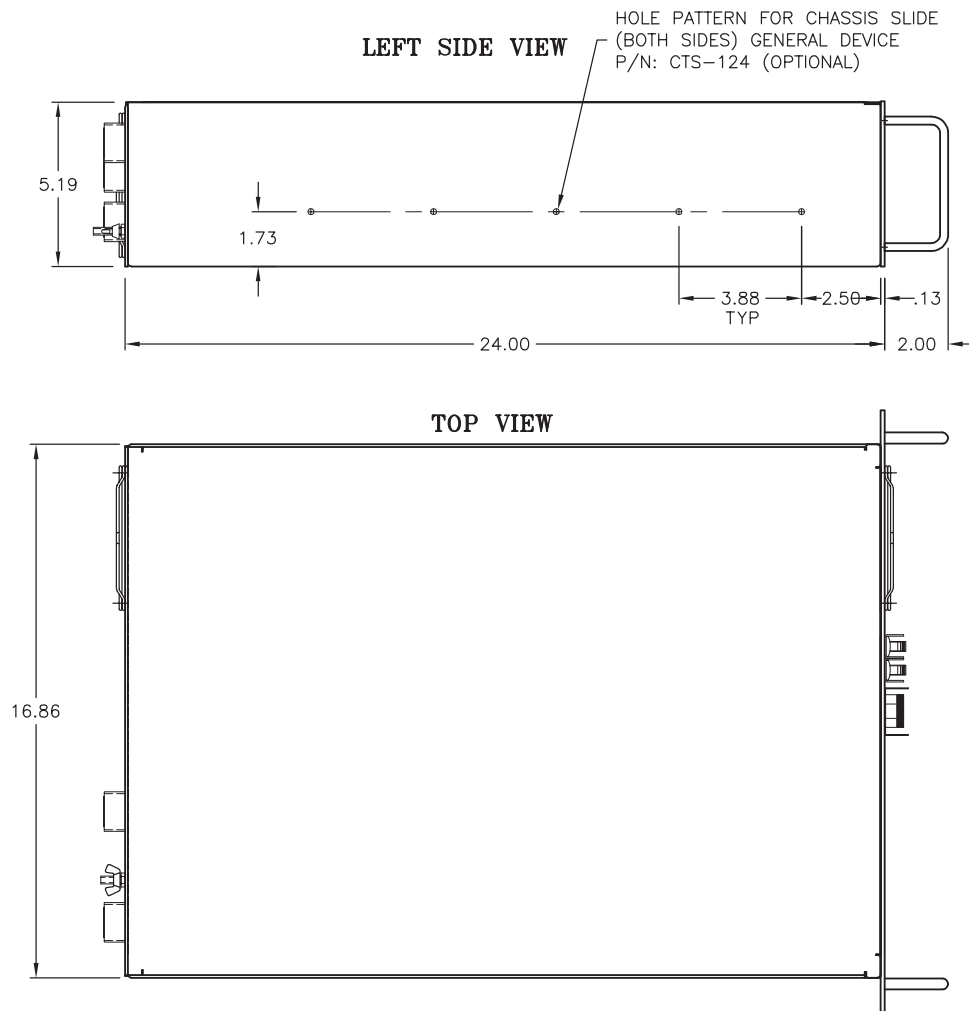
TYPICAL 2U CHASSIS



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Some optional equipment shown. Specifications subject to change without notice.





NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. EXTERIOR COLOR ANSI #61 GRAY SEMI-GLOSS. (FRONT PANEL ONLY). OTHER SURFACES YELLOW IRRIDITE.
3. APPROXIMATE WEIGHT: 40.00 LBS. (APPROX.)

