



LOXAHATCHEE RIVER DISTRICT

Celebrating 50 Years, 1971-2021

D. Albrey Arrington, Ph.D.
EXECUTIVE DIRECTOR

Gordon M. Boggie
CHAIRMAN

Stephen B. Rockoff
BOARD MEMBER

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BOARD MEMBER

James D. Snyder
BOARD MEMBER

ITB 22-003-00113/N20019

Headworks Standby Generator Upgrades and Improvements

ADDENDUM NO. 002

November 29, 2021

The following changes/additions/clarifications have been made to the original Bid Documents. All Bidders must acknowledge receipt of this Addendum No. 002 in their Bid Response.

1. Correction to Pre-Bid Meeting Minutes Item 24

When are questions due: Questions received less than ten (10) calendar days prior to the deadline to submit Bids will not be answered.

2. The following Questions and Answers.

- a. Attachment D is missing. Where there be a copy of this posted anywhere? **See attached Appendix D**
- b. What size is the fuel tank and who is responsible for supplying the fuel? **The fuel tank is 220 gallons. The District will supply fuel prior to start up.**

2500 Jupiter Park Drive
Jupiter, Florida 33458

TEL: (561) 747-5700

FAX: (561) 747-9929

loxahatcheeriver.org

Water Reclamation - Environmental Education - River Restoration

APPENDIX D

OWNER FURNISHED EQUIPMENT: GENERATOR SUBMITTAL



ACF Standby Systems
Power Generation



0020265618

Engineering Submittal Package

FSA- Loxahatchee 125kw

Dealer:

John Agnes
Sales Engineer
ACF Standby Systems, LLC
Cell (352) 277-6403
j.agnes@acfpower.com
www.acfstandbysystems.com

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SPECIFICATION SHEET

0192540SBY

0K5094

PSTS SER 100-1000A SPC SHT

SD130 6.7L

CONTROL PANEL AND OPTIONS

0172110SBY

SPEC SHEET H-100 CONTROL PANEL

ALTERNATOR AND OPTIONS

0182610SSD

ALT DATA SHT 130 KW

0187980SBY

GENPROTECT DATA SHEET

UNIT OPTIONS

0161970SBY

BATTERY INDEX

0163180SBY

SERIES 2000 ENCL SPEC

0180230SBY

SPEC SHEET RHINO COAT

0189380SSD

EATON CB TABLE THERM/MAG

0191900SBY

2.5A & 10A BATT CHRGR H&G

0192390SSD

EATON CB LUG DATA

0192670SBY

PSTS ATC-300 SPC SHT

0604410SSD

ELEC GOV DIESEL ENG SUB D

084918L_SBM

HEATER BLOCK 1500W 120V

0L6262

E STOP BRK GLS H PNL SUBM

INSTALLATION DRAWINGS

0J4190

INSTALL 6.7L LO G17 390 OPEN

0J4190B

INSTALL 6.7L LO G17 390 ACO

0J4213

INSTALL BASE TANK D6.7L C-GRP

67B8226

SER 225/300A 3P 208-600V 4X

GENSET ELECTRICAL DRAWINGS

0H9862

WD D4.5L/D6.7L G17 H-PANEL

0H9863

SD D4.5L/D6.7L G17 H-PANEL

SYSTEM INTERCONNECT DRAWINGS

0191120SSD

INTERCONNECT DIAG H PANEL

EMISSIONS DATA

0189570SSD

SOUND DATA SD130 6.7L

CERTIFICATIONS

0184520SSD

QUALITY CERTIFICATION DOC

0J4299

2YEAR LIMITED WARRANTY STANDBY

0J4303

2YEAR EXTND WARR-TRNSFR SWITCH

0K8347

ISO CERTIFICATE 9001 : 20

A0000083486

2019 EPA CERT KFPXL06.7DGB-003

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EMSNWRNTY003

EPA WARRANTY STATEMENT US



Date: January 25, 2019

Reference: Loxahatchee River Environmental Control District

We are pleased to offer the following quote for the above project:

FSA 18-VEH16.0 CAB & CHASSIS TRUCKS AND HEAVY EQUIPMENT

125KW Generator Package Specification #76 / 2018-2019

We are pleased to offer the following quote for the above project:

Quantity 1 - Generac Industrial diesel engine-driven generator set with turbocharged/aftercooled 6-cylinder 6.7L engine, consisting of the following features and accessories:

- Stationary Emergency-Standby rated
- **130 kW Rating, wired for 277/480 VAC three phase, 60 Hz**
- Permanent Magnet Excitation
- **Level 1 Acoustic Enclosure, Aluminum**
 - o **Industrial Grey Baked-On Powder Coat Finish**
- UL2200
- EPA Certified
- H-100 Control Panel
 - o Meets NFPA 99 and 110 requirements
 - o Temp Range -40 to 70 degrees C
 - o Digital Microprocessor:
 - Two 4-line x 20 displays, full system status
 - 3 Phase sensing, +/-0.25% digital voltage regulation
 - RS232, RS485 and Canbus remote ports
 - Waterproof connections
 - All engine sensors are 4-20ma for minimal interference
 - Programmable I/O
 - Built-in PLC for special applications
 - o Engine function monitoring and control:
 - Full range standby operation; programmable auto crank, Emergency Stop, Auto-Off-Manual switch
 - Isochronous Governor, +/-0.25% frequency regulation
 - Full system status on all AC output and engine function parameters
 - Service reminders, trending, fault history (alarm log)
 - I2T function for full generator protection
 - Selectable low-speed exercise
 - o HTS transfer switch function monitoring and control
 - o 2-wire start controls for any 2-wire transfer switch
- 160 MPH Wind Load Certified
- Air Filter Restriction Ind
- Battery Charger, 10 Amp, NFPA 110 compliant, installed
- 110 AH, 925 CCA Group 31 Battery, with rack, installed
- Coolant Heater, 1500W
- **24" 220 Gallon Double-Wall UL142 Basetank**
 - o **Mechanical fuel level indicator gauge**

- o **Electronic fuel level sender**
- o **Emergency Vent**
- o **8" Fuel Fill Extension**
- Remote Emergency Stop Switch, Break-Glass, shipped loose
- 3 Owner's Manuals
- 120V GFCI and 240V Outlet
- Primary MLCB, 100% rated thermal-magnetic
 - o 225 Amp
 - o Shunt trip and Auxiliary Contacts
- 2-Year Comprehensive Warranty

Quantity 1 - PSTS Series Automatic Transfer Switch consisting of the following features and accessories:

- **Service Entrance Rated, Open Transition**
- **225 Amp, 3 Pole, 277/480 VAC three phase**
- CUL Listed
- UL1008 Listed
- **NEMA 4X Enclosure**
- ATC-300+ Microprocessor-Based Controller
 - o 2-Line, 32-Character Alphanumeric LCD Display
 - o Front Panel Mimic Diagram with colored LEDs for Source/Load Indication
 - o Standard Features:
 - Sensing and Programmable Setpoints for both Normal (S1) and Emergency (S2): Under-voltage/Under-frequency, Over-voltage/Over-frequency; Voltage Unbalance Sensing and Phase Reversal for all phases
 - Adjustable Time Delays: Engine Start, Transfer Normal to Emergency & Emergency to Normal, Engine Cooldown, Emergency Fail
 - Pushbutton for Bypassing Time Delays on Transfer/Retransfer
 - Test Pushbutton
 - Contacts for Go to Emergency (S2)
 - MODBUS Communication
 - Digital Programmable Plant Exerciser:
 - Off, 1-Day, 7-Day, 14-Day, 28-Day Intervals
 - Adjustable 0-600 Minutes Run Time
 - Selectable for Load or No Load
 - Auxiliary Contacts:
 - Normal (S1) Source Present (2 Form C)
 - Emergency (S2) Source Present (2 Form C)
 - Normal (S1) Position Indication (1 Form C)
 - Emergency (S2) Position Indication (1 Form C)
 - Pre-Transfer Signal Contacts (1 Form C)
- 37A - Service Equipment Rated w/o Ground Fault Protection
- 41A - 100W Space Heater with Adjustable Thermostat
- 42 - IBC/CBC Seismic Qualified
- 12L - Indicator Light, Normal Source Tripped
- 36 - Load Shed from Emergency
- 16N - Overcurrent Protection, Source 1
- 32A - Time Delay Neutral, Adjustable
- Normal Terminal Mechanical Lugs, Customer Connection: (1) #3-350MCM per phase
- Emergency Terminal Mechanical Lugs, Customer Connection: (1) #3-350MCM per phase
- Load Terminal Mechanical Lugs, Customer Connection: (1) #6-350MCM per phase
- Neutral Terminal Mechanical Lugs, Customer Connection: (3) #4-350MCM
- 2-Year Extended Warranty
- ATV3KDC30225XDU

Quantity 1 - Start Up and commissioning includes 2 hour Restive Load Bank Test

Quantity 1 - freight to jobsite off loading by others

Clarifications and Exceptions:

- No Enclosure Wind Load P.E. Calculations. Optional adder.
- Buyers referenced to local, state, or federal government requirements.
- No Anchoring Calculations and/or anchors.
- No Offloading.
- No installation.
- No rigging.
- No power systems or selective coordination study.
- Equipment performance beyond manufacturer's design.
- No Storage or insurance.
- No third-party electrical apparatus testing / inspections, and/or special testing (emissions, noise, harmonics, etc...
- NO NETA Testing Must be performed by third party agency.
- No Special testing equipment (oscilloscope, thermal camera, harmonic analyzer, etc...
- No general, civil and/or plumbing work or materials.
- No electrical and/or mechanical work including materials.
- No engineering or permitting.
- No third-party testing agency.
- No Sound Testing by ACF.
- No fuel or equipment rental.
- No Sub-base in field pressure integrity testing.
- No Maintenance Contract by ACF.

Notes

1. This Quotation is based upon Engineering Specifications ___N/A___ & Drawings N/A. No other sections shall apply. Based of sizing by engineer
2. Quotation is valid for 60 days. If not released to production within 60 days, pricing, delivery extension and escalation charges may apply.
3. ACF Standby Systems is not responsible for any delays in delivery due to Act of Nature, explosion, fire, strikes, accidents, war, terrorism, flood, accidents or other causes beyond our company control. Quoted shipping schedules are not guaranteed and subject to change without notice. In no case is ACF Standby Systems responsible for incidental or consequential damages.
4. ACF Standby Systems does not accept liquidated damages as a part of third party contracts.
5. Equipment will be invoiced (and payment expected according to ACF's Terms and Conditions) at the time of shipment or when ready to ship from point of origin. Delays by the buyer may result in storage fees and/or additional freight charges.
6. The warranty is that of the above-named manufacturer(s). Refer to the manufacturer's warranty statement for details. No special warranty is implied. The Manufacturer's warranty begins on the day of start-up or 6 months after shipment, whichever occurs first, not substantial completion. It is the contractor's responsibility to coordinate start-up along with the date of substantial completion.
7. If the generator set is not installed and ready for startup within 6 months of shipment it will require long term storage procedures. Please refer to the Operation and Maintenance Manual for such requirements. All costs related to long term storage is the responsibility of the purchaser. Failure to follow these procedures may void warranty and affect equipment operation. Contact ACF Standby Systems for assistance.
8. Additional sets of O&M manuals are available at an additional cost. The manufacturer's standard format shall apply. Custom O&M manuals will be available at an additional charge.
9. Startup services will not proceed until the buyer's account is current and in good standing.
10. Quotation does not include offloading, rigging, anchoring, installation, exhaust plumbing, exhaust insulation, fuel or permitting.
11. ACF Standby Systems is not responsible for testing of fuel tank(s) provided by any party. Fuel tank testing, as required by FDEP (Florida Department of Environmental Protection) Chapters 62-761 and 62-762, is the responsibility of the installing Contractor and Generator Permit Applicant. ACF Standby Systems LLC is not responsible for damages or costs incurred by any party, when a fuel tank is filled

before field testing required under FDEP or testing mandated by a Local Inspector of Authority under FBC, is performed.

12. Pricing is subject to ACF Standby Systems Payment Terms.

Terms and Conditions

This proposal is subject to ACF Terms and Conditions of Sale, attached.

Sincerely,

Thank You,

John Agnes



www.ACFStandbySystems.com

John Agnes

Sales Engineer

Mobile (352) 277-6403

Fax (813) 621-6980

Email j.agnes@acfpower.com

Connect

Acceptance of Quote

Prior to ordering equipment or services, please sign and return as a confirmation of the content of this proposal and the attached terms and conditions

Customer Signature

Service Entrance Rated
Molded Case Type
Open and Delayed Transition

Power Series Transfer Switch

100-1000 Amps



Automatic Transfer Switch, 100% Service Entrance Rated
100 – 1000A, Available to 600 VAC, 50/60 Hz
Single & Three phase
2, 3 or 4 poles
NEMA 1, 3R, or 4x
Open and Delayed Transition
UL1008 Listed
CSA C22.2 No. 178 Certified

CODES AND STANDARDS:



UL1008 Listed



NFPA 70, 99, 110, 37



NEC 700, 701, 702, 708



ISO9001, 8528, 3046, 7637, Pluses #2b, 4



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41



Seismic: IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)



IEC 61000 EMC Testing & Measuring



CSA C22.2 No. 178 Certified

DESCRIPTION:

Generac's Service Entrance Power Series Transfer Switch integrates automatic power switching with required disconnecting, grounding, and bonding for use as service entrance equipment. The integrated service entrance power switch meets all National Electrical Code requirements for service entrance equipment in a compact package. The switches are rated for full load transfers in critical operating, emergency, legally required, and optional power systems.

Designed with integral overcurrent protection and 100% rated disconnect breaker for unmatched performance, safety, and reliability. The internal dead front cover allows for manual operation under load with a permanently affixed handle. The full assembly is listed to UL 1008 with exceptional withstand and close on ratings.

The microprocessor-based ATS controller offers standard features of Modbus® RTU and pretransfer contacts, with 3-Phase sensing on both sources plus load for voltage, frequency, sequencing, loss and unbalance. The mimic diagram displays source availability and connection, providing "at a glance" indication, further simplifying users interface. The controller is designed beyond industry EMC standards with a time-stamped history log.

Power Series, Service Entrance Rated, Molded Case Type, Open and Delayed Transition

STANDARD FEATURES:

- Double-throw, mechanically interlocked transfer mechanism
- High withstand and closing ratings
- LCD-based display for programming, system diagnostics and Help Menu display
- Mimic diagram with Source Available and Connected LED indication
- Top, bottom and side cable entry
- Time-stamped history log
- System TEST pushbutton
- Programmable plant exerciser – OFF, daily, 7 day interval selectable run time 0-600 minutes no load/load with failsafe
- Safe manual operation under full load with permanently affixed operating handle
- Modbus® RTU
- Field programmable time delays

VOLTAGE AND FREQUENCY SENSING:

- 3-Phase under and over voltage sensing on normal and emergency sources, plus load
- Under and over frequency sensing on normal, emergency, and load
- 3-Phase sequence sensing for phase sensitive loads
- 3-Phase voltage unbalance and loss sensing

CONTACTS:

- Source available:
 - Source-1 Present, 2-N.O. & 2 N.C.
 - Source-2 Present, 2-N.O. & 2 N.C.
- Switch position:
 - Source-1 Position, 1-N.O. & 1-N.C.
 - Source-2 Position, 1-N.O. & 1-N.C.
- Pre Transfer Contacts: 1-N.O. & 1-N.C.

OPTIONAL FEATURES:

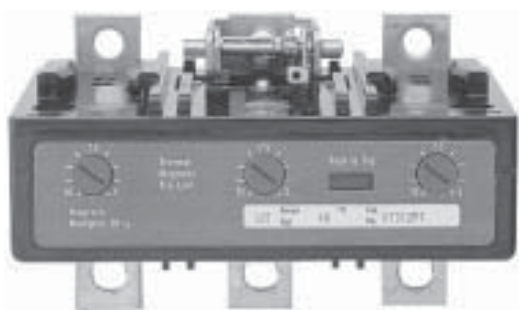
- ATC-900 Digital Controller
- Space Heater with Thermostat
- Digital Multi-function Power Quality Metering
- Ethernet Connectivity
- Remote Annunciator Panel with controller
- Maintenance Selector Switch
- Remote Multi Switch Annunciator Panel with controller
- TVSS
- Stainless steel cover for controller
- Emergency Inhibit
- General Alarm Indication
- Selectable Retransfer
- Manual Generator Retransfer

FAST, POWERFUL AND SAFE POWER SWITCHING MECHANISM:

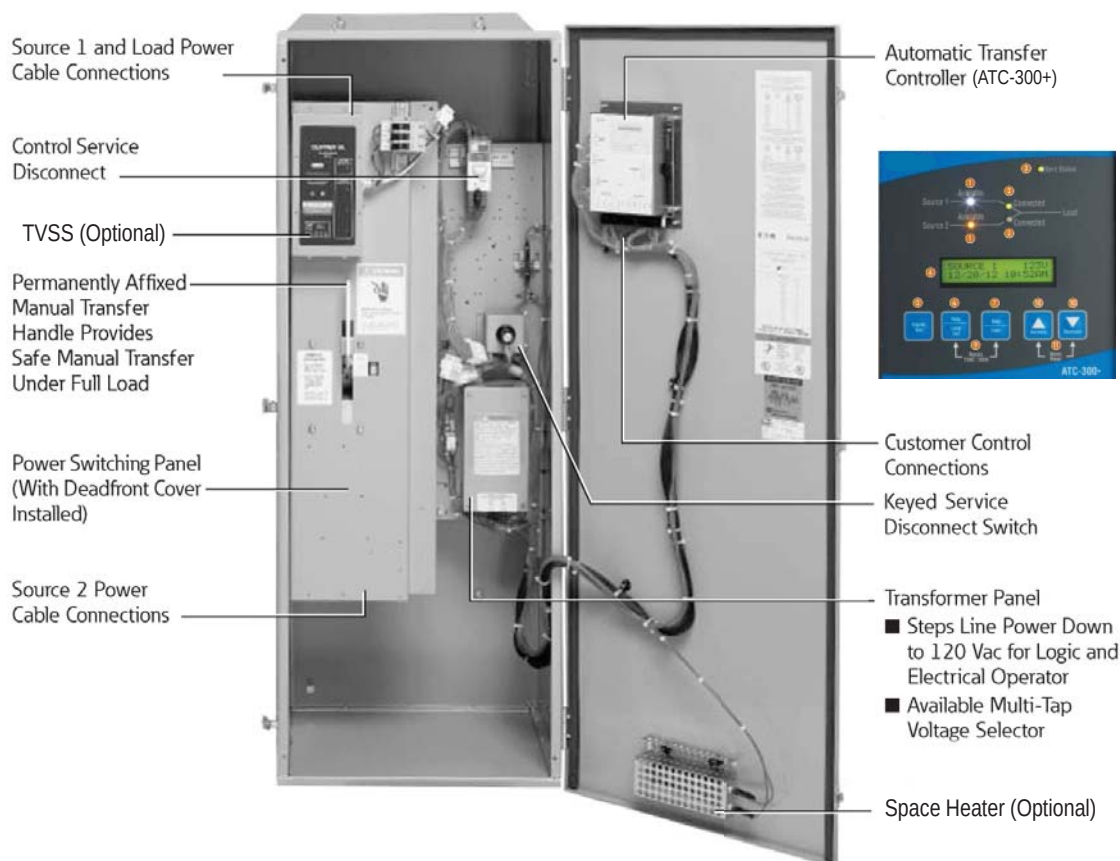
The power panel utilizes a unidirectional gear motor mechanism. The power panel can be operated manually under a full load.

