



GALAXY SERIES

RUGGED SINGLE-PHASE OUTPUT

5-10 KW TRUE ONLINE UPS

- *Military Applications*
- *Heavy Industrial Applications*
- *Transformer Isolated Topology*



These units are suitable for applications such as:

- *Military Shelters*
- *Ground Support*
- *Mobile Systems*
- *Tactical Systems*
- *Shipboard Applications*
- *Airborne Applications*
- *Military Ground Vehicles*
- *Communications Systems*



NOVA ELECTRIC



POPULAR OPTIONS

- Power Distribution Units
- MS Connector Mates and Multiple Output Outlets
- Internal Transfer Switch (Static or Electromechanical)
- Custom closures
- Additional Run Time via External Batteries
- 3Ø Power Input
- Premium VRLA Batteries with Up to 12 Year Life
- 400 Hz Input and / or Output
- CAD Free Connectors
- Non-PVC wiring
- 28 VDC Input
- High IP Protection
- AUX DC Outputs
- Environmental Stress Screening Services

CONTACT

100 School Street,
Bergenfield, NJ 07621 USA

(201) 385-0500

novaelectric.com
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GALAXY SERIES RUGGED SINGLE-PHASE OUTPUT

5-10 KW True Online UPS

GENERAL OVERVIEW

Nova Electric's Galaxy-Series true online UPS Systems are high-reliability power sources specifically designed for demanding applications in high shock, vibration, humidity, and EMI environments. They can be built to meet MIL-STD-810, MIL-S-901, MIL-STD-1472, MIL-STD-461, MIL-STD-167 and other standards optionally. Transformer-isolated topology makes these UPSs suitable for very high inrush loads, such as motors and compressors. These models utilize the most durable components, offering maximum field-proven reliability for severe environment and high reliability applications.

SPECIFICATIONS

Input

VOLTAGE (SELECT)	120, 208, 220, 240 VAC (Single Phase) 3 Phase Input Optional
AUTOMATIC	45-65 Hz
FREQUENCY	50 Hz, 60 Hz, and 400 Hz Available
CONNECTIONS	Line Cord, Terminal Block or MS Connector

Output

VOLTAGE (SPECIFY)	120, 208, 220, 240 VAC (Single Phase)
FREQUENCY	50 Hz, 60 Hz, and 400 Hz Available
VOLTAGE REGULATION	±1% No Load to Full Load
DYNAMIC VOLTAGE REGULATION	±10% for 100% Load Change
FREQUENCY REGULATION	±0.5% No Load to Full Load (Free running)
POWER FACTOR	0.7 Lead to 0.7 Lag
HARMONIC DISTORTION	5% THD
EFFICIENCY AT FULL LOAD	75% to 80% AC-AC Typical
SYNC & PHASE LOCK RANGE*	±3 Hz Typical

Other

OVERLOAD	125% for 10 Minutes 1000% for One Cycle (Via Optional Static Transfer Switch)
MTBF	100,000 Hours per Field Data
MTTR	30 Minutes by Qualified Personnel* SYNC Disabled on Certain Models

Environmental

AMBIENT OPERATING TEMPERATURE RANGE	-20° to +50° C*
STORAGE TEMPERATURE RANGE	-40° to +71° C* (Electronics Only)
HUMIDITY	to 95% RH Non-Condensing Designed to meet MIL-STD-810. All boards conformal coated with Acrylic MIL-I-46058 Type R
SHOCK	20g, 11 mS Half Sinewave Designed to Meet MIL-STD-810 Optionally
EMI	Designed to meet FCC Part 15, Class A. Designed to meet MIL-STD-461 with optional additional filtering and shielding
ELEVATION	Operating*: 15,000 Ft. (4,572 m) Non-Operating*: 40,000 Ft. (12,192 m)
AUDIBLE NOISE	Less than 55 dBA at 5 ft. (1.5 m)
TRANSPORTATION AND HANDLING	MIL-STD-810

*Please follow battery manufacturer instructions regarding recommended environmental parameters.

Protective Features

AC & DC INPUT CIRCUIT BREAKERS
LOW BATTERY SHUT OFF
OVERLOAD & THERMAL PROTECTED
INPUT UNDER / OVERVOLTAGE PROTECTED
AUDIBLE ALARM WITH SILENCE SWITCH



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Standard Front Panel Diagnostics

SYSTEM STATUS	Green/Red
UTILITY OFF	Red
UPS OFF	Red
LOW BATTERY	Red
LOGIC FAULT	Red
UPS OVERLOAD	Red
OVER-TEMPERATURE	Red
LOAD ON UTILITY	Red (w/ Static Switch Option)
AC & DC VOLTAGE	Meter

