



NOVA ELECTRIC

POPULAR OPTIONS

- Ruggedization Against High Shock, Vibration and Humidity
- MS Connector Mates
- 19" Rack Mounting Kit
- Wall Mount Plate
- Electromechanical Transfer Switch
- Custom Enclosures
- Power Distribution Units (PDUs)
- Environmental Stress Screening Services

FEATURES

- Crystal Controlled Frequency
- Compact and Light Weight, Yet Rugged and Vehicle Rated
- 86-88% Efficient
- Tightly Regulated Output Voltage and Frequency
- Capable Of Driving Highly Reactive Loads Such As Motors
- Capable Of Driving Highly Capacitive Loads Such As Non PFC Switching Power Supplies
- Very Low Harmonic Distortion, THD<3%.
- Suitable For Vehicle Mounting
- Fan Cooled With Air Filter
- Can Be Wired To Form 3Ø Output

CONTACT

100 School Street,
Bergenfield, NJ 07621 USA

(201) 385-0500

novaelectric.com

info@novaelectric.com



NGL-Series Modular Rugged Pure Sinewave DC-AC Inverters



NGL Series 3.5 KW



NGL Series 2-3 KW



NGL Series 1 KW



NGL Series 100 W

GENERAL OVERVIEW

These rugged inverters are extremely reliable, designed to provide many years of service in high shock, vibration, humidity, and EMI environments. Combining 3 inverters to form a 3 phase power system is optional. In this configuration, a 3 phase and neutral line is generated with precise synchronization. Utilizing field proven technology, this family of Pure Sinewave DC-AC inverters can be customized for harsh environment applications.

Applications

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

Compliance (By Test or Similarity)

- MIL-STD-810
- MIL-STD-1275⁽¹⁾
- MIL-STD-461⁽²⁾
- MIL-STD-167
- MIL-STD-704
- MIL-S-901⁽³⁾

⁽¹⁾ May require additional external module.

⁽²⁾ May require external EMI Filter.

⁽³⁾ Requires external shock absorbers.

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Rev E-June-6-2022



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SPECIFICATIONS

Electrical

INPUT VOLTAGE	12, 24, 48, 120, 155 or 270 VDC Nominal
OUTPUT VOLTAGE 120V MODEL	100/110/120 VAC
OUTPUT VOLTAGE 230V MODEL	220/230/240 VAC
OUTPUT FREQUENCY	50 Hz, 60 Hz or 400 Hz
OVERLOAD	125% for 5 Minutes
EFFICIENCY AT FULL LOAD (120V)	86%
EFFICIENCY AT FULL LOAD (230V)	88%
OUTPUT WAVEFORM SINEWAVE	<3% THD
OUTPUT REGULATION	± 2.5%
MTBF	Over 100,000 Hours per Field Data
MTTR	30 Minutes

Environmental

OPERATING TEMP.	-20°C to +50°C Std -40°C to +60°C Optional
VIBRATION	per MIL-STD-810 Surface Vehicle or MIL-STD-167 Shipboard
SHOCK	20 g, 11 mS per MIL-STD-810
HUMIDITY	per MIL-STD-810 to 95% Non-condensing
EMI	MIL-STD-461 (May Require Additional External EMI Filter)

Protective Features

OVERLOAD
OVERVOLTAGE
OVERTEMPERATURE



NGL Series 3.5 KW



NGL Series 2-3 KW



NGL Series 1 KW

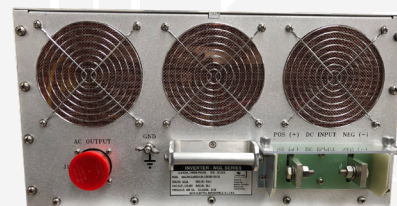


NGL Series 100 W

5U THREE-PHASE NGLRK SERIES



5U NGLRK Series Typical Front Panel



5U NGLRK Series Typical Rear Panel

3U THREE-PHASE NGLRK SERIES



3U NGLRK Series Typical Front Panel



3U NGLRK Series Typical Rear Panel

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NGL SERIES 24 VDC NOMINAL (22-32 VDC) INPUT PURE SINE WAVE DC-AC INVERTERS

60 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1060-24	120	60	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K60-24	120	60	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K60-24	120	60	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K60-24	120	60	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K60-24	120	60	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

50 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1050-24(220)	220	50	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K50-24(220)	220	50	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K50-24(220)	220	50	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K50-24(220)	220	50	3 KVA / 2.4 KW	15	5.00 x 8.00 x 12.50
NGL3.5K50-24(220)	220	50	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

400 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL10400-24	115	400	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K400-24	115	400	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K400-24	115	400	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K400-24	115	400	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K400-24	115	400	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

Partial Three Phase Model Selection - Lower and Higher Capacities Available - Consult Factory

3 PHASE MODELS	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	APPROX. WEIGHT (LB)	SIZE IN. (HxWxL)
NGLRK3K3/6-24(120/208)	120/208	60	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/5-24(220/380)	220/380	50	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/4-24(115/200)	115/200	400	3KVA	35	5.25" x 19" x 22"
NGLRK4.5K3/6-24(120/208)	120/208	60	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/5-24(220/380)	220/380	50	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/4-24(115/200)	115/200	400	4.5KVA	60	5.25" x 19" x 22"
NGLRK6K3/6-24(120/208)	120/208	60	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/5-24(220/380)	220/380	50	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/4-24(115/200)	115/200	400	6KVA	65	5.25" x 19" x 22"
NGLRK9K3/6-24(120/208)	120/208	60	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/5-24(220/380)	220/380	50	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/4-24(115/200)	115/200	400	9KVA	70	8.75" x 19" x 24"
NGLRK10.5K3/6-24(120/208)	120/208	60	10.5KVA	74	8.75" x 19" x 24"
NGLRK10.5K3/5-24(220/380)	220/380	50	10.5KVA	74	8.75" x 19" x 24"
NGLRK10.5K3/4-24(115/200)	115/200	400	10.5KVA	74	8.75" x 19" x 24"

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NGL SERIES 36 VDC NOMINAL (30-42 VDC) INPUT PURE SINE WAVE DC-AC INVERTERS

60 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1060-36	120	60	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K60-36	120	60	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K60-36	120	60	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K60-36	120	60	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K60-36	120	60	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