INTEGRAL OVERCURRENT PROTECTION CAPABILITY:

The Service Entrance Power Transfer Switch trip units are integrated in to the power switching section. This eliminates the need for separate upstream protective devices, saving cost and space.



Power Series, Service Entrance Rated, Molded Case Type, Open and Delayed Transition



Components of Automatic Transfer Switches

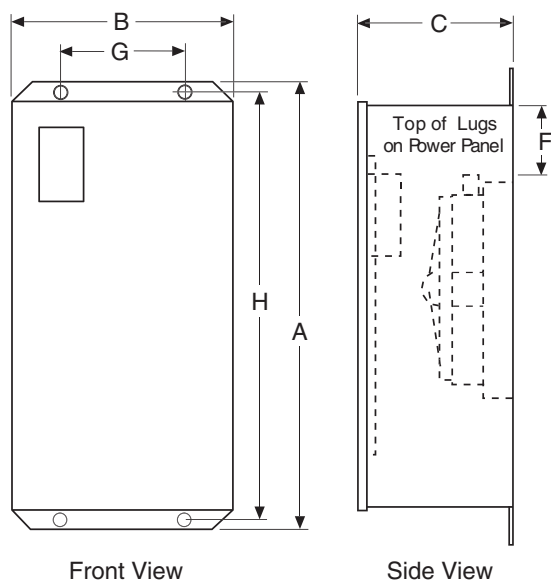
UL1008 Withstand and Close on Ratings as Listed (kA)						
Switch Ampere Rating	3-Cycle Rating			Ratings When Used with Upstream Fuse		
	240 Vac	480 Vac	600 Vac	Maximum Fuse Rating	Fuse Type	600 Vac
100	100	65	25	200	J, T	200
225	100	65	25	400	J, T	200
300	100	65	25	400	J, T	200
400	100	65	25	400	J, T	200
600	100	65 ¹	25	1200	J, T	200
800	65	50 ¹	25	1600	L	200
1000	65	50 ¹	25	1600	L	200

Notes

¹ Four-pole configuration is 35kA for 600, 800 and 1000A.

Power Series, Service Entrance Rated, Molded Case Type, Open and Delayed Transition

UNIT DIMENSIONS:



*Top, bottom and side cable entry

Standard Terminals Dimensions in Inches (mm)

Cu/Al Rated Terminal Lugs (MCM)

Ampere	Breaker Frame	Normal and Emergency Sources	Load	Neutral ¹
100	HFD	(1) #14-1/0	(1) #14-1/0	(3) #14-1/0
225	HFD	(1) #6-300	(1) #6-300	(3) #4-300
225	HKD	(1) #3-350	(1) #6-350	(3) #4-350
225	HKD	(1) #3-350	(1) #6-350	(3) #4-350
300	HKD	(1) #3-350	(1) #6-350	(3) #4-350
400	HLD	(1) 4/0-600	(2) #1-500	(6) 250-350
600	HLD	(1) 3/0-350	(2) #1-500	(6) 250-350
600	HMDL	(2) #1-500	(2) #1-500	(12) 4/0-500
600 (four-pole)	NB	(3) 3/0-400	(3) 3/0-400	(3) 3/0-500
800	HMDL	(3) 3/0-400	(3) 3/0-400	(12) 4/0-500
800	HNB	(3) 3/0-500	(4) 4/0-500	(12) 4/0-500
1000	HNB	(3) 3/0-500	(4) 4/0-500	(12) 4/0-500

Note

¹ Applies to standard two and three pole configurations with solid neutral.

Molded Case Transfer Switches Dimensions in Inches (mm)

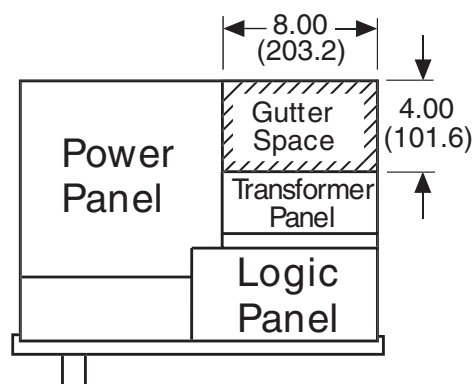
Wall Mount Enclosure				Bolt Pattern			Weight Lbs (kg)
Ampere		Height A	Width B	Depth ¹ C	Horizontal G	Vertical H	
100	HFD ¹	47.74 (1213.0)	20.81 (528.6)	17.22 (437.0)	10.75 (273.0)	46.44 (1180.0)	232 (105)
225	HFD ¹	35.61 (904.0)	20.06 (509.5)	13.34 (339.0)	10.75 (273.0)	34.31 (904.0)	150 (68)
225	HFD	47.74 (1213.0)	20.81 (528.6)	17.22 (437.0)	10.75 (273.0)	46.44 (1180.0)	232 (105)
225	HKD	56.00 (1422.4)	20.81 (528.6)	18.40 (467.4)	11.00 (279.4)	45.50 (1155.7)	305 (138)
300	HKD	53.00 (1346.2)	25.81 (655.6)	18.40 (467.4)	11.00 (279.4)	53.50 (1358.9)	295 (134)
400	HLD	53.00 (1346.0)	25.81 (655.6)	16.65 (422.9)	16.00 (406.4)	51.50 (1308.0)	425 (193)
600	HLD ¹	64.00 (1625.6)	25.81 (655.6)	18.40 (467.4)	16.00 (406.4)	62.50 (1588.0)	475 (214)
600	HMDL	76.74 (1949.2)	25.81 (655.6)	19.50 (495.3)	16.00 (406.4)	75.15 (1908.8)	480 (218)
800	HMDL ¹	76.74 (1949.2)	25.81 (655.6)	19.50 (495.3)	16.00 (406.4)	75.15 (1908.8)	510 (231)
800-1000	HNB	76.74 (1949.2)	25.81 (655.6)	19.50 (495.3)	16.00 (406.4)	75.15 (1908.8)	540 (245)

Notes

¹ 240/120V, single-phase, three-wire or 208V, three-phase, four-wire systems only, without multi-tap transformer.

* For all dimensions and terminations confirm with submittal information.

Available Gutter Space



Top View

Distributed by:

SD130 | 6.7L | 130 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

STANDBY POWER RATING

130 kW, 163 kVA, 60 Hz

PRIME POWER RATING*

117 kW, 146 kVA, 60 Hz



*Built in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the U.S. or its Territories.

**Certain options or customization may not hold certification valid.

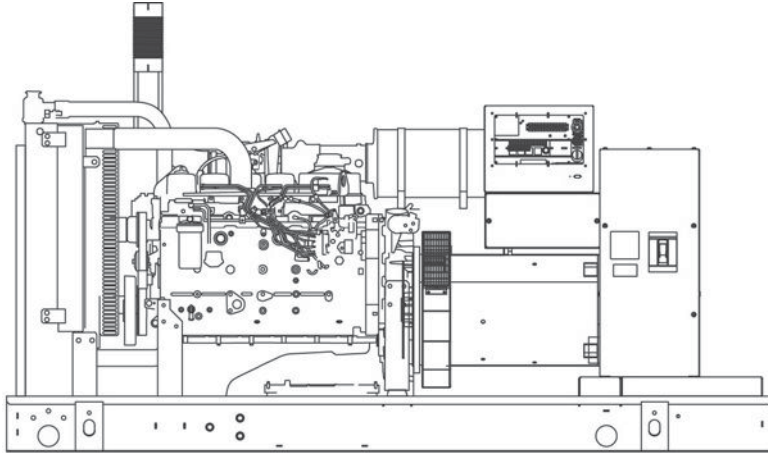


Image used for illustration purposes only

CODES AND STANDARDS

Generac products are designed to the following standards:



UL2200, UL508, UL142, UL498



NFPA70, 99, 110, 37



NEC700, 701, 702, 708



ISO9001, 8528, 3046, 7637,
Pluses #2b, 4



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41

POWERING AHEAD

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

STANDARD FEATURES

ENGINE SYSTEM

General

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel flexible exhaust connection
- Critical Exhaust Silencer (enclosed only)
- Factory Filled Oil
- Radiator Duct Adapter (open set only)

Fuel System

- Fuel lockoff solenoid
- Primary fuel filter

Cooling System

- Closed Coolant Recovery System
- UV/Ozone resistant hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene glycol antifreeze
- 120 VAC Coolant Heater

Engine Electrical System

- Battery charging alternator
- Battery cables
- Battery tray
- Solenoid activated starter motor
- Rubber-booted engine electrical connections

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- 12 leads (3-phase, non 600 V)
- Class H insulation material
- Vented rotor
- 2/3 pitch
- Skewed stator
- Auxiliary voltage regulator power winding
- Amortisseur winding
- Brushless Excitation
- Sealed Bearings
- Automated manufacturing (winding, insertion, lacing, varnishing)
- Rotor dynamically spin balanced
- Full load capacity alternator
- Protective thermal switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of circuits - high/low voltage
- Separation of circuits - multiple breakers
- Silencer Heat Shield
- Wrapped Exhaust Piping
- Silencer housed in discharge hood (enclosed only)
- Standard Factory Testing
- 2 Year Limited Warranty (Standby rated Units)
- 1 Year Limited Warranty (Prime rated Units)
- Silencer mounted in the discharge hood (enclosed only)

ENCLOSURE (IF SELECTED)

- Rust-proof fasteners with nylon washers to protect finish
- High performance sound-absorbing material
- Gasketed doors
- Stamped air-intake louvers
- Air discharge hoods for radiator-upward pointing
- Stainless steel lift off door hinges
- Stainless steel lockable handles
- Rhino Coat™ - Textured polyester powder coat

TANKS (IF SELECTED)

- UL 142
- Double wall
- Vents
- Sloped top
- Sloped bottom
- Factory pressure tested (2 psi)
- Rupture basin alarm
- Fuel level
- Check valve in supply and return lines
- Rhino Coat™ - Textured polyester powder coat
- Stainless hardware

CONTROL SYSTEM



Control Panel

- Digital H Control Panel - Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485
- All-Phase Sensing DVR
- Full System Status
- Utility Monitoring
- Low Fuel Pressure Indication
- 2-Wire Start Compatible
- Power Output (kW)

- Power Factor
- kW Hours, Total & Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance algorithm
- Sealed Boards
- Password parameter adjustment protection

- Single point ground
- 15 channel data logging
- 0.2 msec high speed data logging
- Alarm information automatically comes up on the display

Alarms

- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Battery Voltage Warning
- Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)

CONFIGURABLE OPTIONS

ENGINE SYSTEM

General

- Oil Heater
- Industrial Exhaust Silencer

Fuel System

- Flexible fuel lines
- Primary fuel filter

Engine Electrical System

- 10A UL battery charger
- 2.5A UL battery charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical coating
- Permanent Magnet Excitation

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breaker

GENERATOR SET

- Gen-Link Communications Software (English Only)
- IBC Seismic Certification
- 8 Position Load Center
- 2 Year Extended Warranty
- 5 Year Warranty
- 5 Year Extended Warranty

ENCLOSURE

- Weather Protected
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Steel Enclosure
- Aluminum Enclosure
- 150 MPH Wind Kit 180 MPH
- 12 VDC Enclosure Lighting Kit
- 120 VAC Enclosure Lighting Kit
- AC/DC Enclosure Lighting Kit
- Door Alarm Switch

TANKS (Size on last page)

- Electrical Fuel Level
- Mechanical Fuel Level
- 8" Fill Extension
- 13" Fill Extension

CONTROL SYSTEM

- 21-Light Remote Annunciator
- Remote Relay Panel (8 or 16)
- Oil Temperature Sender with Indication Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- Remote Communication - Modem
- Remote Communication - Ethernet
- 10A Run Relay
- Ground Fault Indication and Protection Functions

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant heater ball valves
- Block Heaters
- Fluid containment pans

ALTERNATOR SYSTEM

- 3rd Breaker Systems

CONTROL SYSTEM

- Spare inputs (x4) / outputs (x4) - H Panel Only
- Battery Disconnect Switch

GENERATOR SET

- Special Testing

ENCLOSURE

- Motorized Dampers
- Door switched for intrusion alert
- Enclosure ambient heaters

TANKS

- Overfill Protection Valve
- UL2085 Tank
- ULC S-601 Tank
- Stainless Steel Tank
- Special Fuel Tanks (MIDEQ and FL DEP/DERM, etc.)
- Vent Extensions

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Iveco/FPT
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emissions Data Sheet
Cylinder #	6
Type	In-Line
Displacement - L (cu In)	6.7 (406.86)
Bore - mm (in)	104 (4.09)
Stroke - mm (in)	128 (5.2)
Compression Ratio	16.5:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head Type	2 Valve
Piston Type	Alloy Aluminum
Crankshaft Type	Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	+/- 0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow
Crankcase Capacity - L (qts)	17 (18)

Cooling System

Cooling System Type	Closed Recovery
Water Pump	Belt Driven Centrifugal
Fan Type	Pusher
Fan Speed (rpm)	2538
Fan Diameter mm (in)	599 (23.6)
Coolant Heater Wattage	1500
Coolant Heater Standard Voltage	120 V /240 V

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specifications	ASTM
Fuel Filtering (microns)	5
Fuel Injection	Stanadyne
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line mm (in)	12.7 (0.5) NPT
Fuel Return Line mm (in)	12.7 (0.5) NPT

Engine Electrical System

System Voltage	12 VDC
Battery Charging Alternator	Std
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	390
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<3%
Telephone Interference Factor (TIF)	<50

Standard Excitation	Synchronous Brushless
Bearings	Single Seated Cartridge
Coupling	Direct, Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
All	All
Regulation Accuracy (Steady State)	± 0.25%

SD130 | 6.7L | 130 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

		Standby
Single-Phase 120/240 VAC @1.0pf	130 kW	Amps: 542
Three-Phase 120/208 VAC @0.8pf	130 kW	Amps: 451
Three-Phase 120/240 VAC @0.8pf	130 kW	Amps: 391
Three-Phase 277/480 VAC @0.8pf	130 kW	Amps: 195
Three-Phase 346/600 VAC @0.8pf	130 kW	Amps: 156

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

Alternator	kW	480 VAC						208/240 VAC					
		10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	130	116	174	232	290	348	406	87	131	174	218	261	305
Upsize 1	150	133	199	265	332	398	464	100	149	199	249	299	340
Upsize 2	200	187	280	373	467	560	653	140	210	280	350	420	490

FUEL CONSUMPTION RATES*

Diesel - gal/hr (l/hr)

Fuel Pump Lift - ft (m)	Percent Load	Standby
3 (1)	25%	2.9 (11.0)
	50%	5.4 (20.4)
Total Fuel Pump Flow (Combustion + Return)	75%	7.7 (29.1)
29.1 gal/hr	100%	9.6 (36.3)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Coolant Flow per Minute	gal/min (l/min)	44.6 (168.8)
Coolant System Capacity	gal (L)	5.65 (21.4)
Heat Rejection to Coolant	BTU/hr	353,900
Inlet Air	cfm (m³/hr)	7900 (223.7)
Max. Operating Radiator Air Temp	F° (C°)	122 (50)
Max. Ambient Temperature (before derate)	F° (C°)	104 (40)
Maximum Radiator Backpressure	in H ₂ O	0.5

COMBUSTION AIR REQUIREMENTS

		Standby
Flow at Rated Power	cfm (m³/min)	390 (11.05)

ENGINE

		Standby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	198
Piston Speed	ft/min (m/min)	1559 (475)
BMEP	psi	213

EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m³/min)	910 (25.8)
Max. Backpressure (Post Silencer)	inHg (Kpa)	1.5 (5.1)
Exhaust Temp (Rated Output)	°F (°C)	960 (516)
Exhaust Outlet Size (Open Set)	mm (in)	101.6 (4)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