Standard Remote Contacts

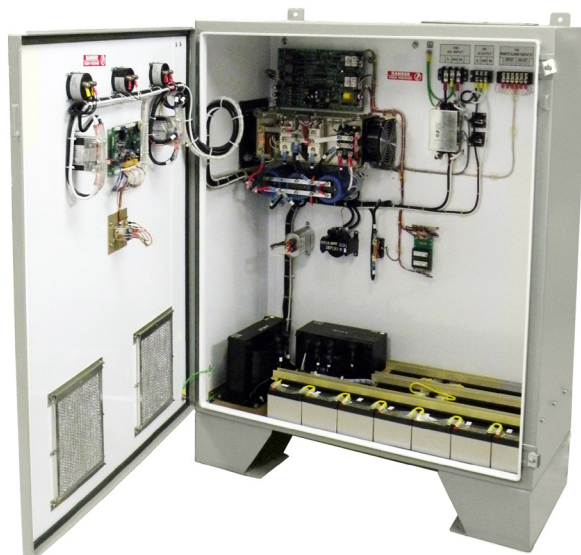
MAJOR ALARM	Logic Fault, Low Battery, Over-Temperature, UPS Off, UPS Overloaded
MINOR ALARM	Utility Off, Load on Utility

Diagnostics

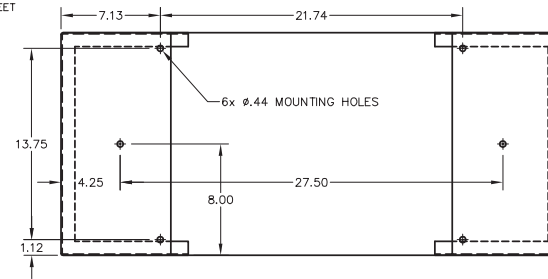
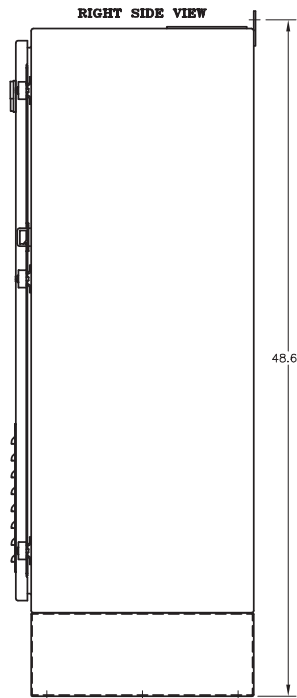
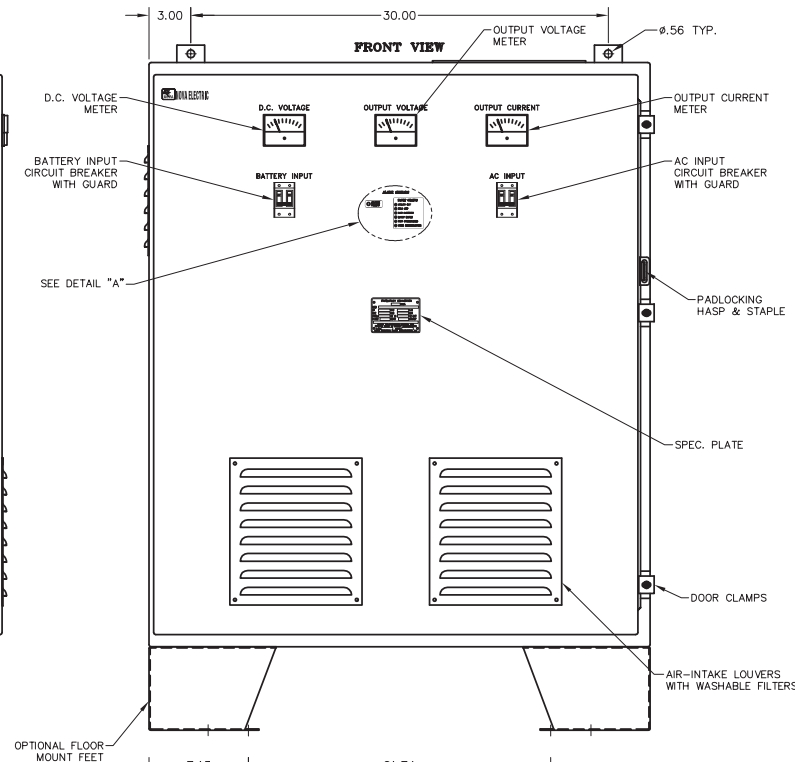
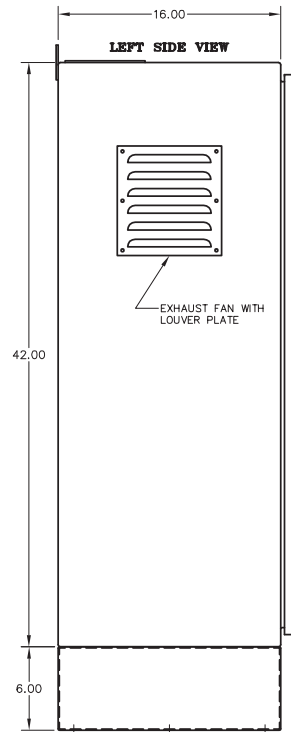
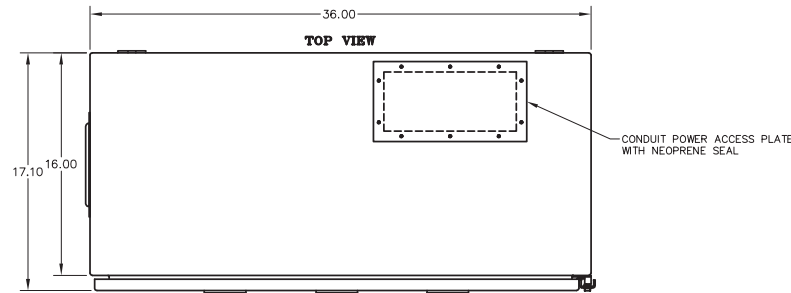
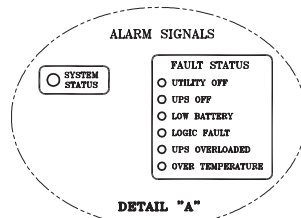
ALARM CONTACTS	Standard
RS 232 OR SNMP	Optional