50 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1050-36(220)	220	50	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K50-36(220)	220	50	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K50-36(220)	220	50	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K50-36(220)	220	50	3 KVA / 2.4 KW	15	5.00 x 8.00 x 12.50
NGL3.5K50-36(220)	220	50	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

400 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL10400-36	115	400	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K400-36	115	400	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K400-36	115	400	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K400-36	115	400	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K400-36	115	400	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

Partial Three Phase Model Selection - Lower and Higher Capacities Available - Consult Factory

3 PHASE MODELS	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	APPROX. WEIGHT (LB)	SIZE IN. (HxWxL)
NGLRK3K3/6-36(120/208)	120/208	60	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/5-36(220/380)	220/380	50	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/4-36(115/200)	115/200	400	3KVA	35	5.25" x 19" x 22"
NGLRK4.5K3/6-36(120/208)	120/208	60	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/5-36(220/380)	220/380	50	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/4-36(115/200)	115/200	400	4.5KVA	60	5.25" x 19" x 22"
NGLRK6K3/6-36(120/208)	120/208	60	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/5-36(220/380)	220/380	50	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/4-36(115/200)	115/200	400	6KVA	65	5.25" x 19" x 22"
NGLRK9K3/6-36(120/208)	120/208	60	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/6-36(220/380)	220/380	50	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/4-36(115/200)	115/200	400	9KVA	70	8.75" x 19" x 24"
NGLRK10.5K3/6-36(120/208)	120/208	60	10.5KVA	74	8.75" x 19" x 24"
NGLRK10.5K3/5-36(115/200)	115/200	50	10.5KVA	74	8.75" x 19" x 24"
NGLRK10.5K3/4-36(220/380)	220/380	400	10.5KVA	74	8.75" x 19" x 24"

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- Fan Cooled With Air Filter
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NGL SERIES 48 VDC NOMINAL (42-56 VDC) INPUT PURE SINE WAVE DC-AC INVERTERS

60 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1060-48	120	60	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K60-48	120	60	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K60-48	120	60	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K60-48	120	60	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K60-48	120	60	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

50 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1050-48(220)	220	50	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K50-48(220)	220	50	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K50-48(220)	220	50	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K50-48(220)	220	50	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K50-48(220)	220	50	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

400 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL10400-48	115	400	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K400-48	115	400	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K400-48	115	400	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K400-48	115	400	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K400-48	115	400	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

Partial Three Phase Model Selection - Lower and Higher Capacities Available - Consult Factory

3 PHASE MODELS	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	APPROX. WEIGHT (LB)	SIZE IN. (HxWxL)
NGLRK3K3/6-48(120/208)	120/208	60	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/5-48(220/380)	220/380	50	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/4-48(115/200)	115/200	400	3KVA	35	5.25" x 19" x 22"
NGLRK4.5K3/6-48(120/208)	120/208	60	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/5-48(220/380)	220/380	50	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/4-48(115/200)	115/200	400	4.5KVA	60	5.25" x 19" x 22"
NGLRK6K3/6-48(120/208)	120/208	60	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/5-48(220/380)	220/380	50	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/4-48(115/200)	115/200	400	6KVA	65	5.25" x 19" x 22"
NGLRK9K3/6-48(120/208)	120/208	60	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/5-48(220/380)	220/380	50	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/4-48(115/200)	115/200	400	9KVA	70	8.75" x 19" x 24"
NGLRK10.5K3/6-48(120/208)	120/208	60	10.5KVA	74	8.75" x 19" x 24"
NGLRK10.5K3/5-48(220/380)	115/200	50	10.5KVA	74	8.75" x 19" x 24"
NGLRK10.5K3/4-48(115/200)	220/380	400	10.5KVA	74	8.75" x 19" x 24"

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NGL SERIES 72 VDC NOMINAL (62-84 VDC) INPUT PURE SINE WAVE DC-AC INVERTERS

60 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1060-72	120	60	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K60-72	120	60	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K60-72	120	60	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K60-72	120	60	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K60-72	120	60	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

50 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1050-72(220)	220	50	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K50-72(220)	220	50	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K50-72(220)	220	50	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K50-72(220)	220	50	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K50-72(220)	220	50	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

400 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL10400-72	115	400	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K400-72	115	400	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K400-72	115	400	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K400-72	115	400	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K400-72	115	400	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

Partial Three Phase Model Selection - Lower and Higher Capacities Available - Consult Factory

3 PHASE MODELS	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	APPROX. WEIGHT (LB)	SIZE IN. (HxWxL)
NGLRK3K3/6-72(120/208)	120/208	60	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/5-72(220/380)	220/380	50	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/4-72(115/200)	115/200	400	3KVA	35	5.25" x 19" x 22"
NGLRK4.5K3/6-72(120/208)	120/208	60	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/5-72(220/380)	220/380	50	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/4-72(115/200)	115/200	400	4.5KVA	60	5.25" x 19" x 22"
NGLRK6K3/6-72(120/208)	120/208	60	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/5-72(220/380)	220/380	50	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/4-72(115/200)	115/200	400	6KVA	65	5.25" x 19" x 22"
NGLRK9K3/6-72(120/208)	120/208	60	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/5-72(220/380)	220/380	50	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/4-72(115/200)	115/200	400	9KVA	70	8.75" x 19" x 24"
NGLRK10.5K3/6-72(120/208)	120/208	60	10.5KVA	74	8.75" x 19" x 24"
NGLRK10.5K3/5-72(220/380)	220/380	50	10.5KVA	74	8.75" x 19" x 24"
NGLRK10.5K3/4-72(115/200)	115/200	400	10.5KVA	74	8.75" x 19" x 24"

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Specifications subject to change without notice.