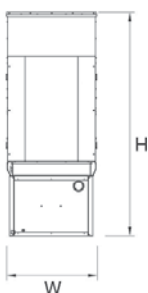
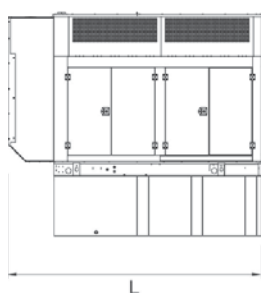
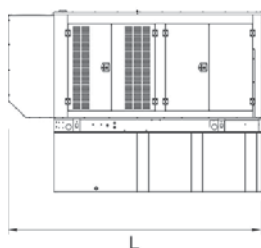
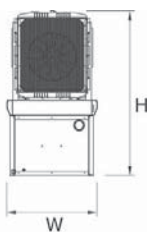
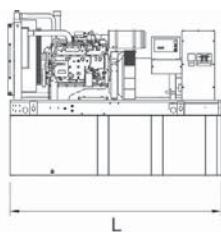
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

SD130 | 6.7L | 130 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*



YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

OPEN SET

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Tank & Open Set
NO TANK	-	110 (2794) x 40 (1016) x 65 (1651)	3104 (1408)
9	90 (340.7)	110 (2794) x 40 (1016) x 77 (1955.8)	3813 (1730)
23	220 (832.8)	110 (2794) x 40 (1016) x 89 (2260.6)	4146 (1881)
36	350 (1324.9)	110 (2794) x 40 (1016) x 101 (2565.4)	4488 (2036)
53	510 (1930.6)	110 (2794) x 40 (1016) x 105 (2667)	4469 (2029)
61	589 (2229.6)	128 (3251.2) x 49 (1244.6) x 107 (2717.8)	4948 (2244)
72	693 (2623.3)	136 (3454.4) x 53 (1346.2) x 107 (2717.8)	4667 (2117)

STANDARD ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only	
			Steel	Aluminum
NO TANK	-	133 (3378) x 40 (1016) x 64 (1625.6)	500 (227)	165 (75)
9	90 (340.7)	133 (3378) x 40 (1016) x 77 (1956)		
23	220 (832.8)	133 (3378) x 40 (1016) x 89 (2261)		
36	350 (1324.9)	133 (3378) x 40 (1016) x 101 (2565)		
53	510 (1930.6)	133 (3378) x 47 (1194) x 105 (2667)		
61	589 (2229.6)	133 (3378) x 49 (1125) x 107 (2718)		
72	693 (2623.3)	133 (3378) x 53 (1346) x 107 (2718)		

LEVEL 1 ACOUSTIC ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only	
			Steel	Aluminum
NO TANK	-	154 (3912) x 40 (1016) x 64 (1626)	750 (340)	250 (112)
9	90 (340.7)	154 (3912) x 40 (1016) x 77 (1956)		
23	220 (832.8)	154 (3912) x 40 (1016) x 89 (2261)		
36	350 (1324.9)	154 (3912) x 40 (1016) x 101 (2565)		
53	510 (1930.6)	154 (3912) x 47 (1194) x 105 (2667)		
61	589 (2229.6)	154 (3912) x 49 (1245) x 107 (2718)		
72	693 (2623.3)	154 (3912) x 53 (1346) x 107 (2718)		

LEVEL 2 ACOUSTIC ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only	
			Steel	Aluminum
NO TANK	-	145 (3683) x 40 (1016) x 81 (2057)	1000 (454)	330 (150)
9	90 (340.7)	145 (3683) x 40 (1016) x 84 (2134)		
23	220 (832.8)	145 (3683) x 40 (1016) x 106 (2692)		
36	350 (1324.9)	145 (3683) x 40 (1016) x 118 (2997)		
53	510 (1930.6)	145 (3683) x 47 (1194) x 122 (3099)		
61	589 (2229.6)	145 (3683) x 49 (1245) x 124 (3150)		
72	693 (2623.3)	145 (3683) x 53 (1346) x 124 (3150)		

*All measurements are approximate and for estimation purposes only. Sound dBA can be found on the sound data sheet. Enclosure Only weight is added to Tank & Open Set weight to determine total weight.

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

H-100 CONTROL PANEL



DESCRIPTION

- Digital controls for all safety shutdowns
- Isochronous governor control
- Digital 3Ø sensing voltage regulator
- Sealed Digital Circuit Board
- 2 Amp static battery charger
- Mates with HTS transfer switch and any 2-wire start ATS
- Alarm and event logging
- Built-in diagnostics
- Internal PLC
- Optional modem with dialout

STANDARD FEATURES

The Quiet-Test™ H-100 Control Panel is a digital microprocessor electronic controller that integrates all engine and transfer switch functions into a single control system.

- Two 4 line x 20 displays
- Full system status
- 3 phase sensing digital voltage regulator
- Remote ports
 - RS232
 - RS485
 - Canbus
- Water proof connections
- All engine sensors are 4-20 ma for minimal interference
- Built in PLC

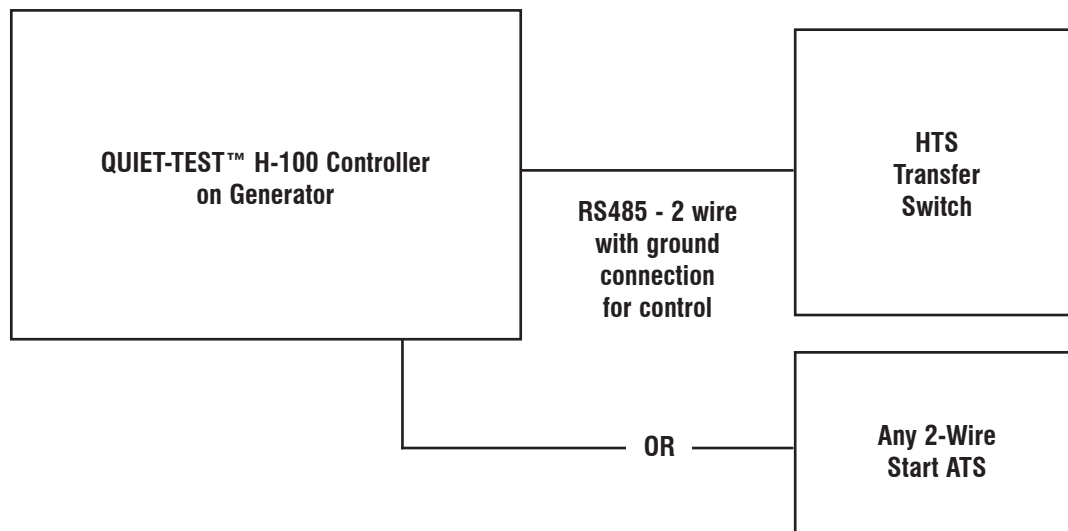
In addition, the generator set parameters can be manipulated and monitored without standing in front of the control panel with GenLink® software. The Generac H-100 control also monitors and controls transfer switch functions when used with the HTS Transfer Switch.

- Monitors utility voltage
- Monitors generator voltage
- Timer for line interrupt delay
- Timer for engine warmup
- Timer for minimum engine run time
- Timer for return to utility position
- Timer for engine cooldown
- Built in exerciser timer (7 day)
- Additional 2 wire start controls for any 2 wire transfer switch.

H-100 CONTROL PANEL

- Full range stand-by operation
- Full system status
 - 3 phase AC volts
 - 3 phase amps
 - kW
 - Power factor
 - Reactive power
 - Oil pressure
 - Water temperature
 - Water level
 - Oil temperature (optional)
 - Fuel pressure
 - Engine speed
 - Battery voltage
 - Alternator frequency
 - Time
 - Date
 - Transfer switch status
 - Run hours
 - Service reminders
 - Trending
 - Fault history (alarm log)
 - I²t function for full generator protection
 - Built in PLC for special applications
- Shutdowns
 - Overvoltage
 - Overspeed
 - Low oil pressure
 - High coolant temperature
 - Low coolant level
- Remote communication
 - RS232
 - Optional modem
 - Canbus
- Configurable to NFPA 110, level 1 or 2
- Programmable auto crank
- Emergency Stop
- On Off Manual Switch
- Not in Auto flashing light
- Audible alarm for fault condition
- Transfer switch logic communicates with HTS transfer switch
- Weekly exerciser (programmable)
- Selectable Low speed exercise
- Digital voltage regulator with 3 phase sensing (3 phase units)
- Isochronous governor
- Waterproof electrical connectors
- Temperature Range -40° to 70° C

TYPICAL CONTROL CONNECTION



ALTERNATOR DATA SHEET

K0130124Y21

General Characteristics

Voltages (V)	208/240 and 480	Number of Leads	12
Frequency (Hz)	60	Winding Type	Reconnectable
Phases	3	Air Flow (cfm)	483
Speed (rpm)	1800	Total Harmonic Distortion (%)	<5
Excitation System	PMG/Brushless	Largest Single Harmonic Value (%)	<3.5
Insulation Class	H	Telephone Interference Factor (TIF)	<50
Winding Pitch	2/3	Reference Part Number	0J1385F01R, 0L4175V01R, 0J1385E01R, 0L4175E01R

Ratings at 0.8 pf based on 40°C Ambient

Voltage (V)	80°C Rise		105°C Rise		120°C Rise		150°C Rise	
	kW	kVA	kW	kVA	kW	kVA	kW	kVA
208/240	99	124	119	149	130	162	140	175
480	99	124	119	149	130	162	140	175

Base Data at 480V, 162 kVA, 1800 RPM, 60 Hz, 3 Phase

Description	Value
Stator Resistance, Line to Line, High Wye Connection (Ω)	0.0250
Rotor Resistance (Ω)	2.2000
Exciter Stator Resistance - PMG/Brushless (Ω)	5.5000/6.0000
Exciter Rotor Resistance - PMG/Brushless (Ω)	0.5155/0.4565
Excitation Winding Resistance - PMG/Brushless (Ω)	1.3334/0.5042
Xd, Direct Axis Synchronous Reactance (p.u.)	2.630
X2, Negative Sequence Reactance (p.u.)	0.230
X0, Zero Sequence Reactance (p.u.)	0.030
X'd, Direct Axis Transient Reactance (p.u.)	0.180
X''d, Direct Axis Subtransient Reactance (p.u.)	0.140
Xq, Quadrature Axis Synchronous Reactance (p.u.)	1.150
T'd, Direct Axis Transient Short Circuit Time Constant (s)	0.054

Description	Value
T''d, Direct Axis Subtransient Short Circuit Time Constant (s)	0.008
T'do, Direct Axis Transient Open Circuit Time Constant (s)	1.235
Ta, Short Circuit Time Constant of Armature Winding (s)	0.018
Phase Sequence CCW-NDE	T1, T2, T3
Voltage Balance, L-L or L-N (%)	2.5
Deviation Factor (%)	7
High Wye Connection, Sustained 3-Phase Short Circuit Current (%) - PMG only	300
X/R	7
Short Circuit Ratio	0.46
Heat Rejection (BTU/hr) - 100% Rated Load, 480V, 0.8pf, 120°C Temp. Rise	59,916

Reference: Mil-STD-705B
All Ratings are Nominal

ALTERNATOR DATA SHEET

K0130124Y21

sKVA

	10%	15%	20%	25%	30%	35%
480 V @ 0.3PF	77	120	169	223	292	361
480 V @ 0.6PF	94	139	192	251	327	403
208/240 V @ 0.3PF	78	120	169	223	294	365
208/240 V @ 0.6PF	89	137	192	250	327	404

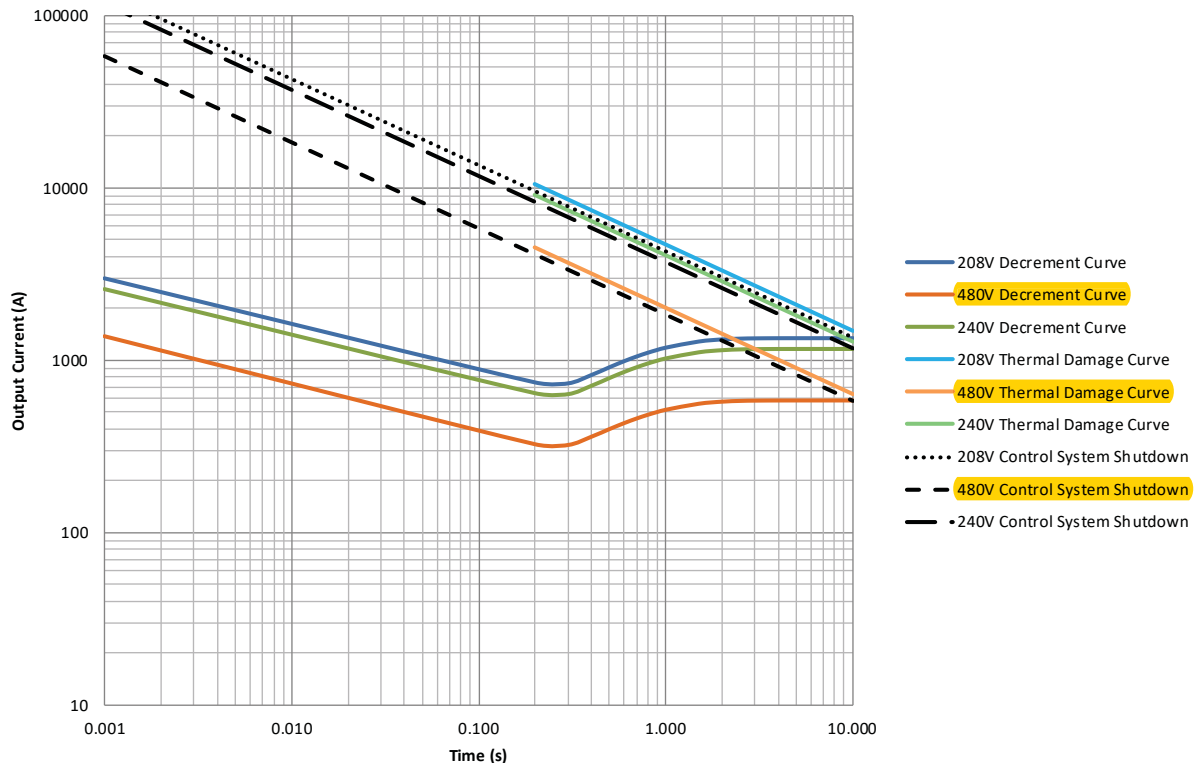
Efficiencies

	480 @ 0.8 PF	480 @ 1.0 PF	208/240 @ 0.8PF	208/240 @ 1.0 PF
20% Rated Power*	86.8	88.0	86.9	88.1
40% Rated Power*	89.9	92.0	90.1	92.0
60% Rated Power*	90.0	92.8	90.1	92.8
80% Rated Power*	89.3	92.6	89.1	92.5
100% Rated Power*	88.1	92.1	88.0	92.0

*Rated Power value is rating kW at 120°C Winding Temp Rise and 0.8pf

LOG LOG Decrement Curve

Balanced 3-Phase Short Circuit Decrement & Thermal Damage Current Limit Curves



GENPROTECT™

Seamless protection for industrial power generators

GENprotect Operation

The design choice of an onsite power system using a Generac Industrial Power Generator assures your emergency power source is protected from unexpected power distribution faults. Typically, a generator will include some type of over-current device, such as a circuit breaker, or be protected by inherent design with the controller protecting the alternator through a protection algorithm. Generac's GENprotect generator protection system monitors the system current output and protects the alternator with extended security against fault scenarios that could occur within the site's downstream distribution system.

It is a common misconception that the alternator's main circuit breaker protects the alternator from a short circuit event. The main output breaker protects the cabling and provides a convenient disconnect. The characteristic trip curve for the industry standard thermal magnetic breaker (MCCB, molded case thermal magnetic or solid state) does not coordinate with the thermal damage limitation for an on-site generator. If circuit breakers are used for generator protection, a solid-state circuit breaker with full adjustments (Long Time, Short Time and Instantaneous, LSI) is required to coordinate the breaker protection curve within the generator thermal damage curve. Historically, this limitation was often accepted in system design since failures of the main generator feeder are extremely rare. Most short circuit events happen at a branch circuit, equipment level, where the fault is easily cleared by the smaller down stream breakers.

Given the mission critical nature of today's back-up power applications, it is more desirable to protect the system against even relatively rare failure modes. As generator controllers have become more powerful it is feasible for manufactures to supply coordinated short circuit protection integral to the generator control system, negating the need for a main-line circuit breaker.

Generac's GENprotect alternator protection algorithm monitors the generator output. If this monitoring senses short circuit current in excess of rated amps, GENprotect steps in to provide a controlled and safe approach to breaker coordination and alternator protection. GENprotect first limits the alternator short circuit current level to 300%. By limiting the available fault current, GENprotect extends the time the alternator can maintain fault current resulting in consistent breaker coordination. Without this functionality a line to neutral fault may be at 800% of rated current and need to be cleared within 1.4 seconds.

The second function GENprotect performs is I²T thermal protection for the alternator. Since a short circuit event can heat the alternator so rapidly, it is not possible to protect the alternator by monitoring temperature. Instead GENprotect calculates the heat energy of the fault current. When this energy reaches the limits of NEMA MG1, GENprotect trips the generator off-line. This configuration ensures the alternator is protected and the power system is ensured 10 seconds of 300% fault current for breaker coordination.

