



ULTRA LIGHTWEIGHT RUGGED TRUE ONLINE UPS

When Every Pound Counts!



- MIL-Spec Qualified
- Field Proven Reliability
- Compact, Lightweight Chassis
- Advanced Communications





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

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(201) 385-0500

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ULTRA-LIGHTWEIGHT RUGGED GALAXY SERIES UPS

When Every Pound Counts!

Product Features

- Compact Chassis
- Ultra Lightweight Design
- Power Factor Corrected Universal Input (Single Phase Models)
- Advanced SNMP Communications
- Lithium Iron Phosphate Batteries Available
- AC or DC Outputs Available

WHEN EVERY POUND COUNTS!

Nova's Ultra Lightweight Galaxy-Series UPS 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 utilize True On-Line technology, offering maximum field-proven reliability for severe environment and high reliability applications such as:

Military Applications

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

Heavy-Duty Industrial Applications

Demanding Commercial Applications Communications Systems



TRANSIT CASES
OPTIONAL



**700 W - 6 KVA BULKHEAD
MOUNT CABINETS**



5U / 4 KW



4U / 3/4/4.8 KW



3U / 3 KW



2U / 1.2 KW



1U / 700 W



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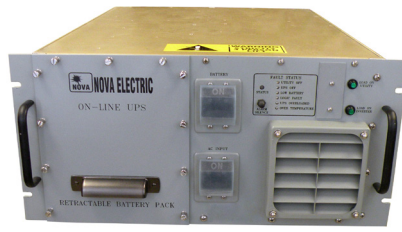
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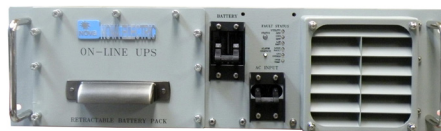
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5U / 4 KW Ultra Lightweight UPS is available with standard VRLA, premium Cyclon, or advanced LiFePO4 Batteries to provide up to 4 minutes at 3 KW load. External battery packs are available for additional run time.



4U Ultra Lightweight UPS is available as either 3 KW output with internal batteries or 4 / 4.8 KW with external batteries. Battery options include standard VRLA, premium Cyclon, or advanced LiFePO4 Batteries. See Partial Model Selection Chart for run time details. Additional external battery packs are available for more run time.



3U Ultra Lightweight UPS is available as either 2.4 KW output with up to 5 minutes run time using internal batteries, or 1.6 KW output with up to 7 minutes run time using internal batteries. Battery options include standard VRLA, premium Cyclon, or advanced LiFePO4 Batteries. External battery packs are available for additional run time.



2U / 1.2 KW Ultra Lightweight UPS is available with standard VRLA, premium Cyclon, or advanced LiFePO4 Batteries to provide up to 5 minutes at full load. External battery packs are available for additional run time.



1U / 700 W Ultra Lightweight UPS is available with advanced LiFePO4 Batteries to provide up to 10 minutes at full load. External battery packs are available for additional run time.

The Leader In Rugged Power Conversion Technology Since 1966

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



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Universal 120/240 VAC PFC
Single-Phase Input

Three-Phase (non-PFC)
Input Optional

Advanced SNMP
Communications

APPLICATIONS

- Shipboard Power
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- HMMWVs
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- Transit Cases

COMPLIANCE

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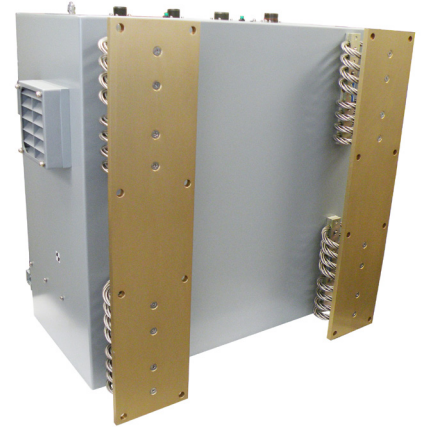
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GALAXY SERIES ULTRA LIGHTWEIGHT 0.9-6 KVA RUGGED TRUE ONLINE BULKHEAD-MOUNT UPS

- Optional Shock Mounts Shown for MIL-S-901 Compliance
- In Active Service On Hundreds of US and US-Friendly Naval Vessels Worldwide
- Protection up to IP54 Optional
- Standard VRLA, Premium Long-Life / Wide-Temperature Cells, and Advanced LiFePO4 Batteries Available

700W-2 KVA CABINETS



3-6 KVA CABINETS



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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
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- MIL-STD-167
- MIL-STD-810
- MIL-STD-740
- DOD-STD-1399

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Specifications

Electrical

INPUT VOLTAGE	120/240 VAC (105 - 250 VAC) PFC (3Ø Input Optional)
AC OUTPUT VOLTAGE	115, 120, 208, 220, 230 or 240 VAC (Specify)
DC OUTPUT VOLTAGE (OPTIONAL)	24, 28, or 280 VDC with Centertap (Specify)
FREQUENCY	50 / 60 / 400 Hz. Available (DC Also 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)

Indicators

- Status (Red / Green)
- UPS Off (Red)
- UPS Off (Red)
- Logic Fault (Red)
- Low Battery (Red)
- Over Temperature (Red)
- Load on Utility (Red) with Optional
Transfer Switch

Audible

- Audible Alarm with Silence Switch

Batteries

Internal on all but 5KVA EXT models

- Standard sealed, maintenance free lead acid batteries have -20°C to +50°C storage range.
- Optional Premium sealed, maintenance free lead acid batteries have -40°C to +80°C operating range and useful life of 8-12 years @ +25°C ambient.
- Optional Lithium Iron Phosphate batteries (as shown in units with "LiFe" model suffix) typically have -20°C to +60°C operating range and useful life of 8-10 years @ +25°C ambient, but are much lighter than lead acid batteries.

Protective Features

- AC & DC Input Circuit Breakers
- Low Battery
- Shut Off with Circuit Breaker
- Trip Overload & Thermal Protected
- Input Under/Overvoltage Protected
- Audible Alarm with Silence Switch

Environmental

- UPS Operating Temp. -20° to +55°C
(Extended Ranges Optional)
- UPS Storage Temperature Range
-40° to +71°C
(Electronics Only - Extended Ranges Optional)
- 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
(Higher Optional)
- Shock 20 g, 11 ms Half Sinewave
- Audible Noise Less than 55 dbA at 5 ft.
- MTBF 100,000+ Hours per Field Data
@ +25C Ambient Ground-Fixed
- MTTR 30 minutes by Qualified Personnel

Communications

- SNMP V1.0 standard via CAT-5 Connector
(V3.0 Optional)
- RS 232 (Available-Optional) Via DB 9 Connector
- Alarm Contacts (Available-Optional)
- Major Alarm Logic Fault, Low Battery, OT,
UPS Overloaded
- Minor Alarm: Utility Off, Load on Utility
(With optional transfer switch)