NOVA ELECTRIC

POPULAR OPTIONS

- Ruggedization Against High Shock, Vibration and Humidity
- MS Connector Mates
- 19" Rack Mounting Kit
- Wall Mount Plate
- Electromechanical Transfer Switch
- Custom Enclosures
- Power Distribution Units (PDUs)
- Environmental Stress Screening Services

FEATURES

- Crystal Controlled Frequency
- Compact and Light Weight, Yet Rugged and Vehicle Rated
- 86-88% Efficient
- Tightly Regulated Output Voltage and Frequency
- Capable Of Driving Highly Reactive Loads Such As Motors
- Capable Of Driving Highly Capacitive Loads Such As Non PFC Switching Power Supplies
- Very Low Harmonic Distortion, THD<3%.
- Suitable For Vehicle Mounting
- Fan Cooled With Air Filter
- Can Be Wired To Form 3Ø Output

CONTACT

100 School Street,
Bergenfield, NJ 07621 USA

(201) 385-0500

novaelectric.com

info@novaelectric.com



NGL SERIES 120 VDC NOMINAL (105-150 VDC) INPUT PURE SINE WAVE DC-AC INVERTERS

60 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1060-120	120	60	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K60-120	120	60	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K60-120	120	60	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K60-120	120	60	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K60-120	120	60	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

50 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1050-120(220)	220	50	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K50-120(220)	220	50	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K50-120(220)	220	50	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K50-120(220)	220	50	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K50-120(220)	220	50	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

400 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL10400-120	115	400	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K400-120	115	400	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K400-120	115	400	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K400-120	115	400	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K400-120	115	400	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

Partial Three Phase Model Selection - Lower and Higher Capacities Available - Consult Factory

3 PHASE MODELS	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	APPROX. WEIGHT (LB)	SIZE IN. (HxWxL)
NGLRK3K3/6-120(120/208)	120/208	60	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/5-120(220/380)	220/380	50	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/4-120(115/200)	115/200	400	3KVA	35	5.25" x 19" x 22"
NGLRK4.5K3/6-120(120/208)	120/208	60	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/5-120(220/380)	220/380	50	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/4-120(115/200)	115/200	400	4.5KVA	60	5.25" x 19" x 22"
NGLRK6K3/6-120(120/208)	120/208	60	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/5-120(220/380)	220/380	50	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/4-120(115/200)	115/200	400	6KVA	65	5.25" x 19" x 22"
NGLRK9K3/6-120(120/208)	120/208	60	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/5-120(220/380)	220/380	50	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/4-120(115/200)	115/200	400	9KVA	70	8.75" x 19" x 24"
NGLRK10.5K3/6-120(120/208)	120/208	60	10.5KVA	74	8.75" x 19" x 24"
NGLRK10.5K3/5-120(220/380)	220/380	50	10.5KVA	74	8.75" x 19" x 24"
NGLRK10.5K3/4-120(115/200)	115/200	400	10.5KVA	74	8.75" x 19" x 24"

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- 86-88% Efficient
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- Capable Of Driving Highly Reactive Loads Such As Motors
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- Very Low Harmonic Distortion, THD<3%.
- Suitable For Vehicle Mounting
- Fan Cooled With Air Filter
- Can Be Wired To Form 3Ø Output

CONTACT

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NGL SERIES 155 VDC NOMINAL (120-205 VDC) INPUT PURE SINE WAVE DC-AC INVERTERS

60 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1060-155	120	60	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K60-155	120	60	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K60-155	120	60	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K60-155	120	60	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K60-155	120	60	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

50 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1050-155(220)	220	50	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K50-155(220)	220	50	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K50-155(220)	220	50	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K50-155(220)	220	50	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K50-155(220)	220	50	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

400 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL10400-155	115	400	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K400-155	115	400	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K400-155	115	400	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K400-155	115	400	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K400-155	115	400	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

Partial Three Phase Model Selection - Lower and Higher Capacities Available - Consult Factory

3 PHASE MODELS	OUTPUT VAC	OUTPUT FREQ. (HZ)	CONT. OUTPUT POWER	APPROX. WEIGHT (LB)	SIZE IN. (HxWxL)
NGLRK3K3/6-155(120/208)	120/208	60	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/5-155(220/380)	220/380	50	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/4-155(115/200)	115/200	400	3KVA	35	5.25" x 19" x 22"
NGLRK4.5K3/6-155(120/208)	120/208	60	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/5-155(220/380)	220/380	50	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/4-155(115/200)	115/200	400	4.5KVA	60	5.25" x 19" x 22"
NGLRK6K3/6-155(120/208)	120/208	60	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/5-155(220/380)	220/380	50	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/5-155(220/380)	115/200	400	6KVA	65	5.25" x 19" x 22"
NGLRK9K3/6-155(120/208)	120/208	60	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/5-155(220/380)	220/380	50	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/4-155(115/200)	115/200	400	9KVA	70	8.75" x 19" x 24"
NGL10.5K3/6-155 (120/208)	120/208	60	10.5KVA	74	8.75" x 19" x 24"
NGL10.5K3/5-155 (220/380)	220/380	50	10.5KVA	74	8.75" x 19" x 24"
NGL10.5K3/4-155 (115/200)	115/200	400	10.5KVA	74	8.75" x 19" x 24"

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- Suitable For Vehicle Mounting
- Fan Cooled With Air Filter
- Can Be Wired To Form 3Ø Output

CONTACT

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(201) 385-0500

novaelectric.com
info@novaelectric.com



NGL SERIES 270 VDC NOMINAL (240-300 VDC) INPUT PURE SINE WAVE DC-AC INVERTERS

60 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1060-270	120	60	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K60-270	120	60	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K60-270	120	60	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K60-270	120	60	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K60-270	120	60	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

50 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL1050-270(220)	220	50	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K50-270(220)	220	50	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K50-270(220)	220	50	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K50-270(220)	220	50	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K50-270(220)	220	50	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

400 Hz Models

MODEL	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	WEIGHT (Lb.)	SIZE IN. (H x W x L)
NGL10400-270	115	400	120 VA / 100 W	2.4	2.68 x 4.50 x 7.75
NGL1K400-270	115	400	1.2 KVA / 1 KW	6.4	2.60 x 5.00 x 10.00
NGL2K400-270	115	400	2.5 KVA / 2 KW	14	5.00 x 8.00 x 12.50
NGL3K400-270	115	400	3.5 KVA / 3 KW	15	5.00 x 8.00 x 12.50
NGL3.5K400-270	115	400	4.5 KVA / 3.5 KW	16.3	5.00 x 8.00 x 14.77