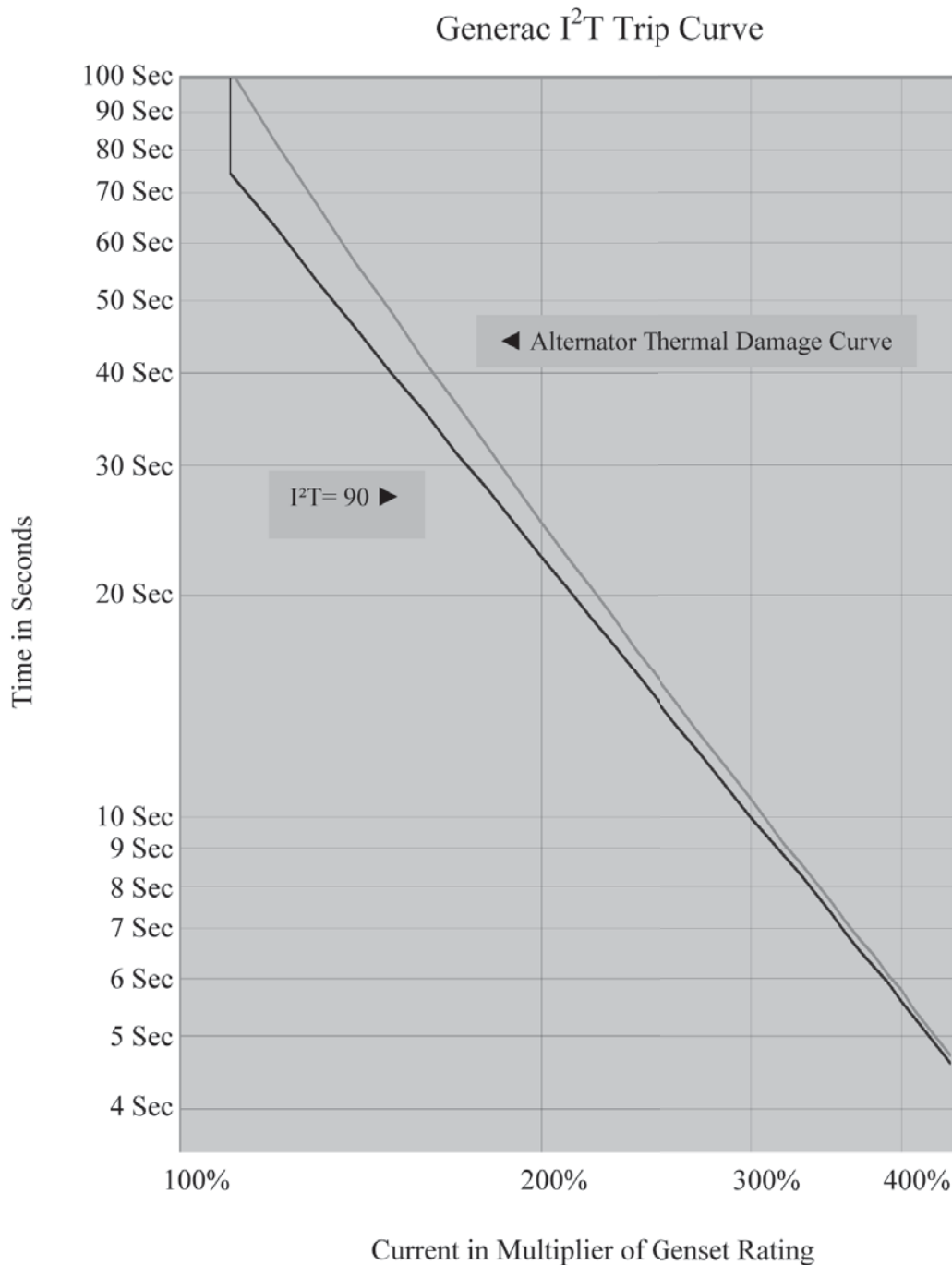
DESCRIPTION

- GENprotect is an alternator protection algorithm approved by UL.
- Protects alternator from damage due to shorts and electrical faults.
- Provides breaker coordination and alternator protection.
- Allows for use of multiple circuit breaker choices, including "no" breaker.



GENPROTECT™

Seamless protection for industrial power generators



The above Figure shows the Generac GENprotect thermal protection curve for use in protection and coordination studies. The alternator Thermal Damage Curve is shown just to the right of the GENprotect protection curve. If the alternator load is greater than the thermal damage protection curve for the alternator, the generator set will trip off-line. For example, an overload current of 110% for 75 seconds causes an overload alarm and will trip the generator off-line, shutting down the engine. GENprotect will provide generator protection over a full range of time and current, from instantaneous faults to overloads lasting several minutes. An advantage of GENprotect over a MCCB is that GENprotect allows for downstream breakers to clear faults without tripping the generator off-line, providing selective coordination with the first level of downstream breakers.

INDUSTRIAL GENSET BATTERY INDEX

• Warranty by Exide Corp. • Exide e-mail: tbгна@exide.com • 800-782-7848 National Hot line • Dry Batteries Available**

Industrial Spark-Ignited Gensets - Available Batteries

Engine	System Voltage	Battery Quantity	Generac Part #				
			058208 (Group 24F)	077483 (Group 26)	058665 (Group 27F)	061119 (Group 31)	061104 (Group 8D)
G2.4	12	1		X			
G5.4	12	1	X		X or D	X or D	
G6.8	12	1			X or D	X or D	
G8.0/G9.0	12	1			X or D	X or D	
G14.2	24	2					X or D
G21.9	24	2					X or D
G25.8	24	2					X or D
G33.9	24	4					X

X = Battery available with electrolyte and installed in genset.

D = Battery available dry and installed in genset.

Industrial Diesel Gensets - Available Batteries

Engine	System Voltage	Battery Quantity	Generac Part #			
			058665 (Group 27F)	061119 (Group 31)	061104/BT0015A00 (Group 8D)	BT0015A02 (Group 8D)
D2.4 Generac	12	1	X or D	X or D		
D3.4 Generac	12	1	X or D	X or D		
D4.5 FPT	12	1		X or D		
D6.7 FPT 100 & 130kW	12	1 or 2†		X or D		
D6.7 FPT 150 & 175kW	12	2†		X or D		
D8.7 FPT	24	2		X or D		
D10.3 FPT	24	2		X or D	X or D	
D12.9 FPT	24	2		X or D	X or D	
D12.5 Perkins	24	2			X or D	
D15.2 Perkins	24	2			X or D	
D16.0 Volvo	24	2		X or D	X or D	
D18.1 Perkins	24	2			X or D	
D33.9 MHI	24	2			X	X
D37.1 MHI	24	4			X	X
D49.0 MHI	24	4			X	X
D65.4 MHI	24	4			X	X

X = Battery available with electrolyte and installed in genset.

D = Battery available dry and installed in genset.

† = Single or dual-paralleled battery options are available on 100 & 130kW. Single-battery option not available on 150 & 175kW.

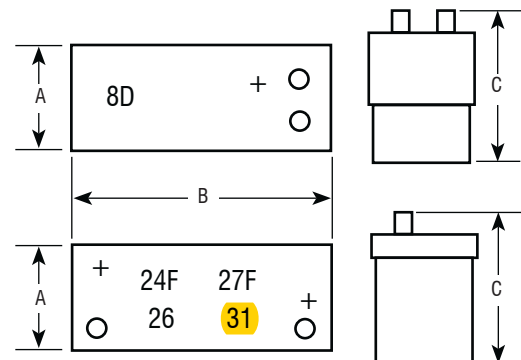
Part Number	Group Number*	Nominal CCA @ 0° F	Dimensions (inches) Nominal		
			A	B	C
058208	24F	525	6.75	10.63	9.00
077483	26	525	6.75	8.25	7.75
058665	27F	700	6.75	12.50	9.00
061119	31	925	6.75	13.00	9.40
061104/ BT0015A00	8D	1155	11.00	20.80	10.00
BT0015A02	8D	1300	11.00	20.80	10.00

All batteries are 12 volt, 6 cell construction, lead calcium type.

For 24 volt systems, batteries are wired in series.

* BCI Group Size reference.

** Add an "A" suffix to the Generac part number for dry batteries, which are shipped without electrolyte.



GENERATOR ENCLOSURES



DESCRIPTION

GENERAC POWER SYSTEMS' generator enclosures provide year-round weather protection for your power equipment. Engineered with functionality and value in mind, the enclosure design benefits are unique in that the enclosures utilize dimensionally matched components for either a weather protective configuration or a sound attenuated/acoustic configuration. With common components used between design, modification and on-site upgrades can be accomplished with ease.

The enclosure design offers several benefits over the "standard enclosures" of other manufacturers. Generac's enclosures have been created with the goal of maximizing the customer's product performance satisfaction while maintaining the functionality of reducing exterior noise levels and discouraging product tampering.

Although others may require a "premium" for a self-enclosed exhaust system, rugged steel panel construction or protective polyethylene washers under all exterior panel fasteners, Generac includes these and several other features on every enclosure configuration. Be sure to compare. Generac Enclosures offer additional design enhancement extras that other "standard enclosures" do not.

GENERATOR ENCLOSURES

Post-Free Twin Doors

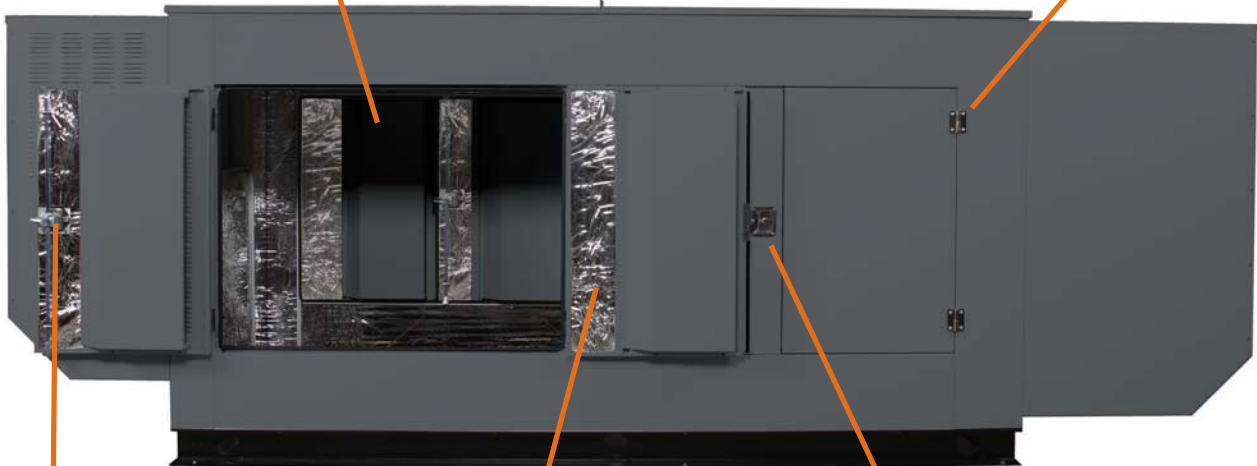
Provide Large, Unobstructed Service Access



**Gasket-Free, Interconnected
Roof Panel Joint**
Drip-Free, Maintenance-Free

Heavy Gauge, Stainless Steel, Partial Pin Hinges

Durable, Corrosion-Free,
Removable Doors



Two-Point Door Latch System

Ensures Proper Seal
Preventing Water Ingress
and Sound Egress



Dense, Closed-Cell Foam Insulation with Reflective Silver Mylar Layer

Improved Sound Attenuation Without
Damaging Effects From Radiant Heat
Exposure



Lockable Turn and Tuck Stainless Steel Latch Handle

Corrosion-Free, Non-
Protruding and Secure



GENERATOR ENCLOSURES

FEATURES:

Dimensional matching of acoustic and non-acoustic enclosure designs

Standardized enclosure components *

Enclosure mounted directly to unit baseframe

Electrostatically painted panels

12 or 14 gauge steel based on kW rating

Aluminum Enclosure optional

Stainless steel door latch and hinge hardware

Stainless steel door latch strike plate

Door hinges utilize slip-pin design

Polyethylene gasketing under door hinges

Keyed door latches

Large removable access doors

Relocation of access doors

Redesigned door gasketing

Weather resistant aluminum roof design with drip ledge

Cabled and gasketed radiator access cover

Acoustic roof panels manufactured with mechanical retention pins

Polyethylene washers under all panel fasteners

Internally fastened enclosure panels (where possible)

Additional roof panel stiffener

Self-enclosed exhaust system

Discharge air duct has been designed with minimal fasteners

Stainless steel exhaust band clamps

Drain holes within air ducts

Rodent-proof, tamper proof enclosure design

Redesigned baseframe lifting lugs

150mph wind kit options 180MPH

BENEFITS:

Reduces variation in fuel tank pricing, inventory; removes need to change out fuel tank or retrofit

Ease of retrofit or upgrade to acoustic system; reduced parts inventory, costs

Simplified delivery and installation with enclosure and unit in single component design

Maximum protection from weather elements

Maximum sound attenuation, protection and product life

Prevents corrosion in coastal regions

Provides extended component life; maximum protection against rusting

Maximum protection against enclosure paint damage from door latch pin

Provides quick door removal for full-unit access

Additional protection for enclosure paint finish

Protection for equipment and personnel

Ease of maintenance

Provides improved access to MLCB on all units

Improved sealing quality from sound and weather elements

Provides optimum moisture/rain runoff from unit

Provides improved radiator access and additional protection from weather elements

Increased acoustic foam retention within unit

Additional paint finish protection from stainless steel fastener

Provides streamlined unit appearance

Added overall compartment rigidity and acoustic foam panel retention

Provides safe unit operation; no enclosure hot spots; streamlined unit appearance

Ease of removal and access to exhaust system

Provides extended component life; ensures proper exhaust seal

Enables maximum water run-off

Safety and security for personnel and equipment

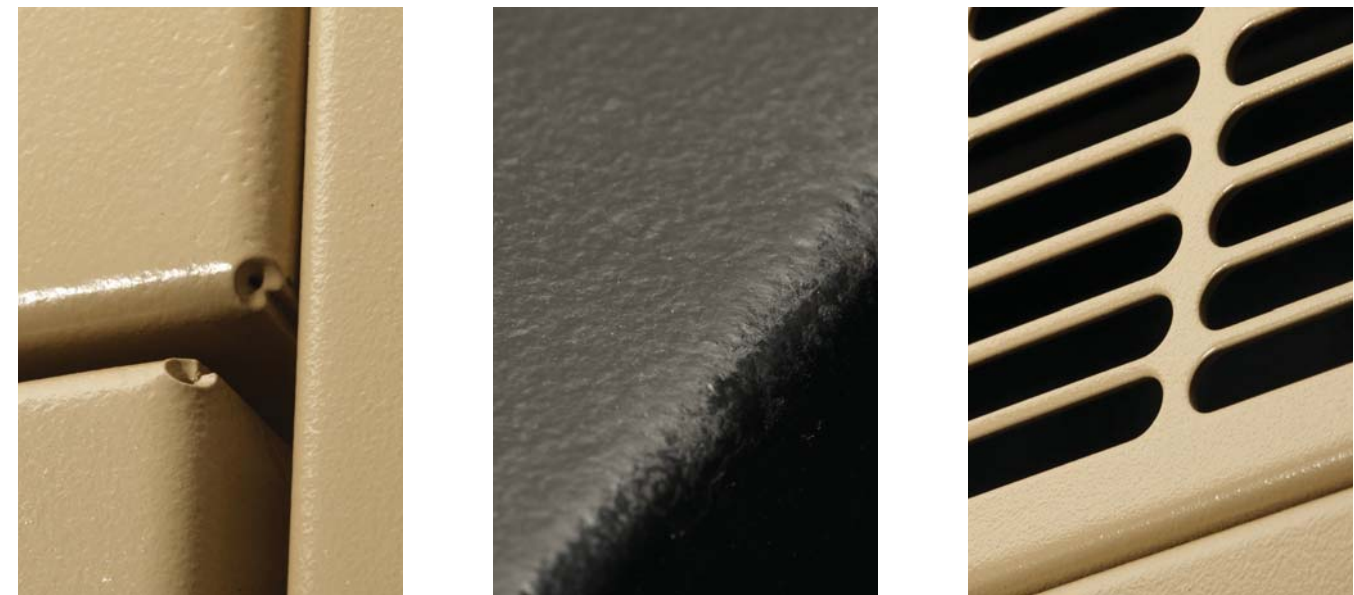
Ease of unit relocation; prevents compartment damage from lifting straps

Meets locally enforced wind requirements

* Consult Generac Power Systems, Inc. for installation drawings for specific configurations and dimensions.

GENERATOR SET STANDARD

Rhino Coat



Generac's RhinoCoat™ finish system provides superior durability as a standard for all Generac industrial enclosures, tanks and frames.*

testing standard

Generac's RhinoCoat™ finished surfaces are subjected to numerous tests. These include:

- ASTM D - 1186 - 87.....2.5+ MIL PAINT THICKNESS
- ASTM D - 3363 - 92a.....ADEQUATE MATERIAL HARDNESS
- ASTM D 522 - B.....RESISTANT TO CRACKING
- ASTM D 3359 - B.....EXCEPTIONAL ADHESION
- ASTM B117 D 1654.....RESISTANT TO SALT WATER CORROSION
- ASTM D1735 D 1654.....RESISTANT TO HUMIDITY
- ASTM 2794 93 (2004).....EXCEPTIONAL IMPACT RESISTANCE
- SAEJ1690 - UV SPECIFICATIONS.....UV PROTECTION

In addition to the testing standards above, Generac adds the following test requirements more specific to generator applications:

- RESISTANT TO TYPICAL OILS
- RESISTANT TO TYPICAL FUELS
- RESISTANT TO TYPICAL ANTIFREEZE
- RESISTANT TO DISTILLED WATER

primary codes and standards



*RhinoCoat powder coat paint is durable and corrosion resistant however it is not a rust preventative. Generac pretreats all powdercoated parts to assist with resistance to corrosion.