Available Options

- Power Distribution Units
- Ruggedization Against High Shock,
Vibration and humidity
- MS Connector Mates and Multiple Output
Outlets
- Chassis Slide Guides
- Internal Transfer Switch
(Static or Electromechanical)
- Custom Enclosures
- Additional Run Time via External Batteries
- 3Ø Power Input
- Premium VRLA Batteries with Up to 10 Year
Life
- 400 Hz Input and / or Output
- LiFe" Models Feature Internal Lithium Iron
Phosphate Batteries for Substantial Weight
Savings and Longer Runtime, Including
Embedded Battery Management System
- CAD Free Connectors
- Non-PVC wiring
- 28 VDC Input
- High IP Protection for front / rear panels
- AUX DC Outputs
- RTCA/DO-160G Compliant Aircraft Grade
Package

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Input Optional

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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 Ultra Lightweight UPS
Systems shown herein are designed to comply with the
requirements of MIL-STD-461E using shielded input,
output, and data cables. Test data to other revisions of
MIL-STD-461 is available for select models. (If the input
and output cables are not shielded, additional filtering
may be required for full compliance to MIL-STD-461.)
All single-phase input units in this series are equipped
with active Power factor Correction which allows full
compliance to the input current requirements of
MIL-STD-1399 and the CE101 limit of MIL-STD-461.
Please note: Not all models and choices of input
voltages and output voltages shown in the model chart
have been formally tested for each of the following
MIL-STD-461E parameters shown below. In such cases,
Nova cannot guarantee full compliance without a formal
testing program for your specific UPS configuration,
available optionally. Please consult the factory for
details.

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

OPTIONAL Compliance to RTCA/DO-160G:

Select units were tested successfully by Boeing and
Collins Aerospace to meet RTCA/DO-160G for:

Rapid Decompression: Section 4 Cabin Pressure (8K) to
Max Operating Alt (35K) in 15 sec; Hold for 10 min

Crash Safety Sustained: Section 7, Cat B – Up = 3.0g –
Down = 6.0g – Fwd = 9.0g – Aft = 1.5g – Side = 4.0g

Explosive Atmosphere: Non-Ignition Test Sec. 9.6.2, Cat E

Humidity: Section 6, paragraph 6.3.1 (Category A)

Random Vibration Testing: Section 8 (Category R,
Fixed-Wing), paragraph 8.7.2, Figure 8-1: Aircraft Type 2,
Test Category S, Zone 2, Curve B

Operational Shock Testing: Section 7 (Category B),
paragraph 7.2, Standard operational, Peak value 6 g,
Nominal duration 11 ms.

*Note: Qualification testing on select models was
performed with optional premium batteries required to
meet temperature testing requirements. Please consult
factory for details.*



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PARTIAL RACK MOUNT MODEL SELECTION

120 VAC OUTPUT MODELS (400Hz Input and/or Output Optional On All Models)

MODEL	KVA	KW	NOMINAL INPUT	INPUT AMPS	UPS LBS.	RUNTIME	HEIGHT
GRSLPFC11-5K60-120/240A-120-5M-5U	5	4	120-240 VAC	52/26A	110	4 min @ 3 KW	5U
GRSLPFC11-5K60-120/240A-120-5M-5U-LIFE	5	4	120-240 VAC	52/26A	75	4 min @ 3 KW	5U
GRSLPFC11-5K60-120/240A-120-4U	5	4	120-240 VAC	52/26A	45	External	4U
GRSLPFC11-3K60-120/240A-120-5M-4U	3	3	120-240 VAC	30/15A	95	5 min.	4U
GRSLPFC11-3K60-120/240A-120-5M-4U-LIFE	3	3	120-240 VAC	30/15A	70	5 min.	4U
GRSLPFC11-3K60-120/240A-120-10M-4U	3	2.4	120-240 VAC	24/12A	95	7 min.	4U
GRSLPFC11-3K60-120/240A-120-5M-3U	3	2.4	120-240 VAC	24/12A	80	5 min.	3U
GRSLPFC11-3K60-120/240A-120-5M-3U-LIFE	3	2.4	120-240 VAC	24/12A	65	5 min.	3U
GRSLPFC11-2K60-120/240-120-5M-3U	2	1.6	120-240 VAC	16/8A	80	7 min.	3U
GRSLPFC11-2K60-120/240-120-5M-3U-LIFE	2	1.6	120-240 VAC	16/8A	65	7 min.	3U
GRSLPFC11-1.5K60-120/240A -120-5M-2U	1.5	1.2	120-240 VAC	12/6A	60	5 min.	2U
GRSLPFC11-1.5K60-120/240A -120-5M-2U-LIFE	1.5	1.2	120-240 VAC	12/6A	37	5 min.	2U
GRSLPFC11-1K60-120/240A-120-10M-1U-LIFE	0.9	0.7	120-240 VAC	8/4A	25	10 min.	1U

230 VAC OUTPUT MODELS (400Hz Input and/or Output Optional On All Models)

MODEL	KVA	KW	NOMINAL INPUT	INPUT AMPS	UPS LBS.	RUNTIME	HEIGHT
GRSLPFC11-6K50-230-230-4U	6	4.8	200-240 VAC	30A	60	External	4U
GRSLPFC11-5K50-120/240A-230-5M-5U-LIFE	5	4	120-240 VAC	52/26A	75	4 min @ 3 KW	5U
GRSLPFC11-5K50-120/240A-230-4U	5	4	120-240 VAC	52/26A	45	External	4U
GRSLPFC11-3K50-120/240A-230-5M-4U	3	3	120-240 VAC	30/15A	95	5 min.	4U
GRSLPFC11-3K50-120/240A-230-5M-4U-LIFE	3	3	120-240 VAC	30/15A	70	5 min.	4U
GRSLPFC11-3K50-120/240A-230-10M-4U	3	2.4	120-240 VAC	24/12A	95	7 min.	4U
GRSLPFC11-3K50-120/240A-230-5M-3U	3	2.4	120-240 VAC	24/12A	80	5 min.	3U
GRSLPFC11-3K50-120/240A-230-5M-3U-LIFE	3	2.4	120-240 VAC	24/12A	65	5 min.	3U
GRSLPFC11-2K50-120/240A-230-5M-3U	2	1.6	120-240 VAC	16/8A	80	7 min.	3U
GRSLPFC11-2K50-120/240A-230-5M-3U-LIFE	2	1.6	120-240 VAC	16/8A	65	7 min.	3U
GRSLPFC11-1.5K50-120/240A-230-5M-2U	1.5	1.2	120-240 VAC	12/6A	60	5 min.	2U
GRSLPFC11-1.5K50-120/240A-230-5M-2U-LIFE	1.5	1.2	120-240 VAC	12/6A	37	5 min.	2U
GRSLPFC11-1K50-120/240A-230-10M-1U-LIFE	0.9	0.7	120-240 VAC	8/4A	25	10 min.	1U