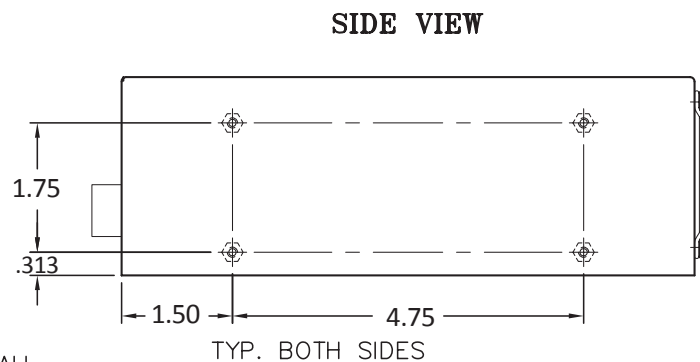
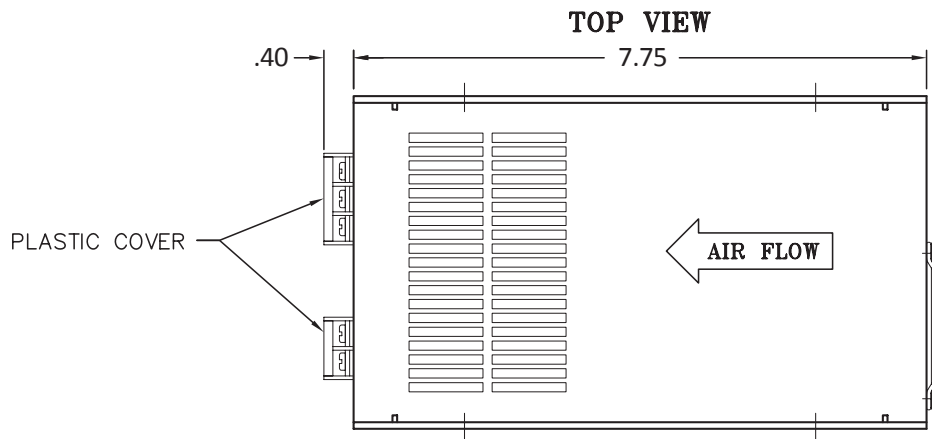
Partial Three Phase Model Selection - Lower and Higher Capacities Available - Consult Factory

3 PHASE MODELS	OUTPUT VAC	OUTPUT FREQ. (Hz)	CONT. OUTPUT POWER	APPROX. WEIGHT (LB)	SIZE IN. (HxWxL)
NGLRK3K3/6-270(120/208)	120/208	60	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/5-270(220/380)	220/380	50	3KVA	35	5.25" x 19" x 22"
NGLRK3K3/4-270(115/200)	115/200	400	3KVA	35	5.25" x 19" x 22"
NGLRK4.5K3/6-270(120/208)	120/208	60	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/5-270(220/380)	220/380	50	4.5KVA	60	5.25" x 19" x 22"
NGLRK4.5K3/4-270(115/200)	115/200	400	4.5KVA	60	5.25" x 19" x 22"
NGLRK6K3/6-270(120/208)	120/208	60	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/5-270(220/380)	220/380	50	6KVA	65	5.25" x 19" x 22"
NGLRK6K3/4-270(115/200)	115/200	400	6KVA	65	5.25" x 19" x 22"
NGLRK9K3/6-270(120/208)	120/208	60	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/5-270(220/380)	220/380	50	9KVA	70	8.75" x 19" x 24"
NGLRK9K3/4-270(115/200)	115/200	400	9KVA	70	8.75" x 19" x 24"
NGLRK10.5K3/6-270(120/208)	120/208	60	10.5KVA	74	8.75" x 19" x 24"
NGLRK10.5K3/5-270(220/380)	220/380	50	10.5KVA	74	8.75" x 19" x 24"
NGLRK10.5K3/4-270(115/200)	115/200	400	10.5KVA	74	8.75" x 19" x 24"

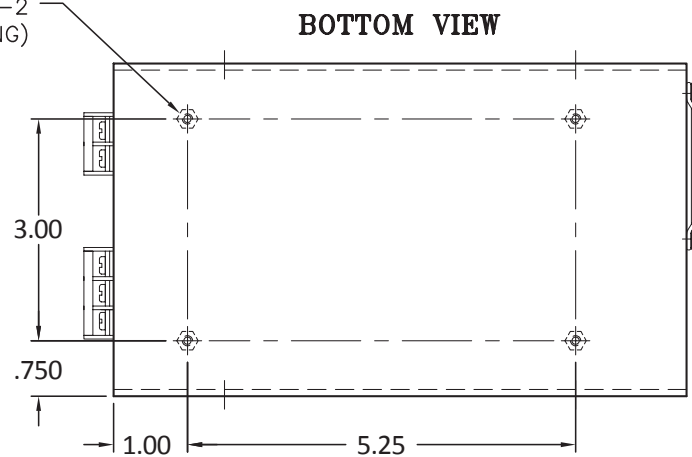
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Specifications subject to change without notice.

NGL SERIES 100 W OUTLINE DRAWING (TYPICAL)

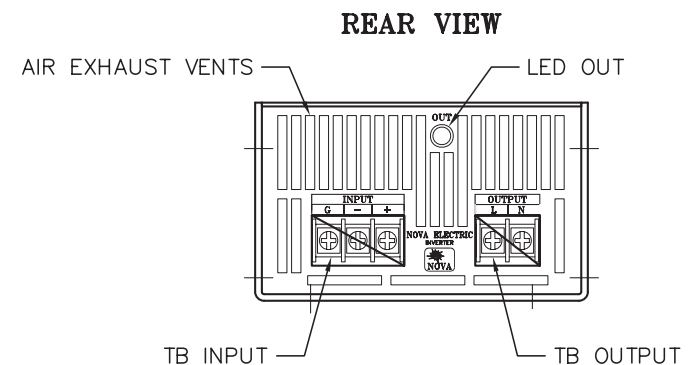
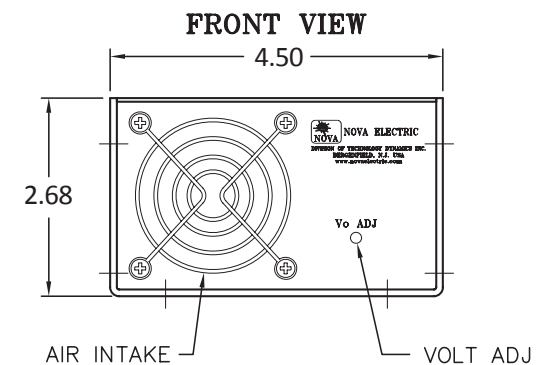