EATON CIRCUIT BREAKERS

100% RATED THERMAL-MAGNETIC

AMPS	VOLTS	ACCESSORIES	EATON PART No.	SERIES	FRAME	GENERAC PART No.
70	600	No Accessories	JGE3070FAGC	G	JG-FRAME	0H9302TH00
		Shunt Trip & Aux. Contacts	JGE3070FAGCA2() ²			0H9302TH() ³
80	600	No Accessories	JGE3080FAGC	G	JG-FRAME	0J0841TH00
		Shunt Trip & Aux. Contacts	JGE3080FAGCA2() ²			0J0841TH() ³
90	600	No Accessories	JGE3090FAGC	G	JG-FRAME	0J0837TH00
		Shunt Trip & Aux. Contacts	JGE3090FAGCA2() ²			0J0837TH() ³
100	600	No Accessories	JGE3100FAGC	G	JG-FRAME	0H9314TH00
		Shunt Trip & Aux. Contacts	JGE3100FAGCA2() ²			0H9314TH() ³
125	600	No Accessories	JGE3125FAGC	G	JG-FRAME	0J0231TH00
		Shunt Trip & Aux. Contacts	JGE3125FAGCA2() ²			0J0231TH() ³
150	600	No Accessories	JGE3150FAGC	G	JG-FRAME	0H9315TH00
		Shunt Trip & Aux. Contacts	JGE3150FAGCA2() ²			0H9315TH() ³
175	600	No Accessories	JGE3175FAGC	G	JG-FRAME	0H9316TH00
		Shunt Trip & Aux. Contacts	JGE3175FAGCA2() ²			0H9316TH() ³
200	600	No Accessories	JGE3200FAGC	G	JG-FRAME	0J0232TH00
		Shunt Trip & Aux. Contacts	JGE3200FAGCA2() ²			0J0232TH() ³
225	600	No Accessories	JGE3225FAGC	G	JG-FRAME	0H9317TH00
		Shunt Trip & Aux. Contacts	JGE3225FAGCA2() ²			0H9317TH() ³
250	600	No Accessories	JGE3250FAGC	G	JG-FRAME	0H9318TH00
		Shunt Trip & Aux. Contacts	JGE3250FAGCA2() ²			0H9318TH() ³
300	600	No Accessories	LGE3300FAGC	G	LG-FRAME	0H9319TH00
		Shunt Trip & Aux. Contacts	LGE3300FAGCA2() ²			0H9319TH() ³
350	600	No Accessories	LGE3350FAGC	G	LG-FRAME	0H9320TH00
		Shunt Trip & Aux. Contacts	LGE3350FAGCA2() ²			0H9320TH() ³
400	600	No Accessories	LGE3400FAGC	G	LG-FRAME	0H9321TH00
		Shunt Trip & Aux. Contacts	LGE3400FAGCA2() ²			0H9321TH() ³
500	600	No Accessories	LGE3500FAGC	G	LG-FRAME	0H9323TH00
		Shunt Trip & Aux. Contacts	LGE3500FAGCA2() ²			0H9323TH() ³
600	600	No Accessories	LGE3600FAGC	G	LG-FRAME	0H9324TH00
		Shunt Trip & Aux. Contacts	LGE3600FAGCA2() ²			0H9324TH() ³
700*	600	No Accessories	CMDLB3800T33W	C	M-FRAME	0H9325TH00
		Shunt Trip & Aux. Contacts	CMDLB3800T33WA13S02			0H9325THB0
800*	600	No Accessories	CMDLB3800T33W	C	M-FRAME	0H9326TH00
		Shunt Trip & Aux. Contacts	CMDLB3800T33WA13S02			0H9326THB0
900 ¹	600	No Accessories	NGS312033MCZ08	G	NG-FRAME	0H9327TH00
		Shunt Trip & Aux. Contacts	NGS312033MCA12S03Z08			0H9327THB0
1000 ¹	600	No Accessories	NGS312033MCZ08	G	NG-FRAME	0H9328TH00
		Shunt Trip & Aux. Contacts	NGS312033MCA12S03Z08			0H9328THB0
1200 ¹	600	No Accessories	NGS312033MCX23Y08	G	NG-FRAME	0H9329TH00
		Shunt Trip & Aux. Contacts	NGS312033MCA12S03Y08			0H9329THB0
1400 ¹	600	No Accessories	RGH316033MCY22	G	RG-FRAME	0H9360TH00
		Shunt Trip & Aux. Contacts	RGH316033MCA12S21Y22			0H9360THB0
1600 ¹	600	No Accessories	RGH316033MCY22	G	RG-FRAME	0H9361TH00
		Shunt Trip & Aux. Contacts	RGH316033MCA12S21Y22			0H9361THB0
2000 ¹	600	No Accessories	RGH320033MC	G	RG-FRAME	0H9367TH00
		Shunt Trip & Aux. Contacts	RGH320033MCA12S21			0H9367THB0

*LS-type electronic trip breaker RMS 310 trip unit.

¹LS-type electronic trip breaker equipped with RMS 310+ trip unit.

²S4 = 12VDC

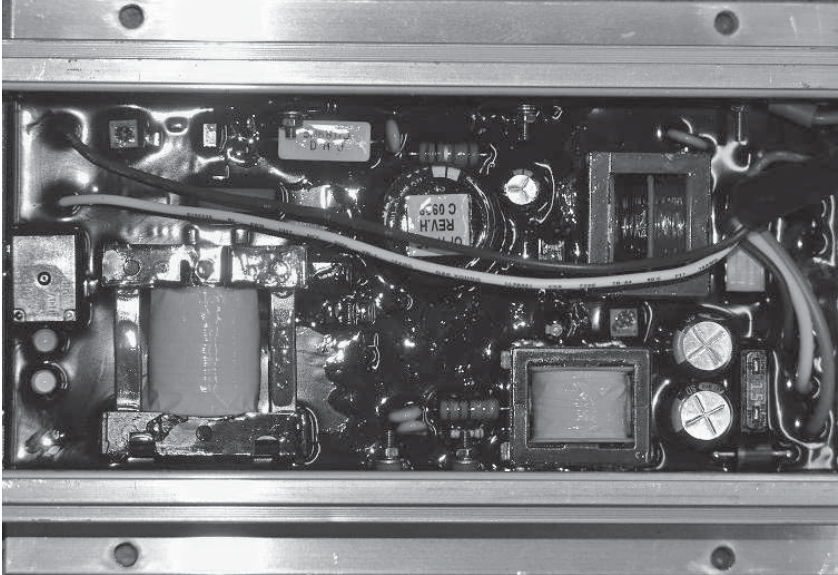
²S6 = 24VDC

³B0 = 12VDC

³C0 = 24VDC

BATTERY CHARGER

2.5A & 10A



Battery Charger shown from inside of Control Panel Enclosure.
Connections are made via an attached harness.

The Generac 2.5A 12V and 10A 12/24V battery chargers are designed to work with Generac Industrial Controls to provide the ultimate in automatic battery voltage maintenance.

The 2.5A charger is self-regulating and produces instantaneous output current adjustments to keep the battery charged to an optimum level. Battery voltage is read on the control panel digital display.

The 10A charger has automatic float and equalize control. It precisely monitors the battery's voltage and automatically activates the correct charging mode. The charge rate is limited and controlled to efficiently and safely maintain ideal battery levels under varying conditions.

The equalize system uses a control circuit to limit charging current to 10 Amps. When battery voltage drops below a preset level, charging current increases to 5 Amps and then to the 10 Amp charge rate if needed. When the battery reaches maximum charge, the charger switches to float mode to supply just enough current to maintain the battery at or above 13/26 Volts. Battery voltage and charging current are read at the control panel digital display.

Specifications	2.5A	10A
Nominal Input	120 VAC	120 VAC
Operating AC Line Voltage Range	108 to 132 VAC	108 to 132 VAC
Input AC Line Frequency	50/60 Hz	50/60 Hz
Battery Fuse	N/A	15A
Nominal Charge Rate	2.5A	10A
Equalize Voltage		13.8/27.6 Volts
Float Voltage	13.4 Volts	13.0/26.0 Volts
Current @ Equalize to Float Transition		5A
Battery Under-voltage shutdown	N/A	11/22 Volts
LED Indicators		
AC Line Voltage	N/A	Green LED
Battery Connected and charging	N/A	Yellow LED
Battery Current Drain	30 Milliamp	30 Milliamp
AC Line Connection	Connector Plug	Connector Plug
Battery Connection	Connector Plug	Connector Plug
Control Connection		AC Power Fail Form Relay Form C 2A Rating
CUL Recognized	Yes	Yes
NFPA 110 Compliant	No	Yes
AGM Compatible	No	Yes



EATON CIRCUIT BREAKER DATA LUG INFORMATION

Eaton Series C Circuit Breaker Lugs

Amps	Series	Frame	Standard Lug	
			Eaton Part #	Wire (QTY) Size
15-70	C	G	-	(1) #10-1/0
15-100	C	F	3T100FB	(1) #14-1/0
125-200	C	F	3TA225FD	(1) #4-4/0
225	C	F	3TA225FDK	(1) #6-300MCM
250	C	J	TA250KB	(1) #4-350MCM
300	C	K	TA350K	(1) 250-500MCM
350-400	C	K	3TA400K	(2) 3/0-250MCM
450-500	C	L	TA602LD	(2) 3/0-350MCM
600	C	L	3TA603LDK	(2) 400-500MCM
700-800	C	M	TA800MA2	(3) 3/0-400MCM
900-1000	C	N	T1200NB3	(4) 4/0-500MCM
1200	C	N	TA1201NB1	(3) 500-750MCM

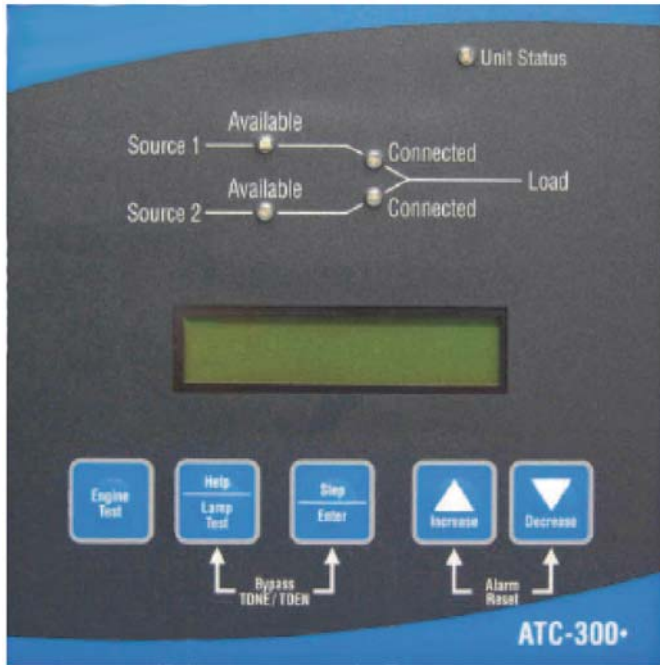
Eaton Series G Circuit Breaker Lugs

Amps	Series	Frame	Standard Lug	
			Eaton Part #	Wire (Qty) Size
50-250	G	JG	TA250FJ	(1) #4-350MCM
300-600	G	LG	3TA632LK	(2) #2-500MCM
900-1000	G	NG	T1200NB3	(4) 4/0-500MCM
1200	G	NG	TA1201NB1	(3) 500-750MCM
1400-1600	G	RG	T1600RD	(4) 1-600MCM
2000	G	RG	Lugs Not Included	
2500	G	RG	Lugs Not Included	

ATC-300+

Power Series Transfer Switch

Automatic Transfer Switch Open and Delayed Transition Controller



Automatic Transfer Switch, Open and Delayed Transition Controller
Available to 600VAC switches

50/60 Hz

Single & Three phase

UL recognized component

CODES AND STANDARDS:



UL recognized component, complies with UL1008 and UL 991



NFPA 70, 99, 110, 37 (complies)



Applicable for use in
NEC 700, 701, 702, 708



ISO9001, 8528, 3046, 7637, Pluses #2b, 4



ANSI C62.41



Seismic IBC 2009, CBC 2010, IBC 2012,
ASCE 7-05, ASCE 7-10, ICC-ES AC-156
(2012) Certified in ATS assemblies



IEC 61000-4-2, 3, 4, 5, 6, 11 EMC
Testing & Measuring (complies)



FCC Part 15, Class A (complies)

CISPR 11, Class A

DESCRIPTION:

The ATC-300+ microprocessor-based ATS controller is unmatched in performance, reliability and functionality for critical operating, emergency, legally required and optional power systems. The easy to use front LCD display panel simplifies programming, routine operation, data presentation, and setting adjustments. The mimic diagrams displays source availability and connection, providing “at a glance” indication, further simplifying users interface. Designed beyond industry EMC standards, the ATC-300+ is rock-solid for transfer control operations, monitoring and reporting.

Customer/factory established parameters are stored in non-volatile memory. The controller has field-programmable time delays, plus displays real-time and historical information with a time-stamped history log. System testing is performed via a front screen test pushbutton. Features also include programmable plant exerciser—OFF, daily, 7, 14, 28-day interval programmable run times. With the standard features of pretransfer contacts, 3 phase sensing on utility and generator source, phase unbalance, phase reversal, load shed/emergency inhibit, and communications (Modbus® RTU) the ATC-300+ is the industry benchmark for transfer switch controllers. The ATC-300+ complies with UL 1008 / CSA C22.2-178.

Automatic Transfer Switch, Open and Delayed Transition Controller

STANDARD FEATURES:

The ATC-300+ monitors the condition of the 3-phase line-to-line voltage and frequency of both the utility and generator power sources. It also provides the necessary intelligence to ensure that the transfer switch operates properly through a series of programmed sensing and timing functions.

- Monitors both voltage and frequency on utility and generator
- Provides undervoltage and overvoltage protection of the utility and generator power sources
- Provides underfrequency and overfrequency protection of the utility generator power source
- Permits easy customer set up
- Displays real-time and historical information
- Permits system testing
- Stores customer/factory established parameters in nonvolatile memory
- Provides faceplate source status indications

FRONT PANEL DESCRIPTION:

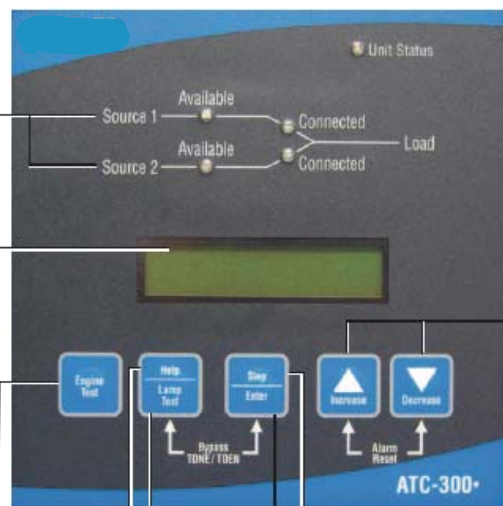
A 2-line, 32-character alphanumeric LCD Display provides a readout on all ATC-300+ controller monitored parameters, setpoints, and messages in easy to read formats (English, French). The display has a green high contrast background that allows clear visibility of any information displayed. The display is continuously lit for clear visibility under poorly lit or no light conditions.

Source 1, Source 2, and Load Colored LED lights show status of both Sources and Load.

LED Display
Unit will provide LED readout showing actual metered values for Voltage, Frequency, and Condition (including Normal, Undervoltage, Overvoltage, etc.)

Engine Test Button
Initiates engine test.

Help
Brings up display messages, explanations, and prompts.