PARTIAL RACK MOUNT MODEL SELECTION

*Three Phase Input Models (400 Hz Input and/or Output Optional On All Models)

MODEL	KVA	KW	NOMINAL INPUT	INPUT AMPS	UPS LBS.	RUNTIME	HEIGHT
GRSLPFC11-5K60-120/208-120-5M-5U	5	4	120-208 VAC 3Ø	15A	110	4 min @ 3 KW	5U
GRSLPFC11-5K60-120/208-5M-5U-LIFE	5	4	120-208 VAC 3Ø	15A	75	4 min @ 3 KW	5U
GRSLPFC11-3K60-120/208-120-5M-4U	3	3	120-208 VAC 3Ø	11A	95	5 min.	4U
GRSLPFC11-3K60-120/208-120-5M-4U-LIFE	3	3	120-208 VAC 3Ø	9A	70	5 min.	4U
GRSLPFC11-3K60-120/208 -120-10M-4U	3	2.4	120-208 VAC 3Ø	9A	95	7 min.	4U
GRSLPFC11-3K60-120/208 -120-5M-3U	3	2.4	120-208 VAC 3Ø	9A	80	5 min.	3U
GRSLPFC11-3K60-120/208 -120-5M-3U-LIFE	3	2.4	120-208 VAC 3Ø	9A	65	5 min.	3U
GRSLPFC11-2K60-120/208 -120-5M-3U	2	1.6	120-208 VAC 3Ø	6A	80	7 min.	3U
GRSLPFC11-2K60-120/208 -120-5M-3U-LIFE	2	1.6	120-208 VAC 3Ø	6A	65	7 min.	3U
GRSLPFC11-1.5K60-120/208 -120-5M-2U	1.5	1.2	120-208 VAC 3Ø	5A	60	5 min.	2U
GRSLPFC11-1.5K60-120/208 -120-5M-2U-LIFE	1.5	1.2	120-208 VAC 3Ø	5A	37	5 min.	2U

*Three-Phase Input Models do not have PFC and are not compliant with the harmonics requirements of MIL-STD-1399. Please see our Navy Galaxy Series for MIL-STD-1399 Compliant Three-Phase Input UPSs.

DC Output Models (400 Hz Input Optional on all Models) - Other DC Input Voltages Available

MODEL	KVA	KW	NOMINAL INPUT	INPUT AMPS	UPS LBS.	RUNTIME	HEIGHT
GRSLPFC11-1.5K-120/240A-28VDC-5M-2U-LIFE	NA	1.5	120-240 VAC	15/7.5A	37	5 min	2U
GRSLPFC11-1K-120/240A-28VDC-10M-1U-LIFE	NA	1.0	120-240 VAC	10/5A	25	10 min	1U



PARTIAL BULKHEAD MOUNT SELECTION

120 VAC Output Models (400 Hz Input and/or Output Optional On All Models)

MODEL	KVA	KW	NOMINAL INPUT	INPUT AMPS	UPS LBS.	UPS (KG)	RUNTIME	SIZE (IN) HxWxD
GHSLPFC11-5K60-120/240A-120-5M	5	4	120-240 VAC	52/26A	250	113.6	5 min.	30 x 24 x 16
GHSLPFC11-5K60-120/240A-120-10M-LIFE	5	4	120-240 VAC	52/26A	230	104.5	10 min.	30 x 24 x 16
GHSLPFC11-3K60-120/240A-120-5M	3	3	120-240 VAC	30/15A	230	104.5	5 min.	30 x 24 x 16
GHSLPFC11-3K60-120/240A-120-5M-LIFE	3	3	120-240 VAC	30/15A	210	95.5	10 min.	30 x 24 x 16
GHSLPFC11-3K60-120/240A-120-7M	3	2.4	120-240 VAC	24/12A	225	102.3	7 min.	30 x 24 x 16
GHSLPFC11-3K60-120/240A-120-10M-LIFE	3	2.4	120-240 VAC	24/12A	200	90.9	10 min.	30 x 24 x 16
GHSLPFC11-2K60-120/240-120-5M	2	1.6	120-240 VAC	16/8A	195	88.6	5 min.	24 x 24 x 12
GHSLPFC11-2K60-120/240-120-10M-LIFE	2	1.6	120-240 VAC	16/8A	170	77.3	10 min.	24 x 24 x 12
GHSLPFC11-1.5K60-120/240A-120-5M	1.5	1.2	120-240 VAC	12/6A	180	81.8	5 min.	24 x 24 x 12
GHSLPFC11-1.5K60-120/240A-120-10M-LIFE	1.5	1.2	120-240 VAC	12/6A	160	72.7	10 min.	24 x 24 x 12
GHSLPFC11-1K60-120/240A-120	0.9	0.7	120-240 VAC	8/4A	165	75.0	5 min.	24 x 24 x 12
GHSLPFC11-1K60-120/240A-120-LIFE	0.9	0.7	120-240 VAC	8/4A	145	65.9	10 min.	24 x 24 x 12

230 VAC Output Models (400 Hz Input and/or Output Optional On All Models)

MODEL	KVA	KW	NOMINAL INPUT	INPUT AMPS	UPS LBS.	UPS (KG)	RUNTIME	SIZE (IN) HxWxD
GHSLPFC11-6K50-230-230-5M	6	4.8	200-240 VAC	30A	250	113.6	5 min.	30 x 24 x 16
GHSLPFC11-5K60-120/240A-230-5M	5	4	120-240 VAC	52/26A	250	113.6	5 min.	30 x 24 x 16
GHSLPFC11-5K60-120/240A-230-10M-LIFE	5	4	120-240 VAC	52/26A	230	104.5	10 min.	30 x 24 x 16
GHSLPFC11-3K60-120/240A-230-5M	3	3	120-240 VAC	30/15A	230	104.5	5 min.	30 x 24 x 16
GHSLPFC11-3K60-120/240A-230-5M-LIFE	3	3	120-240 VAC	30/15A	210	95.5	5 min.	30 x 24 x 16
GHSLPFC11-3K60-120/240A-230-7M	3	2.4	120-240 VAC	24/12A	225	102.3	7 min.	30 x 24 x 16
GHSLPFC11-3K60-120/240A-230-10M-LIFE	3	2.4	120-240 VAC	24/12A	200	90.9	10 min.	30 x 24 x 16
GHSLPFC11-2K60-120/240-230-5M	2	1.6	120-240 VAC	16/8A	195	88.6	5 min.	24 x 24 x 12
GHSLPFC11-2K60-120/240-230-10M-LIFE	2	1.6	120-240 VAC	16/8A	170	77.3	10 min.	24 x 24 x 12
GHSLPFC11-1.5K60-120/240A-230-5M	1.5	1.2	120-240 VAC	12/6A	180	81.8	5 min.	24 x 24 x 12
GHSLPFC11-1.5K60-120/240A-230-10M-LIFE	1.5	1.2	120-240 VAC	12/6A	160	72.7	10 min.	24 x 24 x 12
GHSLPFC11-1K60-120/240A-230	0.9	0.7	120-240 VAC	8/4A	165	75.0	5 min.	24 x 24 x 12
GHSLPFC11-1K60-120/240A-230-LIFE	0.9	0.7	120-240 VAC	8/4A	145	65.9	10 min.	24 x 24 x 12