12x DRILL & INSTALL
 PEM NUT F-632-2
 FAR SIDE (MOUNTING)



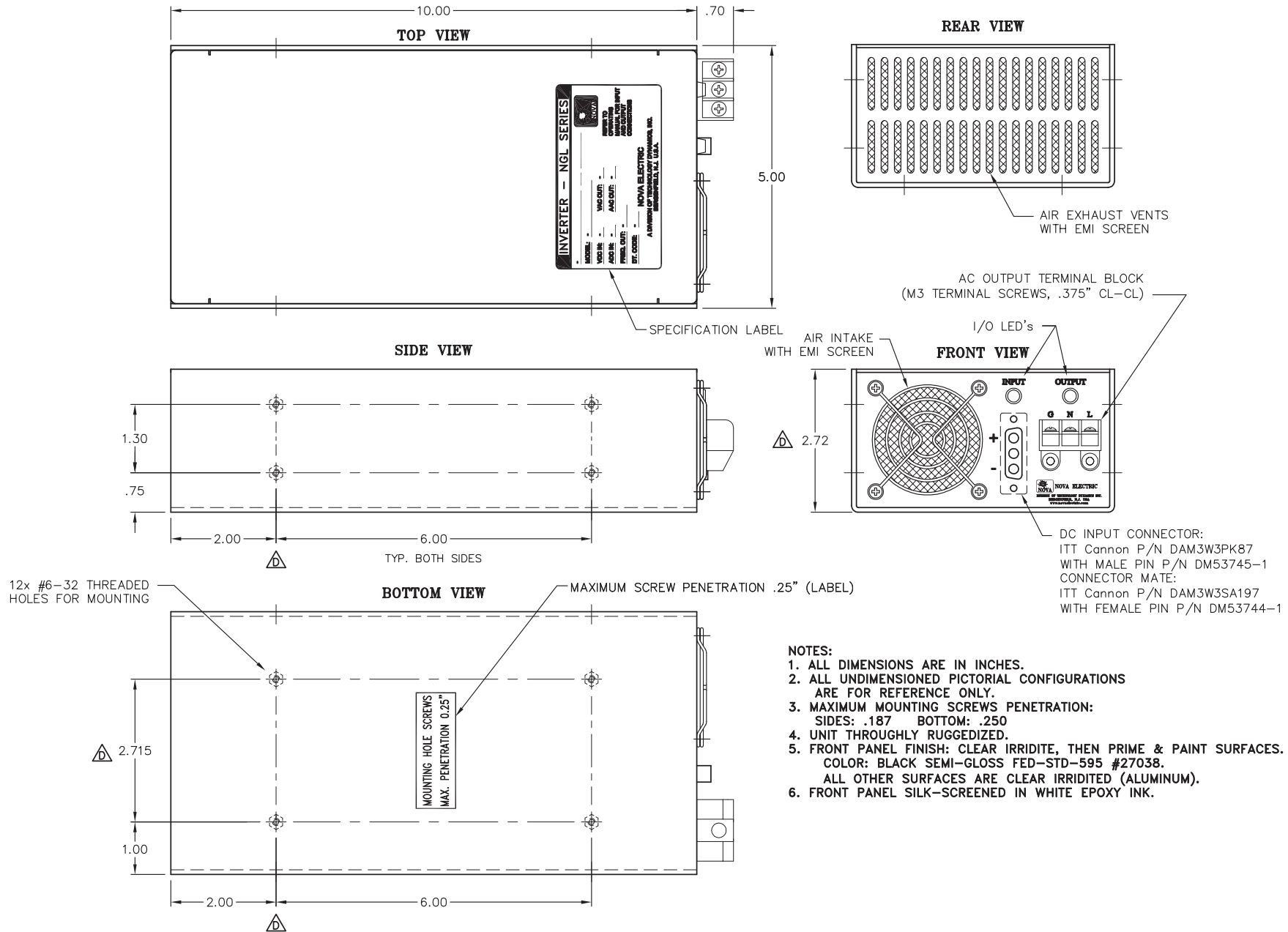
NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. ALL UNDIMENSIONED PICTORIAL CONFIGURATIONS ARE FOR REFERENCE ONLY.
3. MAX. MOUNTING SCREWS PENETRATION:
 SIDES: .187
 BOTTOM: .250