CONNECTORS PIN DESIGNATION

J1 AC INPUT		J2 AC OUTPUT	
PIN	DESCRIPTION	PIN	DESCRIPTION
A	LINE	A	LINE
B	NEUTRAL	B	NEUTRAL
C	GND	C	GND

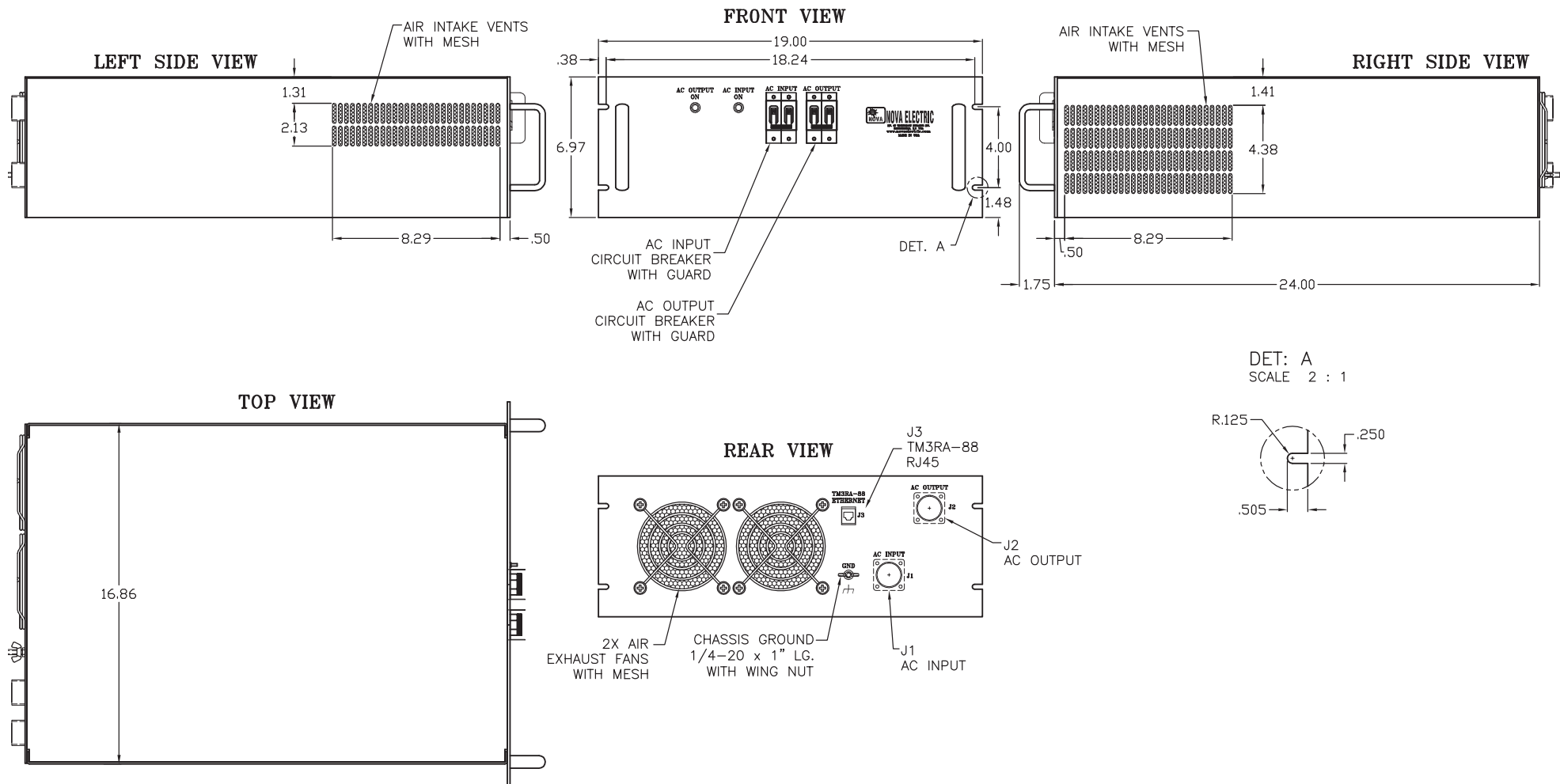
TYPICAL 3U CHASSIS



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Some optional equipment shown. Specifications subject to change without notice.





NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. EXTERIOR COLOR ANSI #61 GRAY SEMI-GLOSS. (FRONT PANEL ONLY). OTHER SURFACES YELLOW IRRIDITE.
3. APPROXIMATE WEIGHT: 45.00 LBS. (APPROX.)