*Three Phase Input Models (400 Hz Input and/or Output Optional On All Models)

MODEL	KVA	KW	NOMINAL INPUT	INPUT AMPS	UPS LBS.	UPS (KG)	RUNTIME	SIZE (IN) HxWxD
GHSLPFC11-5K60-120/208-120-5M-5U	5	4	120-240 VAC	15A	250	113.6	5 min.	30 x 24 x 16
GHSLPFC11-5K60-120/208-120-10M-LIFE	5	4	120-240 VAC	15A	230	104.5	10 min.	30 x 24 x 16
GHSLPFC11-3K60-120/208-120-5M	3	3	120-240 VAC	11A	230	104.5	5 min.	30 x 24 x 16
GHSLPFC11-3K60-120/208-120-10M-LIFE	3	3	120-240 VAC	11A	210	95.5	10 min.	30 x 24 x 16
GHSLPFC11-3K60-120/208-120-5M	3	2.4	120-240 VAC	9A	225	102.3	5 min.	30 x 24 x 16
GHSLPFC11-3K60-120/208-120-7M-LIFE	3	2.4	120-240 VAC	9A	200	90.9	7 min.	30 x 24 x 16
GHSLPFC11-2K60-120/208-120-5M	2	1.6	120-240 VAC	6A	195	88.6	5 min.	24 x 24 x 12
GHSLPFC11-2K60-120/208-120-10M-LIFE	2	1.6	120-240 VAC	6A	170	77.3	10 min.	24 x 24 x 12
GHSLPFC11-1.5K60-120/208-120-5M	1.5	1.2	120-240 VAC	5A	180	81.8	5 min.	24 x 24 x 12
GHSLPFC11-1.5K60-120/208-120-10M-LIFE	1.5	1.2	120-240 VAC	5A	160	72.7	10 min.	24 x 24 x 12
GHSLPFC11-1K60-120/208-120	0.9	0.7	120-240 VAC	2A	165	75.0	5 min.	24 x 24 x 12
GHSLPFC11-1K60-120/208-120-LIFE	0.9	0.7	120-240 VAC	2A	145	65.9	10 min.	24 x 24 x 12

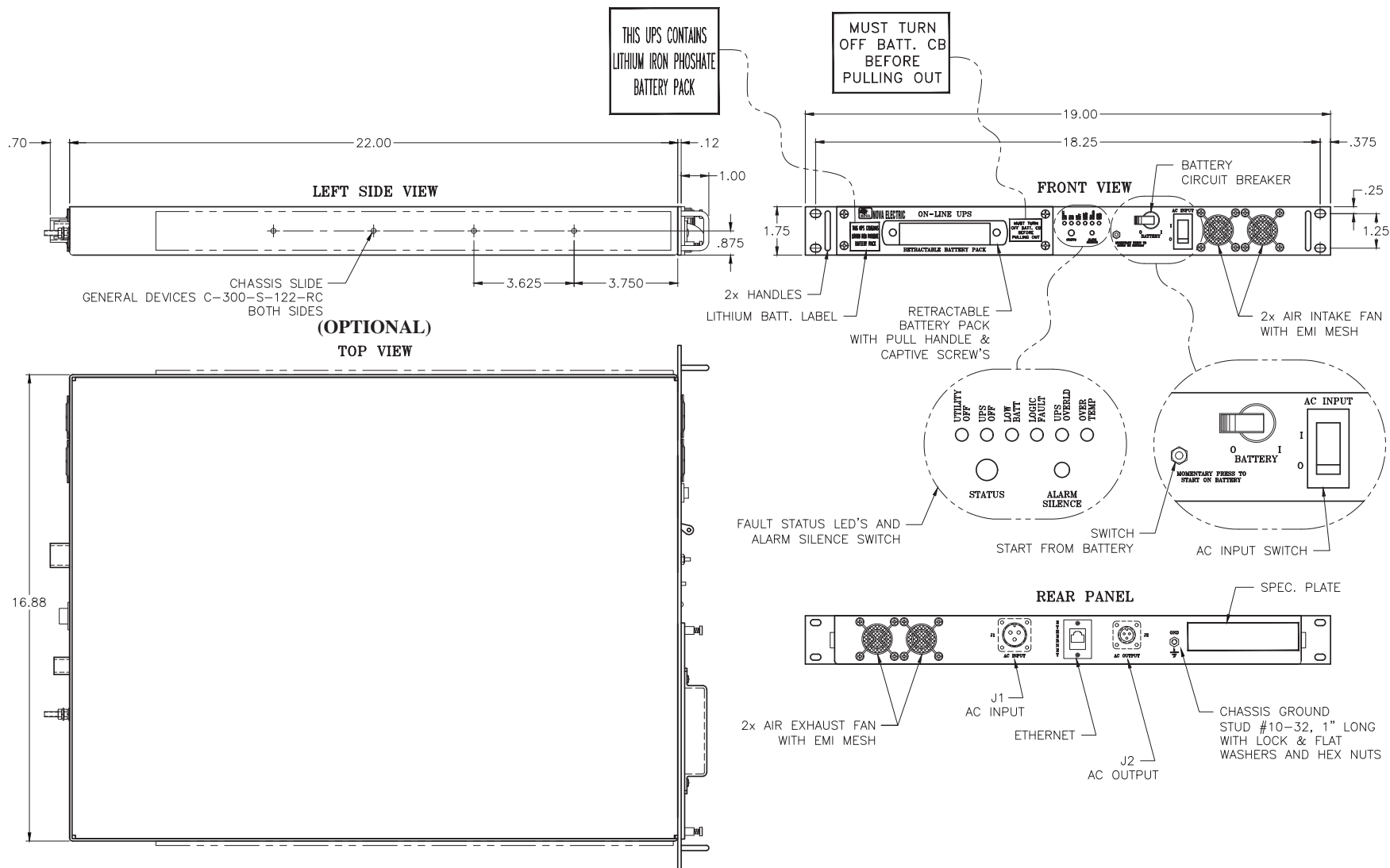
*Three-Phase Input Models do not have PFC and are not compliant with the harmonics requirements of MIL-STD-1399. Please see our Navy Galaxy Series for MIL-STD-1399 Compliant Three-Phase Input UPSs.



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





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. FRONT PANEL FINISH: YELLOW IRRIDITE THEN PRIME & PAINT SURFACE
 PAINT COLOR: ANSI #61 GRAY SEMI-GLOSS.
 OTHER SURFACES YELLOW IRRIDITE ONLY.
5. FRONT & REAR PANELS SILK-SCREENED IN BLACK EPOXY INK.