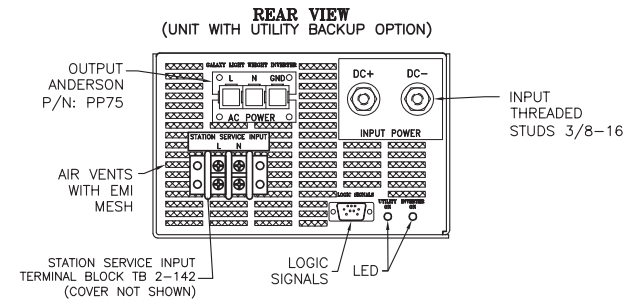
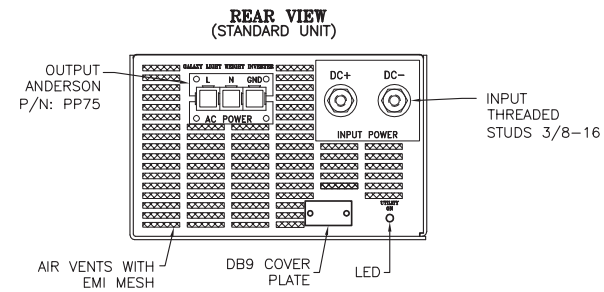
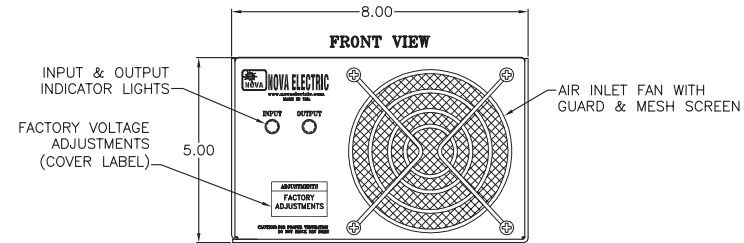
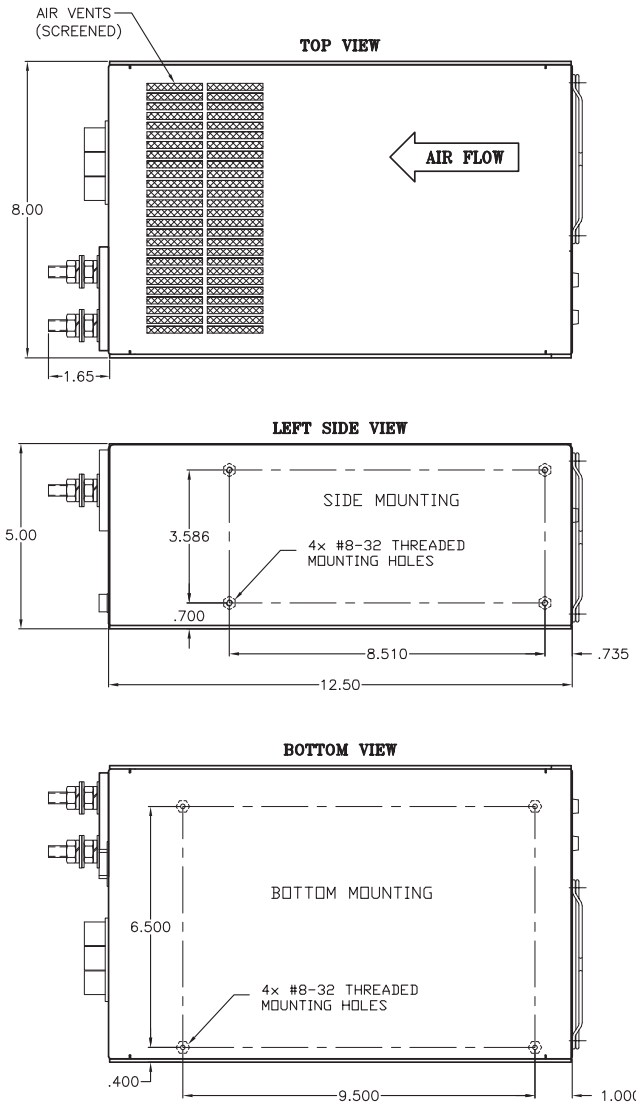


120 VA

NGL SERIES 1 KW OUTLINE DRAWING TYPICAL



NGL SERIES 2-3 KW OUTLINE DRAWING TYPICAL



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 AND ALL EDGES. OTHER SURFACES YELLOW IRRIDITE ONLY.
5. SILKSCREEN IN WHITE EPOXY INK.

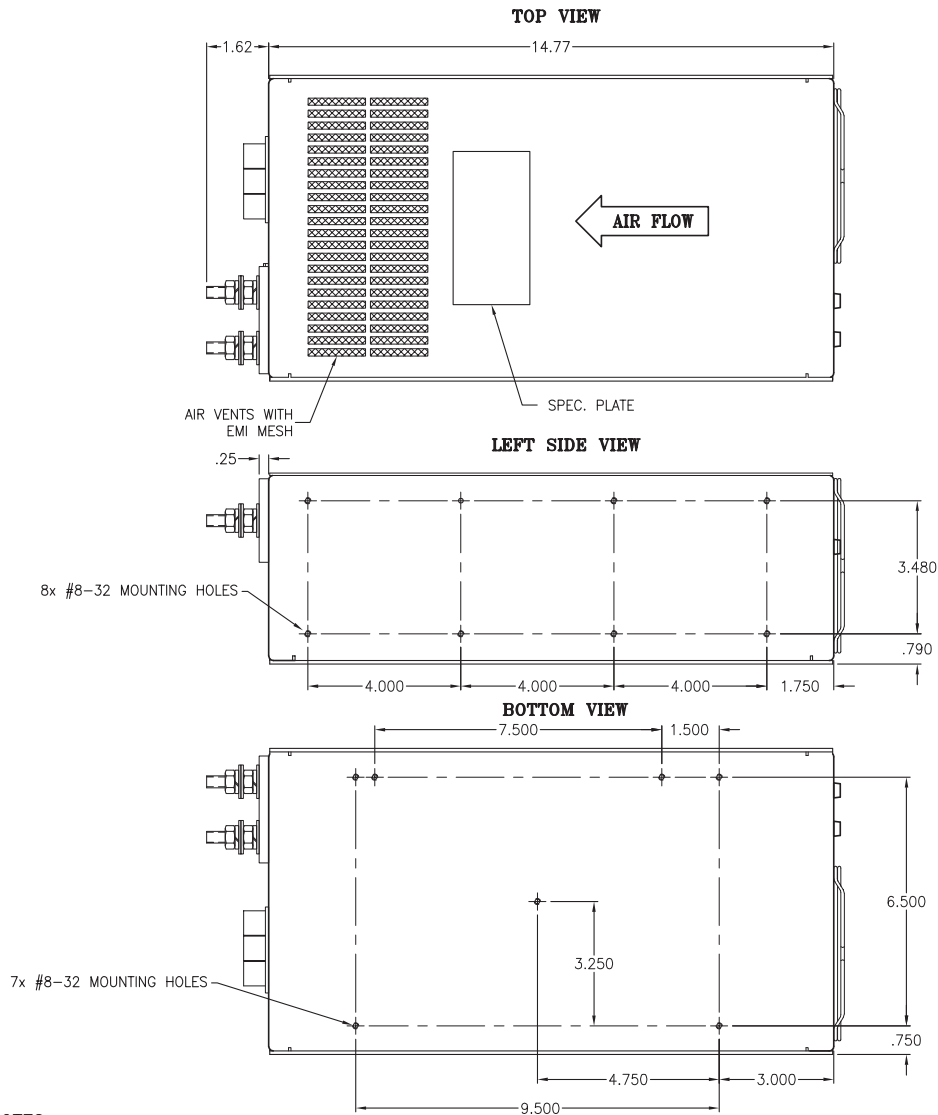


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Some optional equipment shown. Specifications subject to change without notice.