Lamp Test

Enter

Step Button

INPUT FUNCTIONS:

- Help/Lamp Test
- Engine Test
- Step/Enter
- Increase
- Decrease
- Alarm Reset
- Bypass Time Delay

OUTPUT FUNCTIONS:

- Unit Status
- Utility Available
- Utility Connected
- Generator Available
- Generator Connected

Automatic Transfer Switch, Open and Delayed Transition Controller

SPECIFICATIONS:

System Application Voltage	Up to 600 VAC RMS	50/60 Hz
Input Control Voltage	65 to 145 VAC	50/60 Hz
Voltage Measurements of	Utility VAB Utility VBC Utility VCA	Generator VAB Generator VBC Generator VCA
Voltage Measurement Range	0 to 790 VAC RMS	50/60 Hz
Voltage Measurement Accuracy	± 1% of Full Scale	
Frequency Measurements of	Utility and Generator (Source 1 and Source 2)	
Frequency Measurement Range	40 Hz to 70 Hz	
Frequency Measurement Accuracy	± 0.3 Hz Over the Measurement Range	
Operating Temperature Range	-20 to +70°C (-4 to +158°F)	
Storage Temperature Range	-30 to +85°C (-22 to +185°F)	
Operating Humidity	0 to 95% Relative Humidity (Non-condensing)	
Operating Environment	Resistant to Ammonia, Methane, Nitrogen, Hydrogen, and Hydrocarbons	
Generator Start Relay	5 A, 1/6 HP @ 250 VAC 5 A @ 30 VDC with a 150 W Maximum Load	
K1, K2 Relays	10 A, 1-3 HP @ 250 VAC 10 A @ 30 VDC	

PROGRAMMABLE SETPOINTS:

Undervoltage Dropout Range		
Breaker/Switch Style ATS	50% to 97% of the Nominal System Voltage	
Contactors Style ATS	78% to 97% of the Nominal System Voltage	
Undervoltage Pickup Range		
Breaker/Switch Style ATS	(Dropout + 2%) to 99% of the Nominal System Voltage	
Contactors Style ATS	(Dropout + 2%) to 99% of the Nominal System Voltage	
Overvoltage Dropout Range		
Breaker/Switch Style ATS	105% to 120% of the Nominal System Voltage	
Contactors Style ATS	105% to 110% of the Nominal System Voltage	
Overvoltage Pickup Range		
Breaker/Switch Style ATS	103% to (Dropout -2%) of the Nominal System Voltage	
Contactors Style ATS	103% to (Dropout -2%) of the Nominal System Voltage	
Underfrequency Dropout Range		
Breaker/Switch Style ATS	90% to 97% of the Nominal System Frequency	
Contactors Style ATS	90% to 97% of the Nominal System Frequency	
Underfrequency Pickup Range		
Breaker/Switch Style ATS	(Dropout + 1Hz) to 99% of the Nominal System Frequency	
Contactors Style ATS	(Dropout + 1Hz) to 99% of the Nominal System Frequency	
Overfrequency Dropout Range		
Breaker/Switch Style ATS	103% to 110% of the Nominal System Frequency	
Contactors Style ATS	103% to 105% of the Nominal System Frequency	
Overfrequency Pickup Range		
Breaker/Switch Style ATS	101% to (Dropout -1Hz) of the Nominal System Frequency	
Contactors Style ATS	101% to (Dropout -1Hz) of the Nominal System Frequency	

Automatic Transfer Switch, Open and Delayed Transition Controller

ADDITIONAL PROGRAMMING SETTINGS

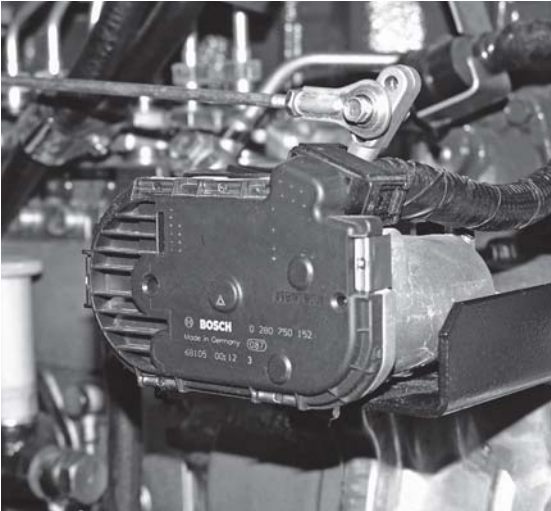
Time Delay Nml to Emr	0 to 1800 seconds
Time Delay Emr to Nml	0 to 1800 seconds
Time Delay Engine Cool	0 to 1800 seconds
Time Delay Engine Start	0 to 120 seconds
Time Delay Neutral ¹	0 to 120 seconds
Time Delay Source 2 Fail	0 to 6 seconds
Time Delay Volt Unbal	10 to 30 seconds
Volt Unbal 3-Phase	0 or 1 (1 = Enable)
% of Unbal Volt Dropout	5% to 20% (DO) Dropout -2% to 3% (PU)
Nominal Voltage	120 to 600 Volts
Nominal Frequency	50 or 60Hz
Baud Rate	9600 or 19,200
Phase Reversal 3-Phase	OFF, ABC, or CBA
In-Phase ²	0 or 1 (1 = Enable)
Pre-Transfer Signal	1 to 120 seconds
Manual/Retransfer	0 or 1 (1 = Enable)
Plant Exerciser	Off, Daily, 7-Day, 14-Day, 28-Day Intervals 0 to 600 minutes Load or No Load
Daylight Svgs Time Adj	0 or 1 (1 = Enable)
System Selection	Utility/Generator or Dual Utility
Modbus Address	1 to 247
Communications	Modbus RTU® Ethernet and/or Remote Annunciator (Optional)
Applicable Testing	UL Recognized Component UL 1008, UL 991 Environmental IEC 61000-4-2, 61000-4-3, 61000-4-4, 61000-4-5, 61000-4-6, 61000-4-11 CISPR 11, Class A FCC Part 15, Class A
Enclosure Compatibility	NEMA 1, NEMA 3R, NEMA 4X, and 12 UV Resistant ATC-300+ Faceplate

1. Not available on open transition with inphase only switches

2. Not available on molded case type switches

GENERAC ELECTRONIC GOVERNOR

DIESEL ENGINES



- Regulation.....Isochronous
- Steady State Regulation.....±0.25%
- Factory installed and adjusted
- Fully adjustable via GenLink® software
- Fast response
- High reliability
- No maintenance required

ACTUATOR

DESCRIPTION:
Die cast enclosure housing the gear-driven rotary actuator. The interior components are sealed against dust, dirt and moisture. The gear drive is mechanically linked to the injection pump. Spring-return to no-fuel position upon loss of power.

DESIGN.....	Bosch
TYPE.....	Motor-Driven Actuator
OPERATING VOLTAGE.....	12/24vdc
RESPONSE TIME.....	<100 msec
OPERATING TEMPERATURE RANGE.....	-40°F to 284°F
OUTPUT.....	Rotary

CONTROLLER

DESCRIPTION:
Governor driver module located in the generator control panel. Sealed unit with waterproof connections. Feedback circuit from the actuator for fuel rack position. Generac DCP software-controlled speed governing, fully adjustable via GenLink®.

The Generac electronic governor system is standard on the following diesel gensets with Generac's Digital Control Platform (G or H panel) control system:

- 2.4L 10-30kW
- 3.4L 35-50kW
- 4.5L 50-80kW
- 6.7L 100-130kW

COOLANT HEATER OPTION 1500 WATT, 120VAC

SPECIFICATIONS:

VOLTAGE: 120VAC

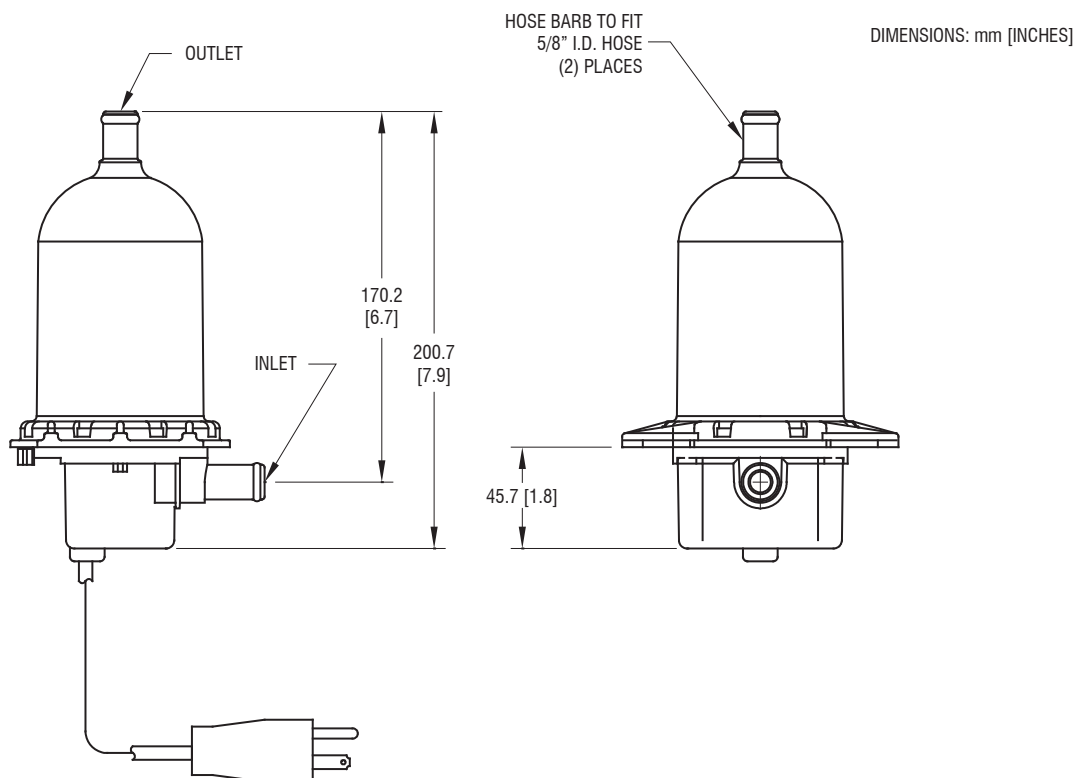
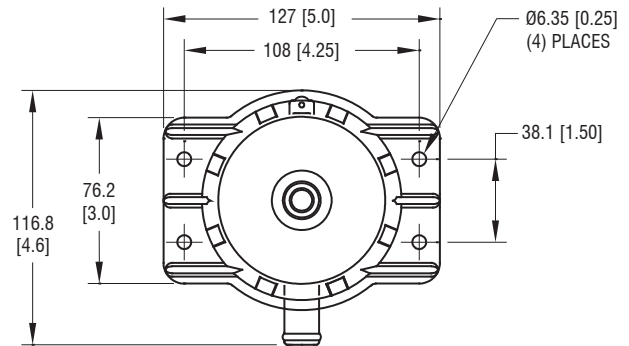
HEAT POWER: 1500W

FIXED THERMOSTAT: 80°-100°F

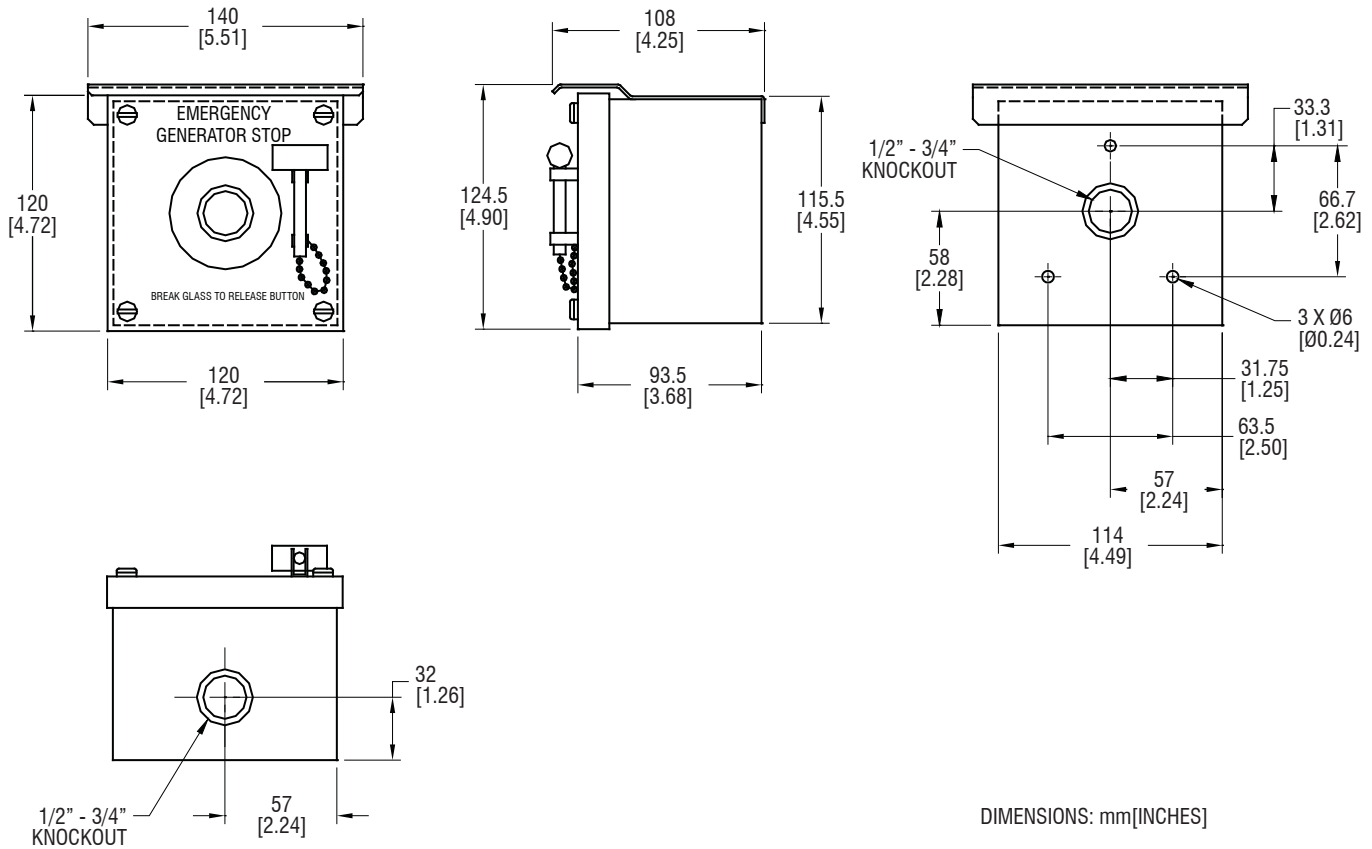
HEATING ELEMENT: INCOLOY 800

MAXIMUM PRESSURE: 90 PSI (620 kPa)

PLUG NEMA STD: 5-15P

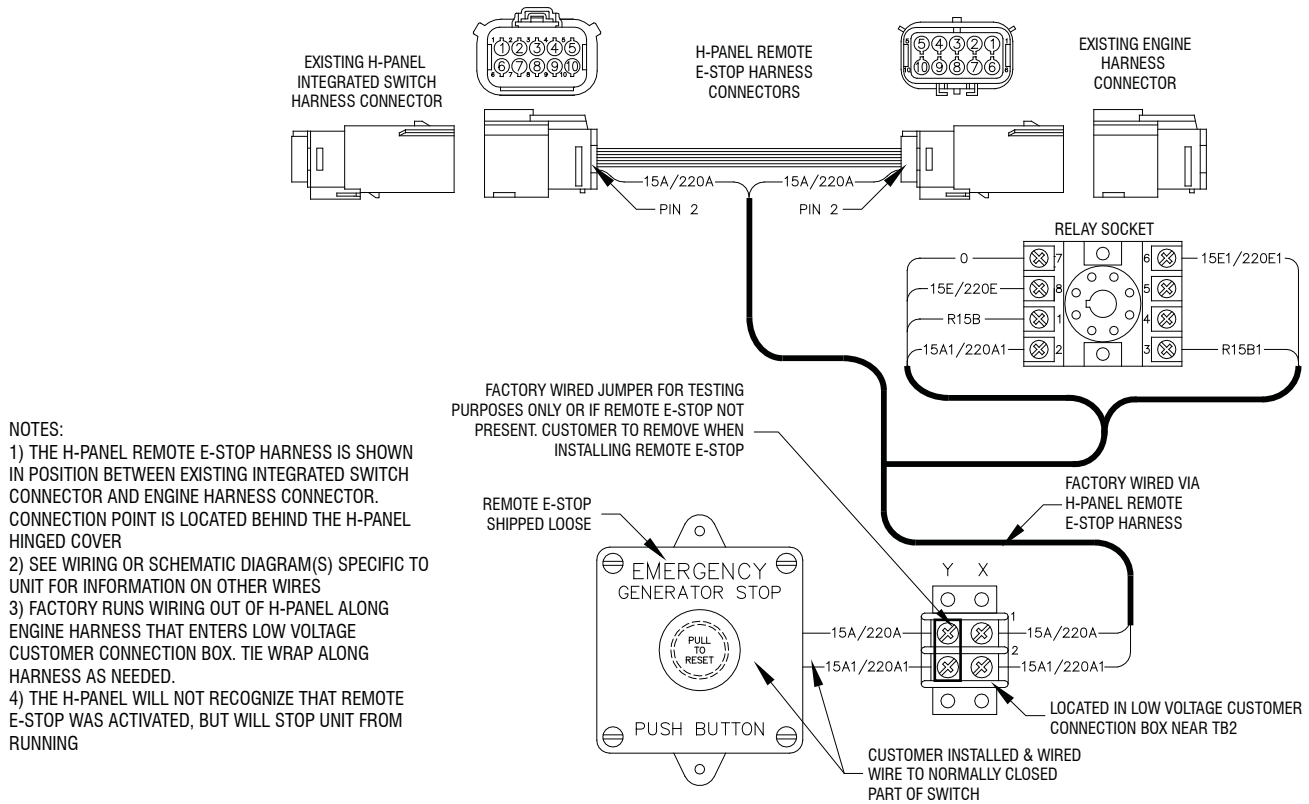


REMOTE EMERGENCY STOP SWITCH BREAK-GLASS, H-PANEL



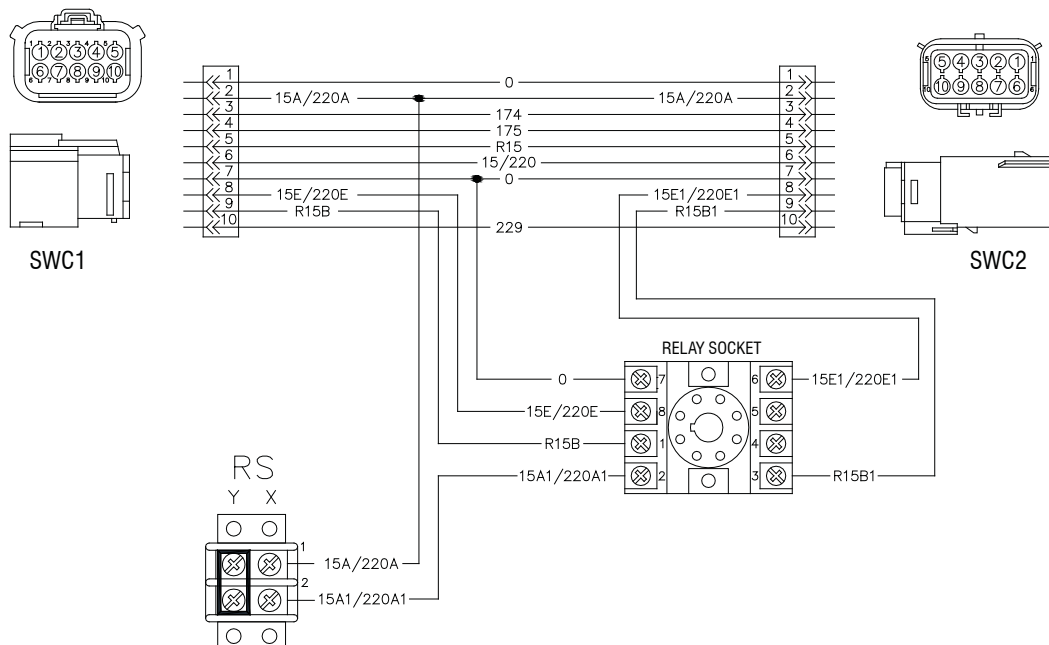
- MANUFACTURER: PILLA ELECTRICAL PRODUCTS, INC.
- MODEL ST120SN3RSL-GLS
- GENERAC PART NUMBER 061129D
- SURFACE MOUNT, NEMA 3R
- 2 REPLACEMENT GLASSES
- PAINTED STEEL ENCLOSURE