CONNECTOR PIN DESIGNATIONS

J1 AC INPUT		J2 AC OUTPUT	
MS3102R14S-1P		MS3102R10SL-3S	
MATE: MS3106E14S-1S		MATE: MS3106E10SL-3P	
PIN	DESCRIPTION	PIN	DESCRIPTION
A	L1	A	LINE
B	L2	B	NEUTRAL
C	GND	C	GND

TYPICAL 1U CHASSIS

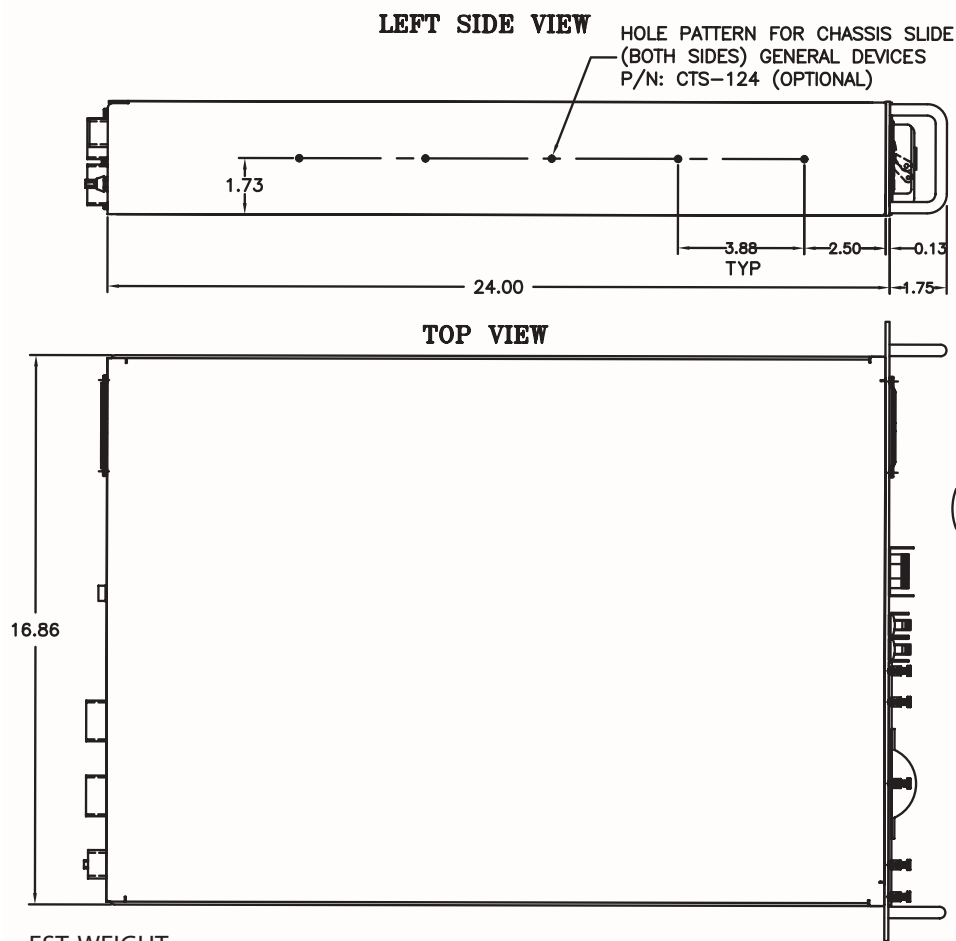


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NSF-ISR
 Registered
 to ISO 9001



EST. WEIGHT
60 LBS. VRLA BATTERIES
37 LBS. LIFE BATTERIES

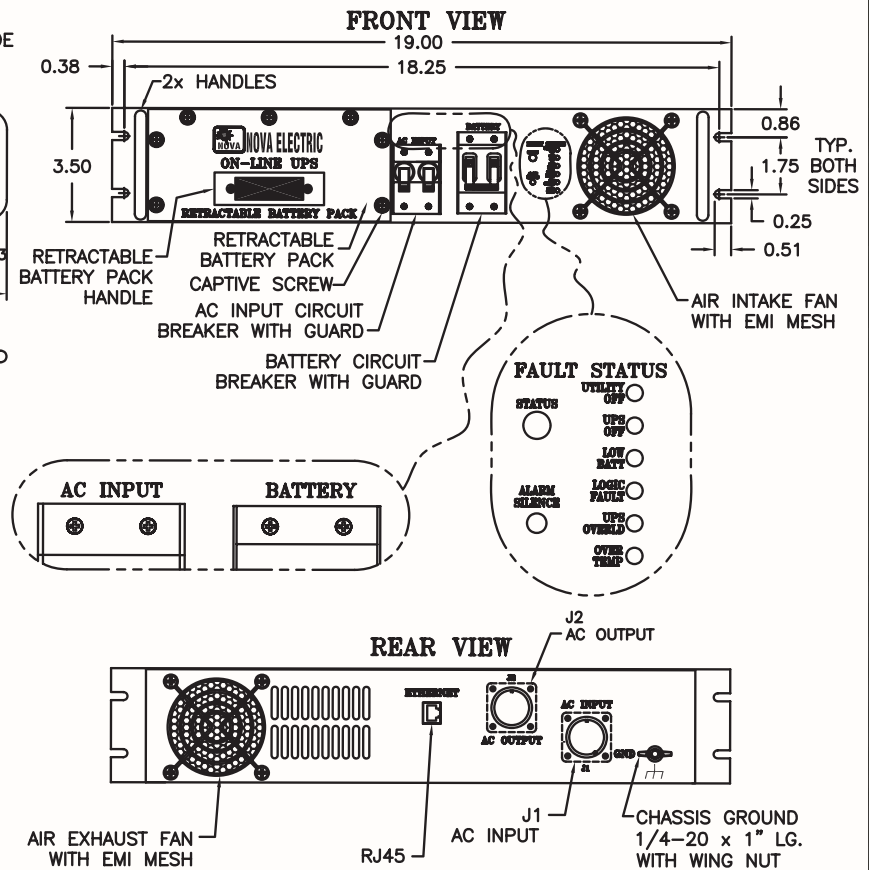
CONNECTORS PIN DESIGNATION

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



NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. EXTERIOR COLOR ANSI #61 GRAY SEMI-GLOSS. (FRONT PANEL ONLY). OTHER SURFACES YELLOW IRRIDITE.