UPS MODEL	KVA	INPUT	OUTPUT	BATTERY	STANDARD RUNTIME
GH11-5K60-120/208-120	5	120/208 VAC	120 VAC – 60 Hz	Internal	10 Minutes Std. (Higher Optional)
GH11-5K60-120-120	5	120 VAC	120 VAC – 60 Hz	Internal	10 Minutes Std. (Higher Optional)
GH11-5K50-220/380-220	5	220/380 VAC	220 VAC – 50 Hz	Internal	10 Minutes Std. (Higher Optional)
GH11-5K50-220-220	5	220 VAC	220 VAC – 50 Hz	Internal	10 Minutes Std. (Higher Optional)
GH11-7.5K60-120/208-120	7.5	120/208 VAC	120 VAC – 60 Hz	Internal	6 Minutes Std. (Higher Optional)
GH11-7.5K60-120-120	7.5	120 VAC	120 VAC – 60 Hz	Internal	6 Minutes Std. (Higher Optional)
GH11-7.5K50-220/380-220	7.5	220/380 VAC	220 VAC – 50 Hz	Internal	6 Minutes Std. (Higher Optional)
GH11-7.5K50-220-220	7.5	220 VAC	220 VAC – 50 Hz	Internal	6 Minutes Std. (Higher Optional)
GH11-10K60-120/208-120	10	120/208 VAC	120 VAC – 60 Hz	Internal	3 Minutes Std. (Higher Optional)
GH11-10K60-120-120	10	120 VAC	120 VAC – 60 Hz	Internal	3 Minutes Std. (Higher Optional)
GH11-10K50-220/380-220	10	220/380 VAC	220 VAC – 50 Hz	Internal	3 Minutes Std. (Higher Optional)
GH11-10K50-220-220	10	220 VAC	220 VAC – 50 Hz	Internal	3 Minutes Std. (Higher Optional)

Inside View



REVISIONS			
LTR	DESCRIPTION	BY	DATE
-	-	-	-
-	-	-	-



- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE SPECIFIED.
 2. ALL UNDIMENSIONED PICTORIAL CONFIGURATIONS ARE FOR REFERENCE ONLY.
 3. FRONT MARKINGS FOR REFERENCE ONLY.
 4. MODIFY CABINET AS PER DRAWING # T.B.D.
 5. CABINET PAINTED - ANSI #61 GRAY SEMI-GLOSS.
 6. FRONT PANEL SILK-SCREEN IN BLACK EPOXY INK.
 7. CABINET MODEL: HOFFMAN A-423616-LP

ALL DIMENSIONS ARE FROM OUTSIDE.

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DRAWN	RL	DATE	10/12/11	CHECKED	DATE
BT	10/12/11	BT	10/12/11	AL	10/12/11
TOLERANCES UNLESS OTHERWISE SPECIFIED		DIMENSIONS IN INCHES		UNLESS OTHERWISE NOTED	
.XX = \pm .02		.XXX = \pm .005		ANGLE = \pm 1/2°	
WWW.NOVAELECTRIC.COM		DO NOT SCALE		SIZE	
CAGE: 29019		SHEET: 1 of 1		REV.	





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