REMOTE EMERGENCY STOP SWITCH BREAK-GLASS, H-PANEL



NOTES:

- 1) THE H-PANEL REMOTE E-STOP HARNESS IS SHOWN IN POSITION BETWEEN EXISTING INTEGRATED SWITCH CONNECTOR AND ENGINE HARNESS CONNECTOR. CONNECTION POINT IS LOCATED BEHIND THE H-PANEL HINGED COVER
- 2) SEE WIRING OR SCHEMATIC DIAGRAM(S) SPECIFIC TO UNIT FOR INFORMATION ON OTHER WIRES
- 3) FACTORY RUNS WIRING OUT OF H-PANEL ALONG ENGINE HARNESS THAT ENTERS LOW VOLTAGE CUSTOMER CONNECTION BOX. TIE WRAP ALONG HARNESS AS NEEDED.
- 4) THE H-PANEL WILL NOT RECOGNIZE THAT REMOTE E-STOP WAS ACTIVATED, BUT WILL STOP UNIT FROM RUNNING



Notes:

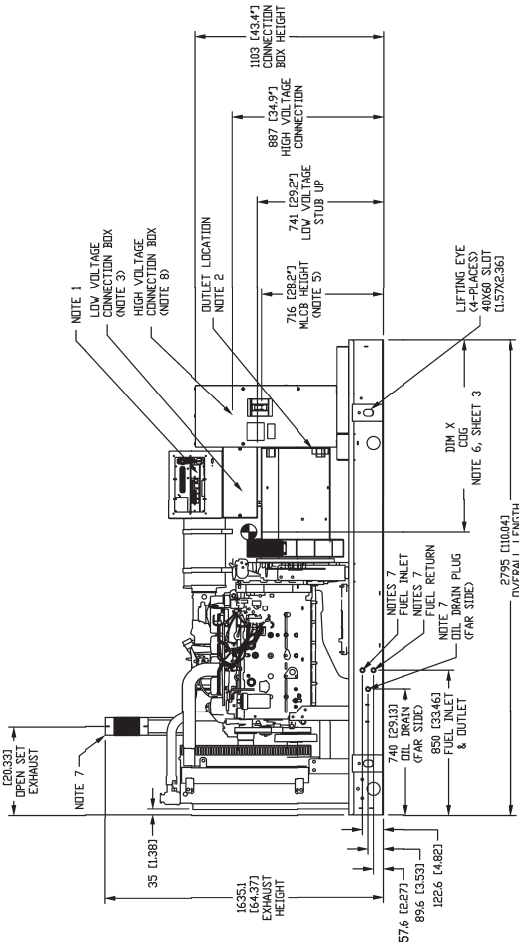
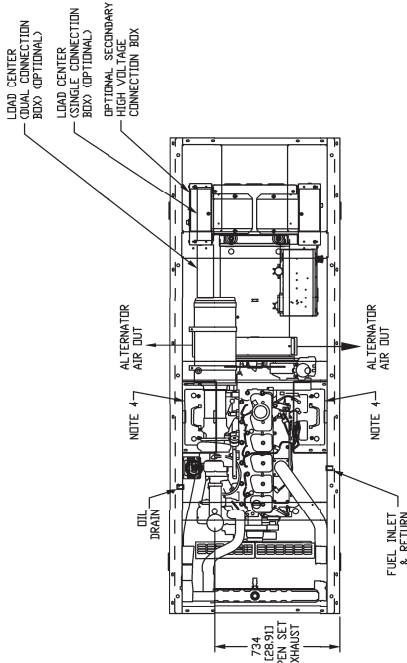
- 1. CONTROL PANEL, (OPTIONAL BATTERY CHARGER INSIDE).
- 2. BATTERY CABLES FOR BATTERY CHARGER PROVIDED IN THE LOW VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB-UP AREA).
- 3. VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB-UP AREA).
- 4. BATTERY (12 VOLT NEGATIVE GROUND SYSTEM).
- 5. BATTERY CABLES FOR BATTERY CHARGER PROVIDED IN THE LOW VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB-UP AREA).
- 6. DIMENSIONS MAY VARY DUE TO UNIT CONFIGURATION.
- 7. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.

- 8. ENGINE SERVICE CONNECTIONS:
 - INLET NATURAL GAS = N/A
 - INLET DIESEL = 1/2" NPT COUPLING
 - RETURN DIESEL = 1/2" NPT COUPLING
 - RADIATOR DRAIN = N/A
 - FLEX PIPE OUTLET = 4" ID.
 - EXHAUST OUTLET = N/A

***** SEE GENERATOR SIZING GUIDE FOR FUEL PIPE SIZING TO SUIT APPLICATION *****

- 9. AUXILIARY AC CONNECTION FOR UNIT OPTIONS ARE LOCATED IN HIGH VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB-UP AREA).
- 10. CONNECT TO THE UNIT'S AN INLET CENTER TO BE PROVIDED TO THE RIGHT OR LEFT SIDE OF GENERATOR. (MAY NOT APPLY TO ALL UNITS).
- 11. GENERATOR SET MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS NOT RE-CIRCULATED FROM THE EXHAUST SYSTEM INTO THE GENERATOR SET. BOTTOM OF GENERATOR MUST BE ENCLOSED TO PREVENT RE-CIRCULATION AND RE-CIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
- 12. EXHAUST SYSTEM MAXIMUM BACK PRESSURE = 20" H2O.
- 13. EXHAUST SYSTEM MUST BE INSTALLED TO PREVENT RE-CIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
- 14. CONNECT THE OPEN SET EXHAUST PER NEMA 37.
- 15. BOLTS OR STUDS USED TO MOUNT UNIT TO PAD OR BASE TANK, SHALL BE 5/8"-11 GRADE 5.
- 16. USE STANDARD SAE TORQUE SPECS. (FOR INSTALLATION OF FUEL TANK)
- 17. PAD REFER TO INSTALL DRAWING OF THE BASE TANK

ADDITIONAL NOTES: FOR WEIGHT AND CENTER OF GRAVITY DATA SEE NOTE 6, AND SHEET 3.



GENERAC

DIMENSIONS ARE IN MILLIMETERS (INCHES)

TITLE

OPEN SET
D6.7L, 60HZ: SD100, PD090
SD130, PD117

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ELECTRONICALLY APPROVED
INSIDE WINDCHILL

INSTALLATION DRAWING

DRAWING CREATED FROM PRO/ENGINEER
3D FILE. ECO MODIFICATION TO BE
APPLIED TO SOLID MODEL ONLY.

ISSUE DATE: 6/13/14

SIZE	CAGE NO	DWG NO	REV
B	N/A	0J4190	F

SCALE	WT-KG	SHEET
0.035		1 of 3

OPEN SET				
MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X DIM Y DIM Z	CENTER OF GRAVITY DIM X DIM Y DIM Z
SD100, PD090	240V, 1 Ø	1,529 kg (3,370 lbs)	1571 (62.3)	471 (18.5)
SD130, PD117	240V, 1 Ø	1,592 kg (3,513 lbs)	1521 (59.9)	467 (18.3)
SD150, PD135	240V, 1 Ø	1,666 kg (3,672 lbs)	1468 (57.8)	458 (18.0)
SD175, PD158	240V, 1 Ø 600 kVA UPSIZED	1,633 kg (3,600 lbs)	1636 (64.4)	595 (23.4)
SD180, PD160	208V, 240V, 480V	1,536 kg (3,386 lbs)	1602 (62.7)	612 (24.1)
SD190, PD167	208V, 240V, 480V	1,614 kg (3,557 lbs)	1509 (59.4)	606 (23.8)
SD195, PD170	208V, 240V, 480V	1,778 kg (3,920 lbs)	1599 (61.4)	598 (23.4)
SD200, PD173	208V, 240V, 480V	1,859 kg (4,100 lbs)	1576 (62.0)	595 (23.3)
SD200, PD173	208V, 240V, 480V	1,582 kg (3,483 lbs)	1576 (62.0)	471 (18.5)
SD150, PD135	208V, 240V, 480V	1,602 kg (3,533 lbs)	1505 (59.2)	607 (23.9)
SD175, PD158	208V, 240V, 480V	1,615 kg (3,561 lbs)	1647 (64.8)	603 (23.7)
SD175, PD158	208V, 240V, 480V	1,647 kg (3,633 lbs)	1631 (64.2)	601 (23.7)
SD190, PD167	208V, 240V, 480V	1,605 kg (3,538 lbs)	1561 (61.5)	598 (23.1)
SD190, PD167	208V, 240V, 480V	1,708 kg (3,765 lbs)	1513 (59.5)	593 (22.9)

STD ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X DIM Y DIM Z	CENTER OF GRAVITY DIM X DIM Y DIM Z
SD100, PD090	240V, 1 Ø	1,873 kg (4,128 lbs)	1647 (64.9)	682 (26.9)
SD130, PD117	240V, 1 Ø	1,937 kg (4,270 lbs)	1605 (63.2)	676 (26.5)
SD150, PD135	240V, 1 Ø	2,040 kg (4,500 lbs)	1520 (60.2)	667 (26.1)
SD175, PD158	240V, 1 Ø 600 kVA UPSIZED	2,040 kg (4,499 lbs)	1720 (68.1)	687 (27.0)
SD180, PD160	208V, 240V, 480V	1,880 kg (4,144 lbs)	1640 (64.4)	681 (26.8)
SD190, PD167	208V, 240V, 480V	1,998 kg (4,406 lbs)	1594 (62.3)	675 (26.5)
SD195, PD170	208V, 240V, 480V	2,185 kg (4,818 lbs)	1662 (65.4)	675 (26.5)
SD195, PD170	208V, 240V, 480V	2,045 kg (4,511 lbs)	1728 (68.0)	686 (27.0)
SD200, PD173	208V, 240V, 480V	2,282 kg (5,029 lbs)	1602 (63.2)	684 (26.9)
SD200, PD173	208V, 240V, 480V	1,950 kg (4,298 lbs)	1602 (63.2)	454 (17.9)
SD150, PD135	208V, 240V, 480V	2,022 kg (4,458 lbs)	1728 (68.1)	689 (27.1)
SD175, PD158	208V, 240V, 480V	2,054 kg (4,529 lbs)	1725 (67.9)	686 (27.0)
SD175, PD158	208V, 240V, 480V	2,088 kg (4,602 lbs)	1664 (65.5)	675 (26.5)
SD190, PD167	208V, 240V, 480V	2,111 kg (4,653 lbs)	1620 (63.8)	666 (26.2)

L1A ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X DIM Y DIM Z	CENTER OF GRAVITY DIM X DIM Y DIM Z
SD100, PD090	240V, 1 Ø	1,990 kg (4,384 lbs)	1577 (62.1)	699 (27.3)
SD130, PD117	240V, 1 Ø	2,044 kg (4,509 lbs)	1540 (60.6)	692 (27.3)
SD150, PD135	240V, 1 Ø	2,135 kg (4,707 lbs)	1485 (58.5)	683 (26.9)
SD175, PD158	240V, 1 Ø 600 kVA UPSIZED	2,135 kg (4,707 lbs)	1641 (64.4)	707 (27.8)
SD180, PD160	208V, 240V, 480V	1,987 kg (4,380 lbs)	1571 (61.8)	698 (27.3)
SD190, PD167	208V, 240V, 480V	2,065 kg (4,552 lbs)	1531 (60.1)	695 (27.4)
SD195, PD170	208V, 240V, 480V	2,315 kg (5,104 lbs)	1641 (64.4)	707 (27.8)
SD195, PD170	208V, 240V, 480V	2,176 kg (4,798 lbs)	1581 (62.2)	701 (27.5)
SD200, PD173	208V, 240V, 480V	2,462 kg (5,425 lbs)	1531 (60.1)	695 (27.4)
SD200, PD173	208V, 240V, 480V	2,184 kg (4,815 lbs)	1531 (60.1)	697 (27.4)
SD150, PD135	208V, 240V, 480V	2,138 kg (4,713 lbs)	1551 (61.2)	697 (27.4)
SD175, PD158	208V, 240V, 480V	2,241 kg (4,940 lbs)	1554 (61.2)	698 (27.1)

L2A ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X DIM Y DIM Z	CENTER OF GRAVITY DIM X DIM Y DIM Z
SD100, PD090	240V, 1 Ø	2,034 kg (4,483 lbs)	1682 (66.2)	782 (30.8)
SD130, PD117	240V, 1 Ø	2,098 kg (4,624 lbs)	1642 (64.6)	772 (30.4)
SD150, PD135	240V, 1 Ø	2,190 kg (4,829 lbs)	1754 (69.4)	831 (32.7)
SD175, PD158	240V, 1 Ø 600 kVA UPSIZED	2,257 kg (4,978 lbs)	1739 (68.5)	851 (33.2)
SD180, PD160	208V, 240V, 480V	2,034 kg (4,483 lbs)	1682 (66.2)	782 (30.8)
SD190, PD167	208V, 240V, 480V	2,119 kg (4,671 lbs)	1632 (64.3)	769 (30.3)
SD195, PD170	208V, 240V, 480V	2,402 kg (5,296 lbs)	1677 (66.0)	802 (31.6)
SD195, PD170	208V, 240V, 480V	2,263 kg (4,989 lbs)	1737 (68.4)	820 (32.3)
SD200, PD173	208V, 240V, 480V	2,607 kg (5,746 lbs)	1687 (66.4)	794 (30.9)
SD200, PD173	208V, 240V, 480V	2,107 kg (4,644 lbs)	1638 (64.5)	771 (30.3)
SD150, PD135	208V, 240V, 480V	2,235 kg (4,923 lbs)	1746 (68.9)	824 (32.4)
SD175, PD158	208V, 240V, 480V	2,265 kg (5,000 lbs)	1691 (66.4)	813 (32.0)
SD190, PD167	208V, 240V, 480V	2,328 kg (5,132 lbs)	1651 (65.0)	799 (31.4)

DRAWING CREATED FROM PRO/ENGINEER
3D FILE. ECO MODIFICATION TO BE
APPLIED TO SOLID MODEL ONLY.