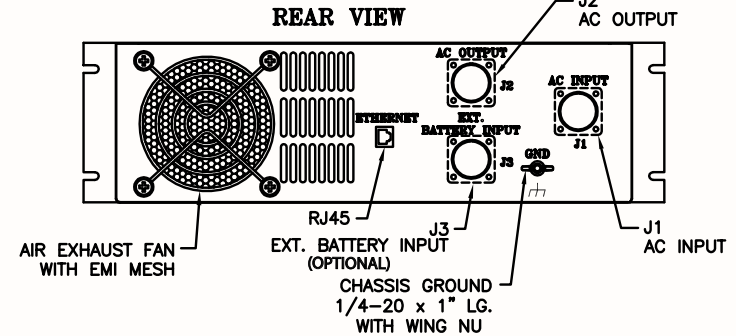
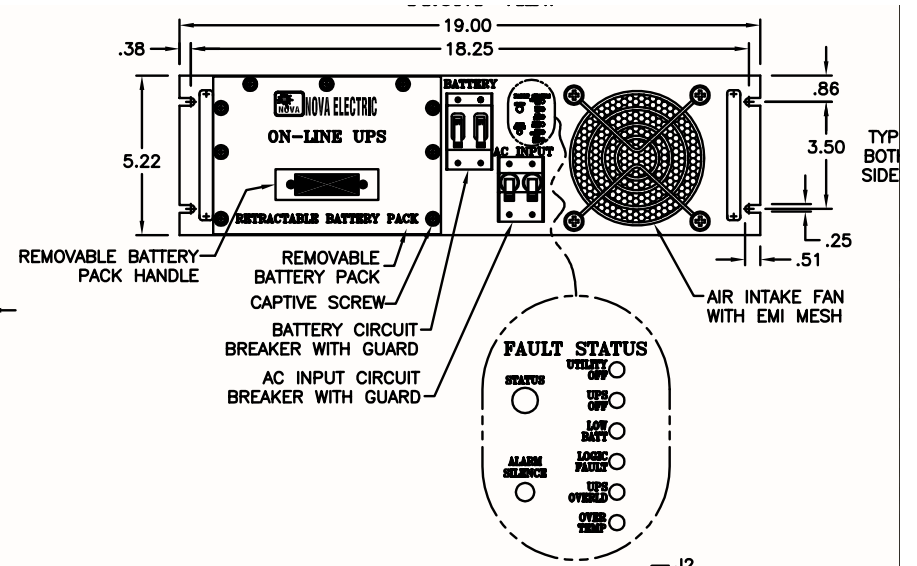
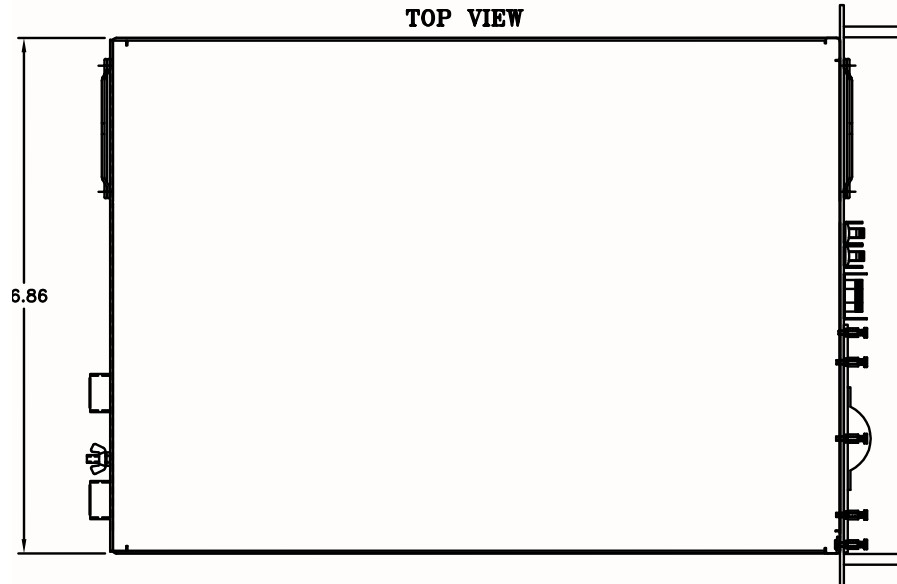
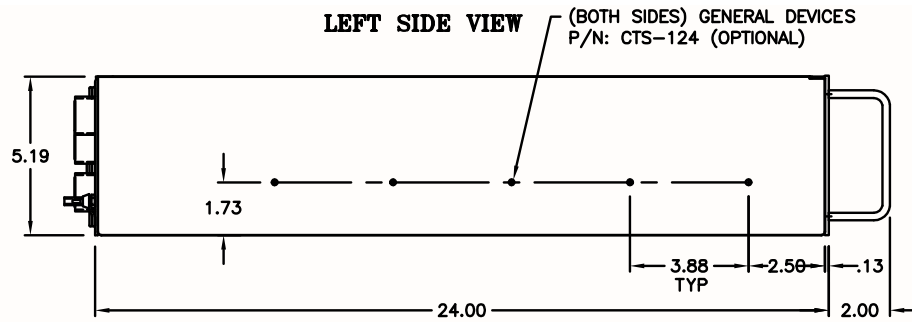
TYPICAL 2U CHASSIS