CONNECTORS PIN DESIGNATION

J1 AC INPUT

PIN	DESCRIPTION
A	LINE
B	NEUTRAL
C	GND

J2 AC OUTPUT

PIN	DESCRIPTION
A	LINE
B	NEUTRAL
C	GND

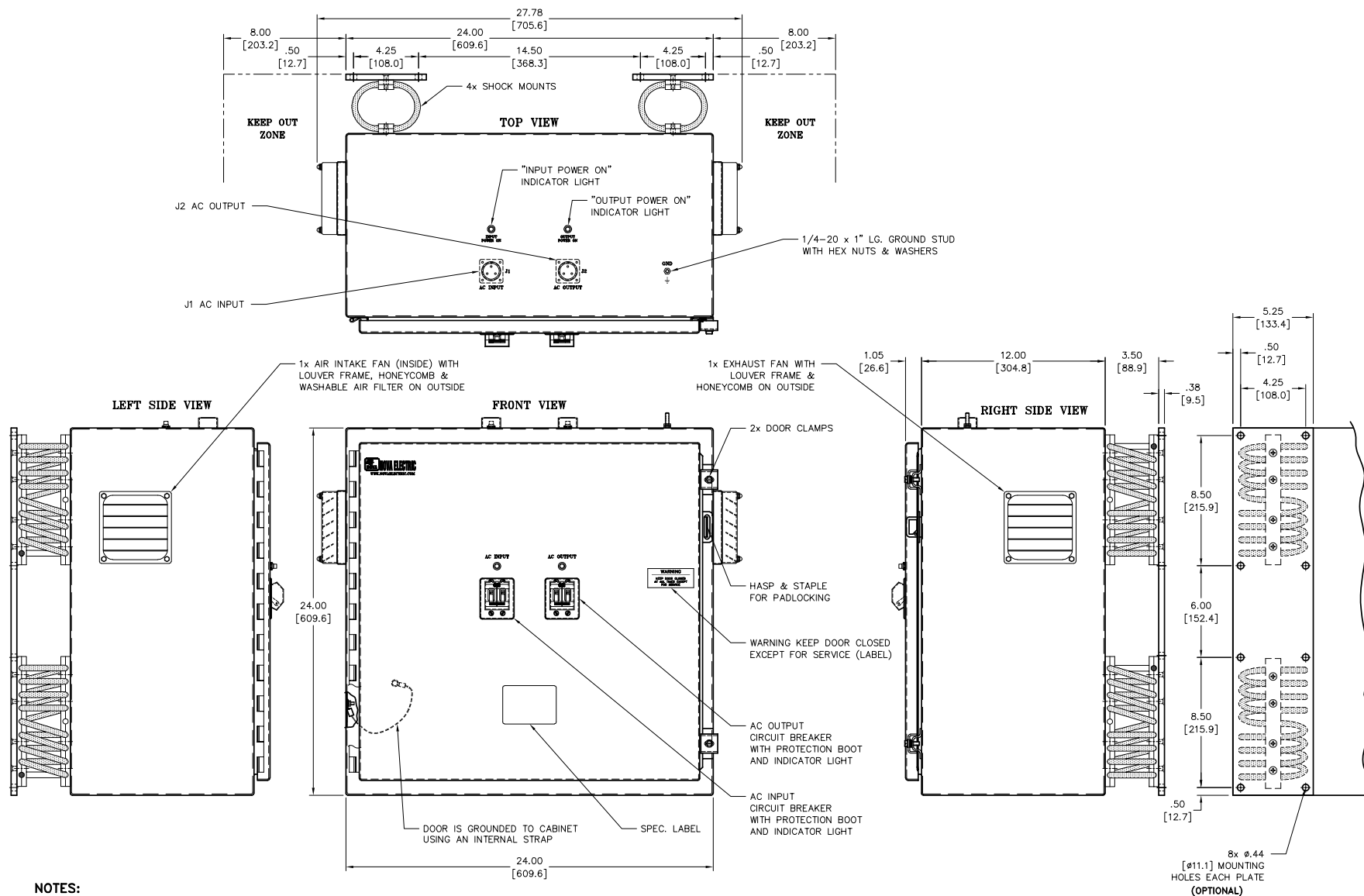
TYPICAL 4U CHASSIS



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Some optional equipment shown. Specifications subject to change without notice.





NOTES:

1. ALL DIMENSIONS ARE IN INCHES, & MILLIMETERS [mm].
2. ALL UNDIMENSIONED PICTORIAL CONFIGURATIONS ARE FOR REFERENCE ONLY.
3. FRONT AND TOP MARKINGS FOR REFERENCE ONLY.
4. NOMINAL CABINET DIMENSIONS: 24" HIGH x 24" WIDE x 12" DEEP.
5. ENCLOSURE PAINTED ANSI# 61 GRAY WITH BLACK EPOXY LETTERING.
6. MAXIMUM DEFLECTION: 2.5" (OPTIONAL) SHOCK SWAY SPACE KEEP OUT ZONES IN ALL 3 ORIENTATIONS.
7. 8" VENTILATION KEEP OUT ZONES ON EITHER SIDE OF CABINET.

CONNECTOR PIN DESIGNATIONS

J1 AC INPUT		J2 AC OUTPUT	
PIN	DESCRIPTION	PIN	DESCRIPTION
A	LINE	A	LINE
B	NEUTRAL	B	NEUTRAL
C	GROUND	C	GROUND

BULKHEAD MOUNT CABINET



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RUGGED AC POWER SYSTEMS



SELECT UNITS QUALIFIED TO MIL-STD-810, MIL-S-901, MIL-STD-1399, MIL-STD-461, MIL-STD-167, MIL-STD-740, RTCA/DO-160, AND MORE

RUGGED TRUE ONLINE UPS



500 W – 500+ KW

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

50, 60, and 400 Hz.

PURE SINEWAVE DC-AC INVERTERS



100 W – 500+ KW

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

50, 60, and 400 Hz.

SOLID-STATE FREQUENCY CONVERTERS



100 W – 500+ KW

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

50, 60, and 400 Hz.

POWER DISTRIBUTION UNITS (PDUs)



Basic, Switched, Auto-Transfer Switching, and Metered Configurations

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

CUSTOM EMI FILTERS



For MIL-STD-461 Compliance

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

RUGGED PORTABLE TRANSFORMERS



100 W – 500+ KW

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

EXTERNAL MAINTENANCE BYPASS SWITCHES (MBSSs)



Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

CUSTOM DESIGNS



Designed & Built to Spec

Integrated AC & DC Capabilities

Multiple Outputs

RELIABLE AC POWER WHEN AND WHERE YOU NEED IT SEVERE ENVIRONMENT PRODUCTS



- AIRBORNE
- SHIPBOARD
- MOBILE
- RACK MOUNT & FREESTANDING

- 50, 60, AND 400 Hz
- AIR & WATER COOLED
- SINGLE AND THREE PHASE
- LIGHTWEIGHT DESIGNS