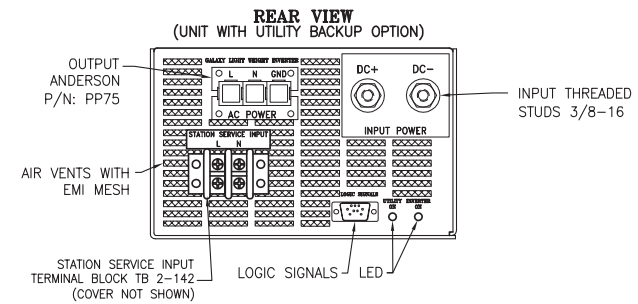
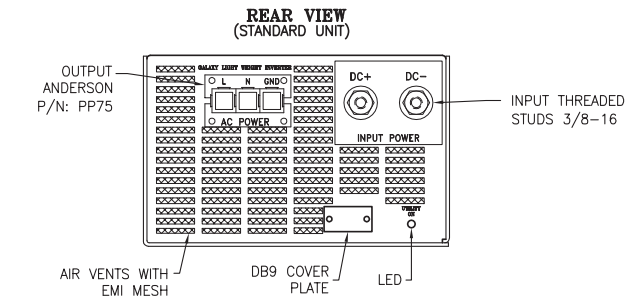
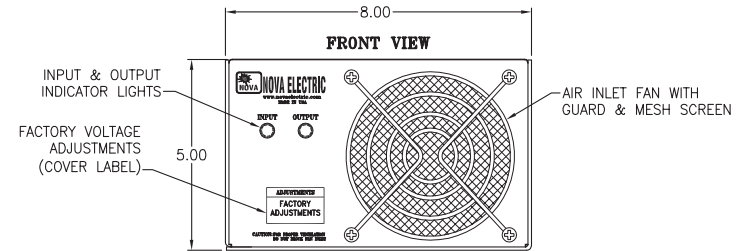


NGL SERIES 3.5 KW OUTLINE DRAWING TYPICAL

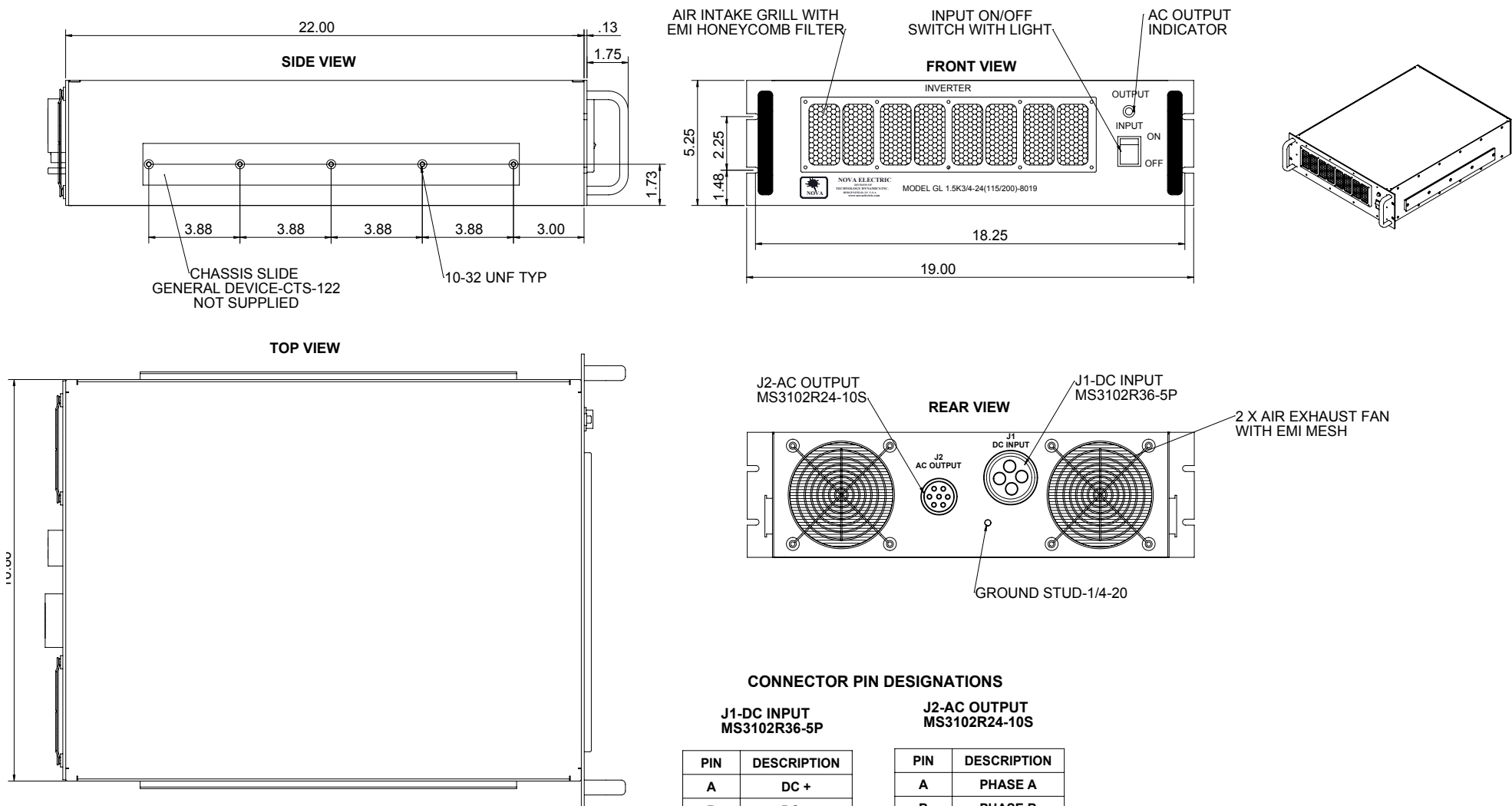


NOTES:

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 AND REAR PANEL FINISH: YELLOW IRRIDITE, THEN PRIME & PAINT
FRONT SURFACE AND ALL EDGES - BLACK SEMI-GLOSS #27308 AS PER
FED-STD-595B MEDIUM TEXTURE. ALL OTHER SURFACES ARE IRRIDITED (ALUMINUM).
5. FRONT AND REAR PANEL SILK-SCREEN IN WHITE EPOXY INK.