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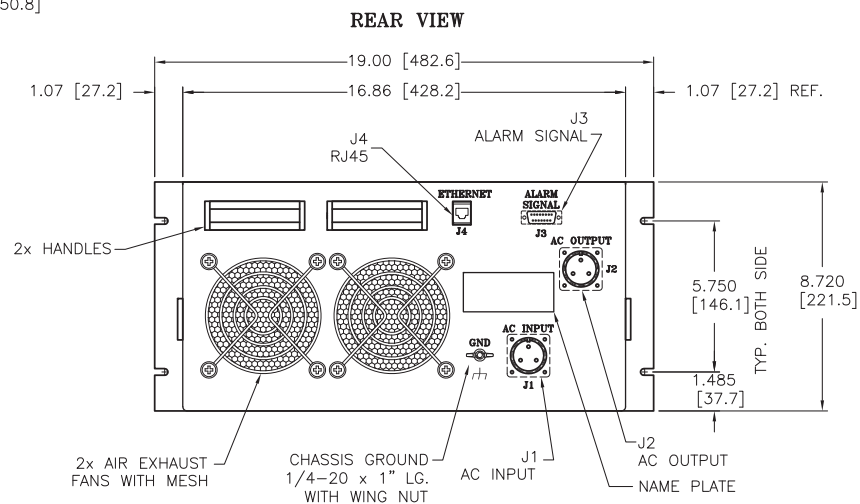
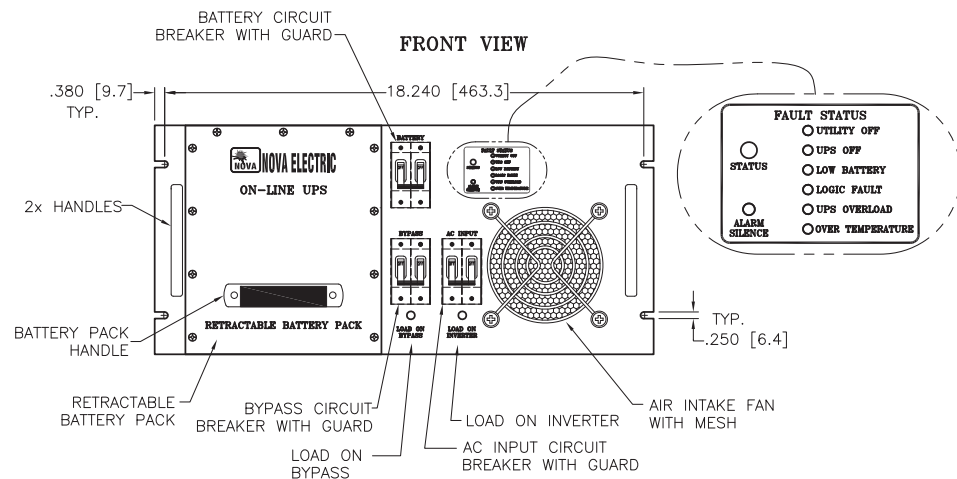
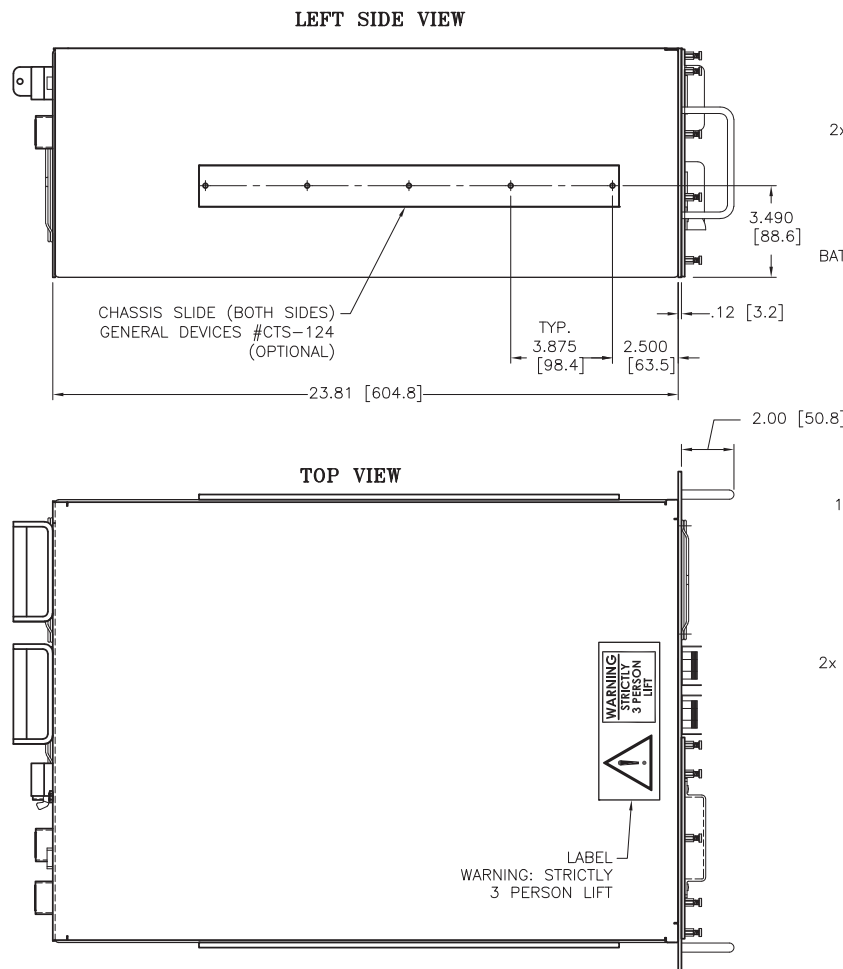


- NOTES:
1. ALL DIMENSIONS ARE IN INCHES.
 2. EXTERIOR COLOR ANSI #61 GRAY SEMI-GLOSS. (FRONT PANEL ONLY). OTHER SURFACES YELLOW IRRIDITE.

CONNECTORS PIN DESIGNATION

J1 AC INPUT		J2 AC OUTPUT		OPTIONAL J3 EXT. BATTERY INPUT	
MS3102R20-19P		MS3102R20-19S		MS3102R20-24P	
PIN	DESCRIPTION	PIN	DESCRIPTION	PIN	DESCRIPTION
A	LINE	A	LINE	A	GND
B	NEUTRAL	B	NEUTRAL	B	DC +
C	GND	C	GND	C	SPARE
				D	DC -

TYPICAL 3U CHASSIS



NOTES:

1. ALL DIMENSIONS ARE IN INCHES [MM].
2. ALL UNDIMENSIONED PICTORIAL CONFIGURATIONS ARE FOR REFERENCE ONLY.
3. FRONT AND REAR MARKING FOR REFERENCE ONLY.
4. FRONT PANEL FINISH: IRRIDITE, THEN PRIME & PAINT FRONT SURFACE AND ALL EDGES - ANSI #61 GRAY SEMI-GLOSS. ALL OTHER SURFACES ARE IRRIDITED (ALUMINUM).
5. FRONT AND REAR PANEL SILKSCREEN IN BLACK EPOXY INK.
6. CAD-FREE CONNECTORS OPTIONAL.
7. IP PROTECTION (OPTIONAL)
8. APPROXIMATE WEIGHT: 110 LBS. (75 LBS. WITH LITHIUM BATTERIES)

CONNECTORS PIN DESIGNATION

J1 AC INPUT		J2 AC OUTPUT	
MS3102R20-19P		MS3102R20-19S	
MATE: MS3106E20-19S		MATE: MS3106E20-19P	
PIN	DESCRIPTION	PIN	DESCRIPTION
A	LINE	A	LINE
B	NEUTRAL	B	NEUTRAL
C	GND	C	GND