TYPICAL 3U NGLRK SERIES PURE SINE WAVE LIGHTWEIGHT THREE-PHASE OUTPUT DC-AC INVERTERS OUTLINE DRAWING



NOTES:

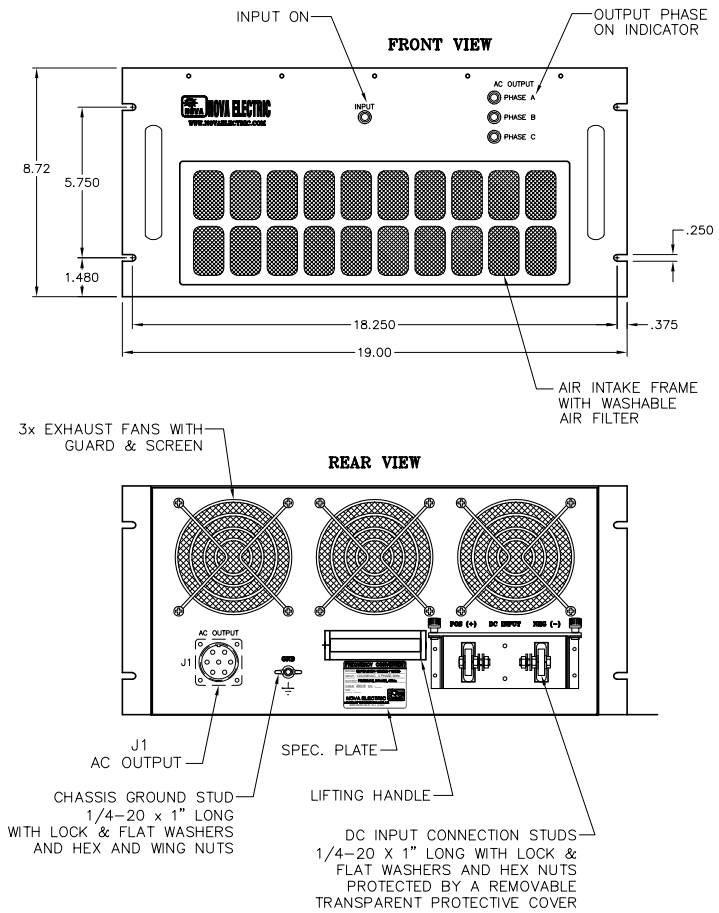
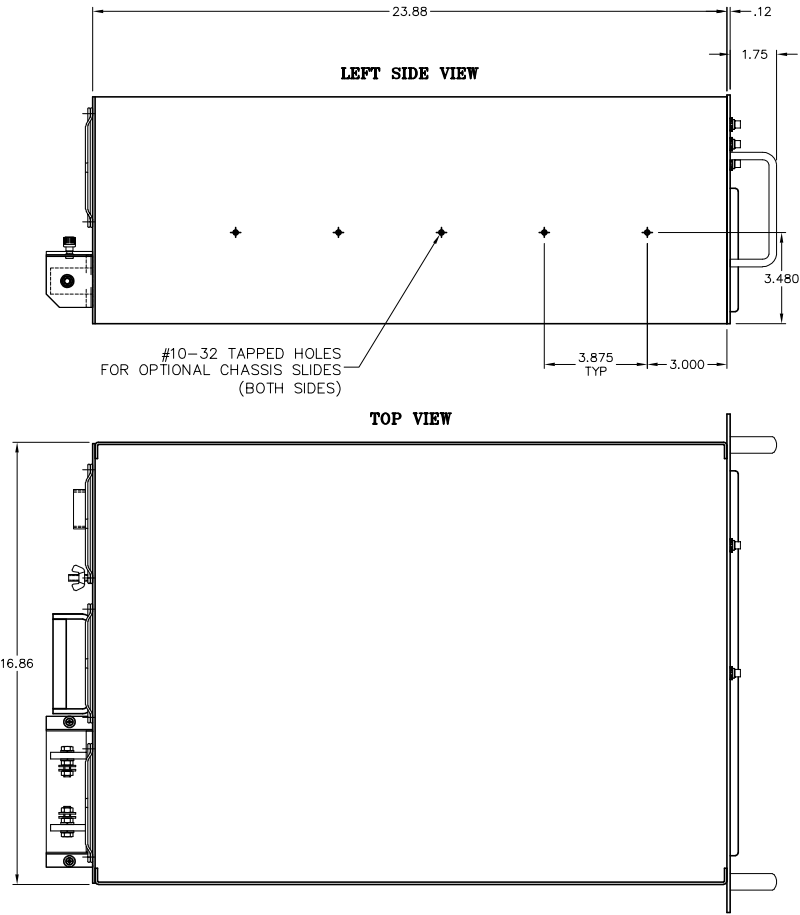
1. ALL DIMENSIONS ARE IN INCHES
2. FRONT PANEL COLOR ANSI #61 GRAY SEMI-GLOSS
ALL OTHER SURFACES ARE IRRIDITED

CONNECTOR PIN DESIGNATIONS

J1-DC INPUT MS3102R36-5P		J2-AC OUTPUT MS3102R24-10S	
PIN	DESCRIPTION	PIN	DESCRIPTION
A	DC +	A	PHASE A
B	DC +	B	PHASE B
C	DC -	C	PHASE C
D	DC -	D	NEUTRAL
		E	GROUND



TYPICAL 5U NGLRK SERIES PURE SINE WAVE LIGHTWEIGHT THREE-PHASE OUTPUT DC-AC INVERTERS OUTLINE DRAWING



- NOTES:
1. ALL DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE SPECIFIED.
 2. ALL UN-DIMENSIONED PICTORIAL CONFIGURATIONS ARE FOR REFERENCE ONLY.
 3. FRONT, REAR, AND TOP MARKINGS FOR REFERENCE ONLY.
 4. FRONT PANEL PAINTED - ANSI #61 GRAY SEMI-GLOSS. ALL OTHER SURFACES ARE IRRIDITED ALUMINUM.
 5. FRONT PANEL SILK-SCREENED IN BLACK EPOXY INK.
 6. INPUT MS CONNECTOR AVAILABLE OPTIONALLY ON SELECT MODELS - CONSULT FACTORY FOR DETAILS.

CONNECTOR PIN DESIGNATION

(TYPICAL)

J1 AC OUTPUT

MS3102R24-10S	
MATE: MS3106E24-10P	
PIN	DESCRIPTION
A	PHASE A
B	PHASE B
C	PHASE C
D	NEUTRAL
E	GROUND
F	NOT USED
G	NOT USED



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