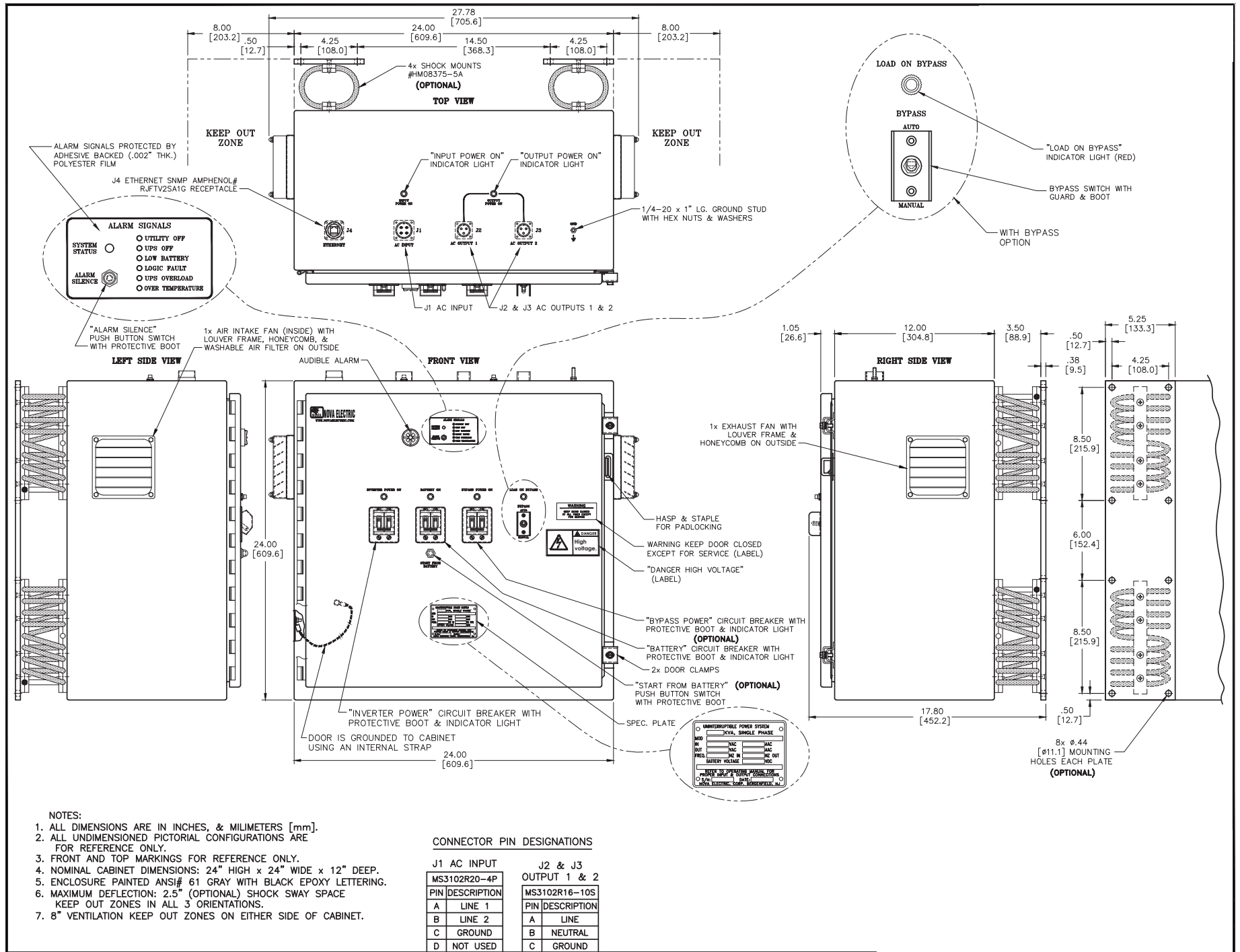
J3 ALARM SIGNAL

DAM-15S	
PIN	DESCRIPTION
1 & 2	SPARE
3 & 4	SPARE
5 & 6	BATT LOW
7 & 8	OVERLOAD
9 & 10	SPARE
11 & 12	SPARE
13,14,15	SPARE

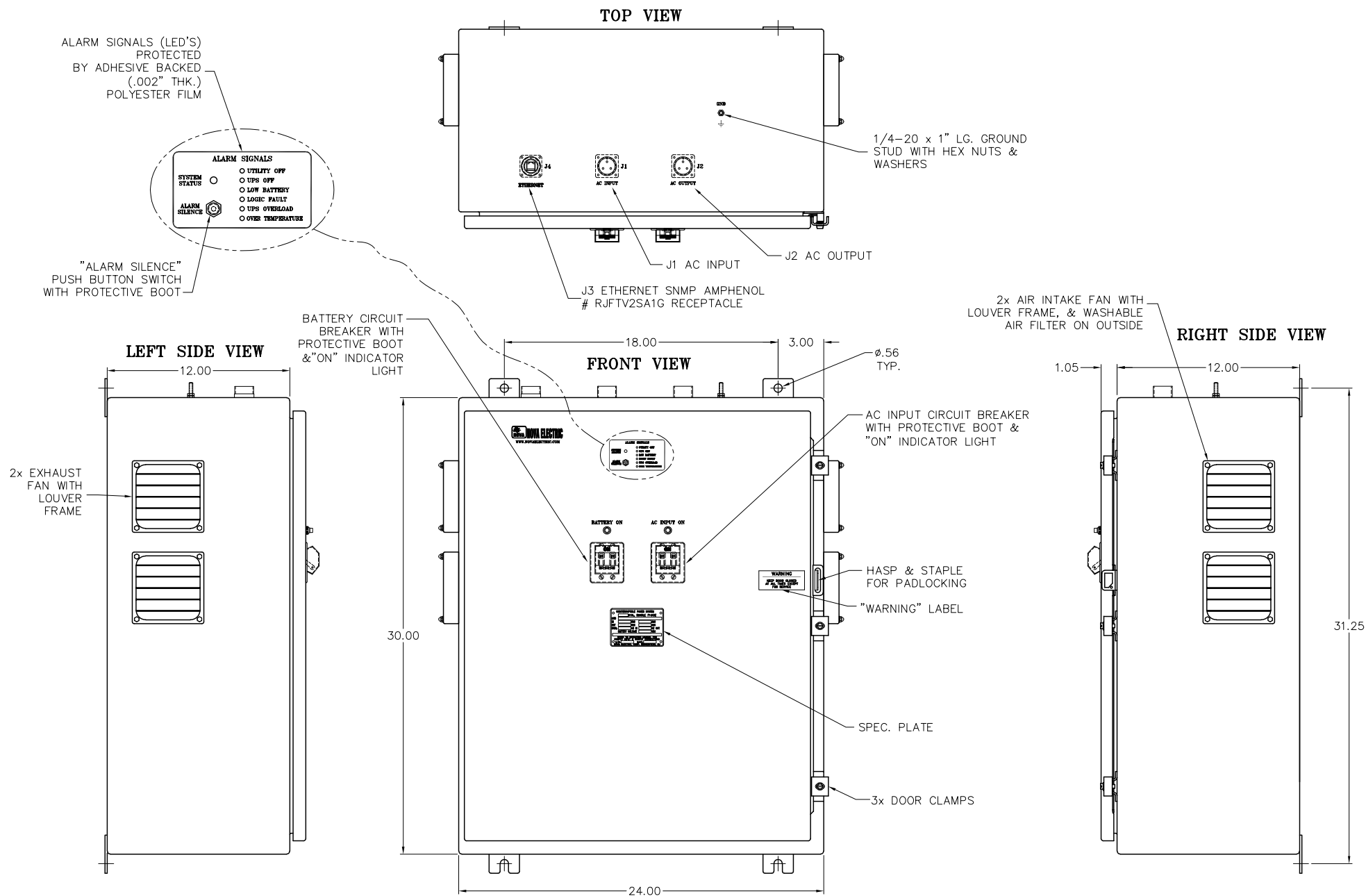
J4 ETHERNET

RJ45
RJ45 WIRED IN ACCORDANCE WITH THE 100Base-TX Signal Pin Out

TYPICAL 5U CHASSIS



TYPICAL 700 W - 2 KVA BULKHEAD MOUNT CHASSIS



TYPICAL 3-6 KVA BULKHEAD MOUNT CHASSIS



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



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