INSTALLATION DRAWING

NOTE:
CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO OPTIONS

STD ENCLOSURE, ALUMINUM

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X DIM Y DIM Z	CENTER OF GRAVITY DIM X DIM Y DIM Z
SD100, PD090	240V, 1 Ø	1,700 kg (3,748 lbs)	1633 (64.3)	650 (25.6)
SD130, PD117	240V, 1 Ø	1,745 kg (3,850 lbs)	1582 (62.4)	644 (25.4)
SD150, PD135	240V, 1 Ø	1,850 kg (4,078 lbs)	1505 (59.2)	635 (25.0)
SD175, PD158	240V, 1 Ø 600 kVA UPSIZED	1,832 kg (4,039 lbs)	1703 (67.1)	648 (25.5)
SD180, PD160	208V, 240V, 480V	1,707 kg (3,763 lbs)	1625 (64.0)	650 (25.6)
SD190, PD167	208V, 240V, 480V	1,785 kg (3,935 lbs)	1575 (62.0)	642 (25.3)
SD195, PD170	208V, 240V, 480V	1,977 kg (4,359 lbs)	1630 (64.2)	638 (25.1)
SD195, PD170	208V, 240V, 480V	1,838 kg (4,059 lbs)	1701 (67.0)	648 (25.5)
SD200, PD173	208V, 240V, 480V	2,053 kg (4,529 lbs)	1602 (63.2)	634 (25.1)
SD200, PD173	208V, 240V, 480V	1,844 kg (4,060 lbs)	1715 (67.4)	650 (25.6)
SD150, PD135	208V, 240V, 480V	1,846 kg (4,070 lbs)	1698 (66.8)	647 (25.5)
SD175, PD158	208V, 240V, 480V	1,892 kg (4,172 lbs)	1634 (64.3)	636 (25.0)
SD190, PD167	208V, 240V, 480V	1,957 kg (4,310 lbs)	1587 (62.5)	628 (24.7)

L1A ENCLOSURE, ALUMINUM

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X DIM Y DIM Z	CENTER OF GRAVITY DIM X DIM Y DIM Z
SD100, PD090	240V, 1 Ø	1,746 kg (3,849 lbs)	1599 (62.9)	660 (26.0)
SD130, PD117	240V, 1 Ø	1,800 kg (3,969 lbs)	1554 (61.2)	654 (25.7)
SD150, PD135	240V, 1 Ø	1,900 kg (4,190 lbs)	1461 (58.2)	646 (25.4)
SD175, PD158	240V, 1 Ø 600 kVA UPSIZED	1,733 kg (3,815 lbs)	1591 (62.4)	659 (25.9)
SD180, PD160	208V, 240V, 480V	1,631 kg (3,593 lbs)	1544 (60.8)	632 (25.7)
SD190, PD167	208V, 240V, 480V	2,033 kg (4,482 lbs)	1593 (62.7)	649 (25.6)
SD195, PD170	208V, 240V, 480V	1,894 kg (4,176 lbs)	1659 (65.3)	660 (26.0)
SD195, PD170	208V, 240V, 480V	1,759 kg (3,882 lbs)	1603 (63.1)	662 (26.0)
SD200, PD173	208V, 240V, 480V	1,937 kg (4,270 lbs)	1603 (63.1)	662 (26.0)
SD200, PD173	208V, 240V, 480V	1,802 kg (3,972 lbs)	1656 (65.2)	659 (25.9)
SD150, PD135	208V, 240V, 480V	1,858 kg (4,096 lbs)	1599 (62.9)	648 (25.5)
SD175, PD158	208V, 240V, 480V	1,961 kg (4,323 lbs)	1555 (61.2)	640 (25.2)

L2A ENCLOSURE, ALUMINUM

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X DIM Y DIM Z	CENTER OF GRAVITY DIM X DIM Y DIM Z
SD100, PD090	240V, 1 Ø	1,769 kg (3,900 lbs)	1599 (62.9)	660 (26.0)
SD130, PD117	240V, 1 Ø	1,833 kg (4,041 lbs)	1554 (61.2)	654 (25.7)
SD150, PD135	240V, 1 Ø	1,958 kg (4,317 lbs)	1469 (58.5)	646 (25.4)
SD175, PD158	240V, 1 Ø 600 kVA UPSIZED	1,785 kg (3,935 lbs)	1593 (62.7)	649 (25.6)
SD180, PD160	208V, 240V, 480V	1,631 kg (3,593 lbs)	1544 (60.8)	632 (25.7)
SD190, PD167	208V, 240V, 480V	2,070 kg (4,565 lbs)	1593 (62.7)	649 (25.6)
SD195, PD170	208V, 240V, 480V	1,931 kg (4,258 lbs)	1659 (65.3)	660 (26.0)
SD195, PD170	208V, 240V, 480V	1,792 kg (3,963 lbs)	1603 (63.1)	662 (26.0)
SD200, PD173	208V, 240V, 480V	1,942 kg (4,281 lbs)	1549 (61.0)	633 (25.7)
SD200, PD173	208V, 240V, 480V	1,807 kg (3,985 lbs)	1603 (63.1)	662 (26.0)
SD150, PD135	208V, 240V, 480V	1,895 kg (4,178 lbs)	1599 (62.9)	648 (25.5)
SD175, PD158	208V, 240V, 480V	1,998 kg (4,405 lbs)	1555 (61.2)	640 (25.2)



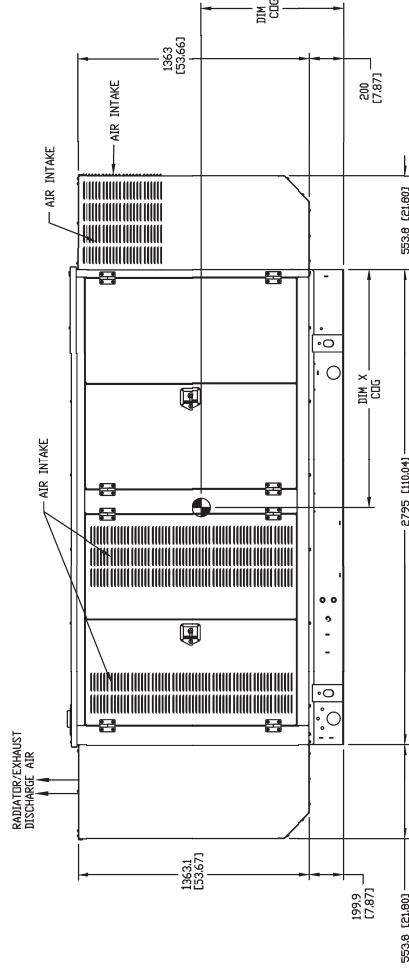
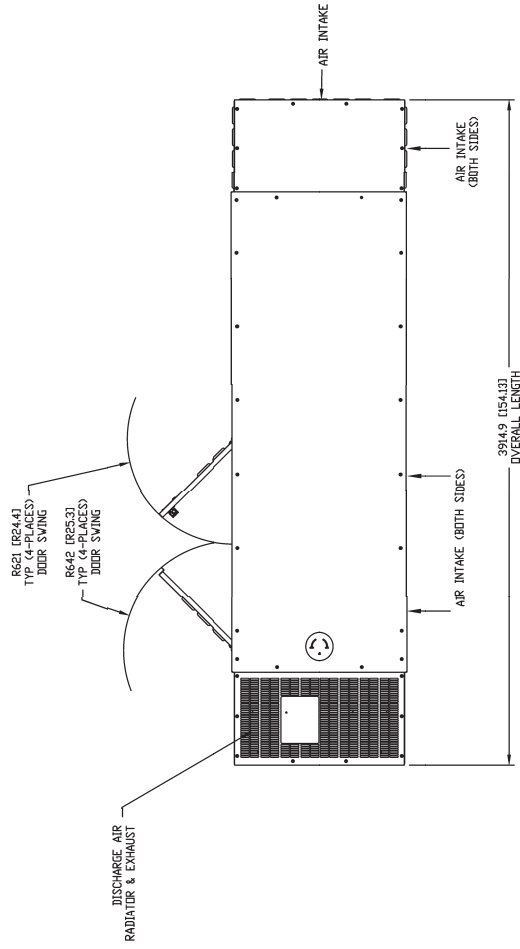
TITLE
WEIGHT & CENTER OF GRAVITY
D6.7L, 60Hz: SD100, PD090
SD130, PD117

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ISSUE DATE:	6/13/14	REV	F
SIZE	B	CAGE NO	0J4190
SCALE	0.035	WT-KG	3 of 3

ELECTRONICALLY APPROVED
INSIDE WINDOW

FOR ALL STUB-UP, WEIGHT, AND COG DETAILS, SEE
CORRESPONDING OPEN SET DRAWING PER UNIT CONFIGURATION.



DIMENSIONS ARE IN MILLIMETERS [INCHES]

GENERAC.

TITLE

L1A ENCLOSURE
D6.7L, 60HZ: SD100, PD090
SD130, PD117

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ELECTRONICALLY APPROVED
INSIDE WINDCHILL

ISSUE DATE:	6/13/14
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SIZE	CAGE NO	DWG NO	REV
B	N/A	0J4190B	F

SCALE	0.035	WT-KG	SHEET 1 of 1
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INSTALLATION DRAWING

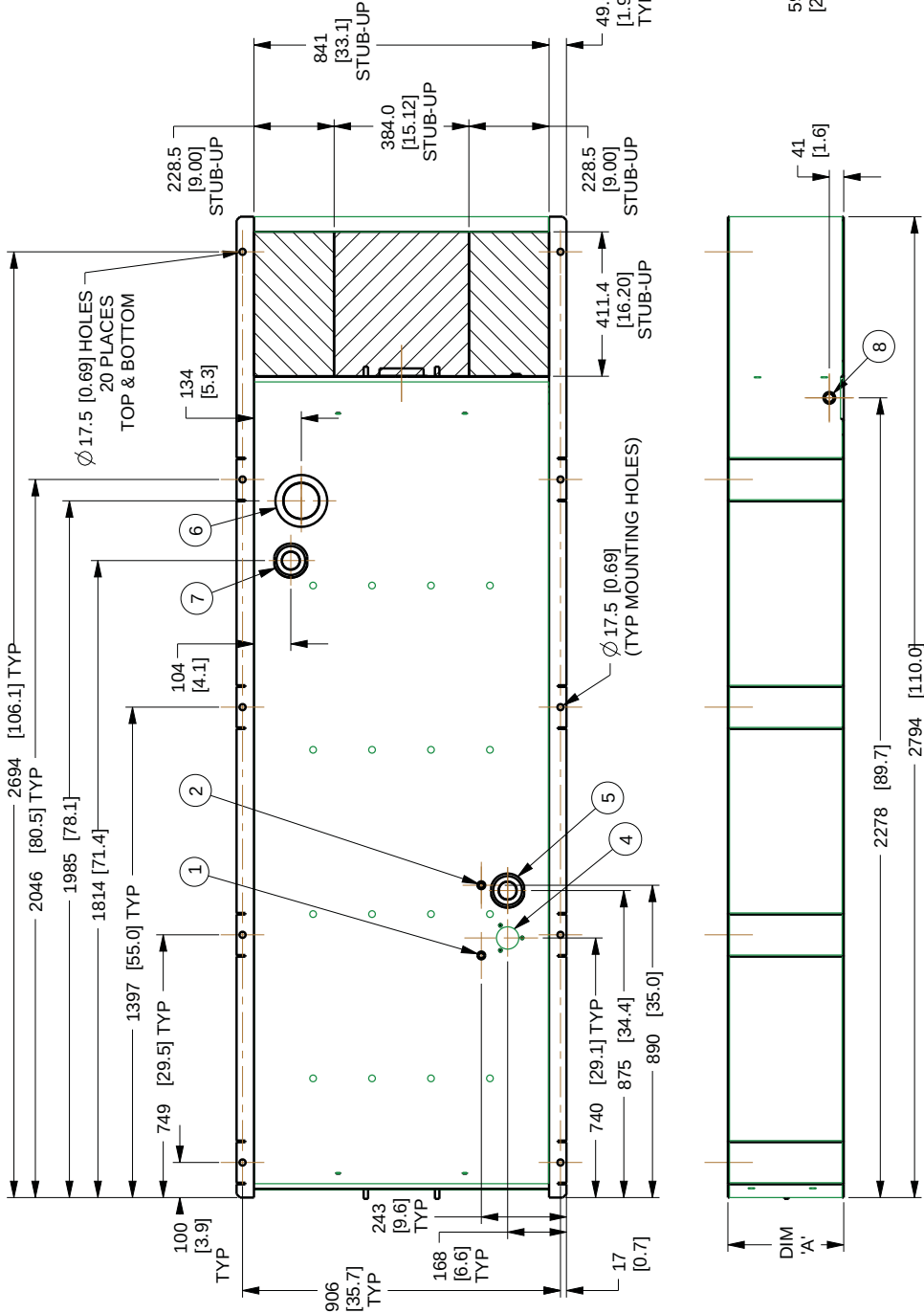
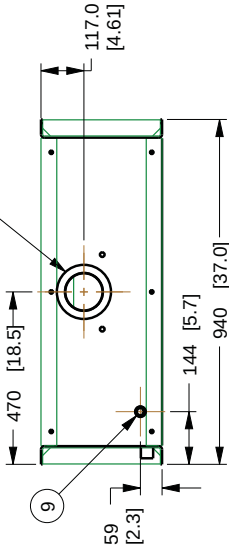
DRAWING CREATED FROM PRO/ENGINEER
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I/N	TANK FITTING	FUNCTION
1	3/8" NPT COUPLING	FUEL SUPPLY
2	3/8" NPT COUPLING	FUEL RETURN
3	4" NPT WELD FLANGE	EMERGENCY VENT (OUTER)
4		FUEL LEVEL
5	2" NPT WELD FLANGE	FUEL FILL
6	4" NPT WELD FLANGE	EMERGENCY VENT (INNER)
7	2" NPT WELD FLANGE	VENT
8	3/4" NPT COUPLING	DRAIN
9	1/2" NPT COUPLING	LEAK DETECTOR

CAPACITY SHOWN: LITER [GALLONS]
WEIGHT SHOWN: KILOGRAMS [POUNDS]
LENGTH SHOWN: MM [INCH]
UL #142 LISTED
ULC-S601 LISTED

NOTE:
1 MOUNTING BOLTS OR STUDS FOR MOUNTING BASE TANK
TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5.
(USE STANDARD SAE TORQUE SPECS)

- LOW VOLTAGE STUB-UP
- HIGH VOLTAGE STUB-UP



TANK P/N	0J18460ST03	0J18500ST03
DIM 'A'	330 [13]	940 [37]
TOTAL TANK CAPACITY	360 [95]	1344 [355]
USABLE TANK CAPACITY	341 [90]	1325 [350]
DRY WEIGHT [EST]	322 [709]	628 [1384]

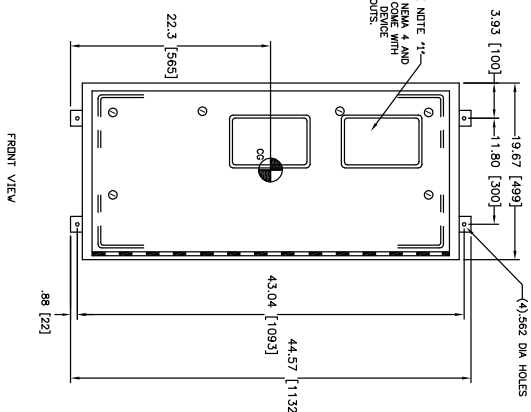
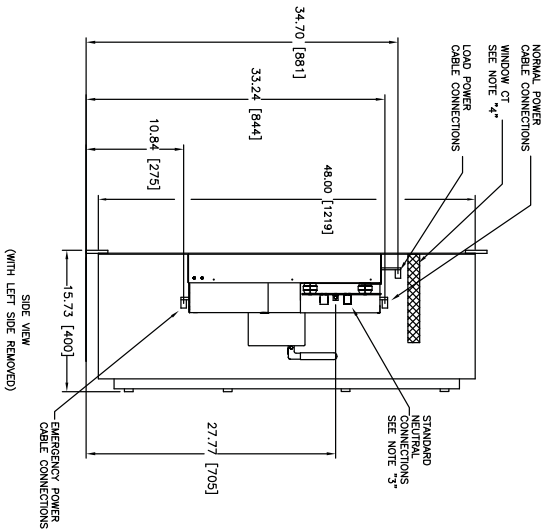
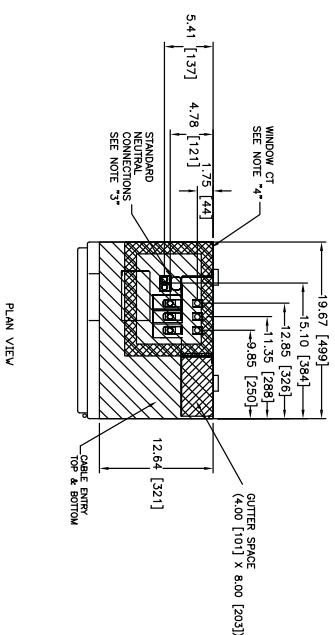
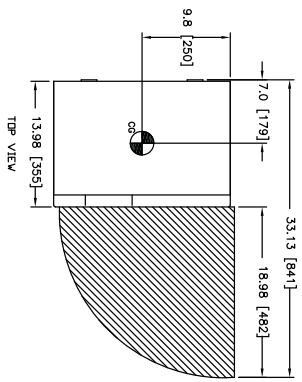
DRAWING CREATED FROM PRO/ENGINEER
3D FILE. ECO MODIFICATION TO BE
APPLIED TO SOLID MODEL ONLY.



TITLE								INSTALL BASE TANK D6.7L C-GRP									
MATERIAL				SEE ABOVE				GENERAC SPECIFICATION				PAINT SURFACE FINISH					
								ISSUE DATE: 02/07/11									
SIZE		B		CAGE NO		N/A		DWG NO		0J4213				REV		E	
SCALE		0.075		WT-KG		329.145		SHEET		1 of 1							

INSTALLATION DRAWING

67B8226



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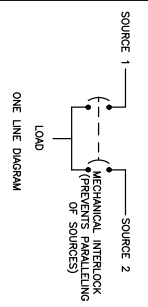
GENRAC POWER SYSTEMS
Waukegan, WI 53187

INSTALLATION DRAWING

AUTOMATIC TRANSFER SWITCH		GENERAC POWER SYSTEMS Waukesha P.O. BOX 8 WAUKESHA, WIS. 53187			
WALL MOUNT - SER		FILE NAME	67B8226.DWG	SIZE	B
KD FRAME, 225-300A 3POLE		SCALE	NTS	FIRST USE	
NEMA 4X		DWG NO.	67B8226		
				REV	-

Seismic Mechanical Mounting Requirements

A For wall mount seismic application use (4) 1/2-13UNC grade 5 or better hex head bolts and washers. These bolts are to be torqued to 75 ft.lbs. (102 Nm).



NOTES:

- Automatic, Non-automatic, Manual, and Service Entrance controls provided based on customer order information.

- Dimensions: inches [millimeters].
- For switched neutral applications, connect to terminals marked "NN", "EN", and "LN". Neutral assembly will not be provided.

- If a Ground Fault Sensing System was ordered, a window CT and a GFR relay are provided. Installer to route all load phase and neutral conductors through window CT with "H1" and "X1" markings facing the bus terminals.

- Center of gravity.
- Nema 3R and 12 have three latches equally spaced on handle side of enclosure.

- This drawing pertains to the switch types listed in the following table:

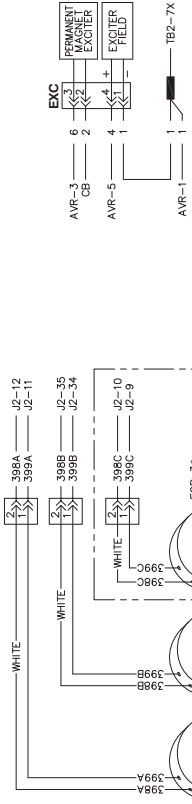
APPROX. SHIPPING WT. Lbs. (kg)	CATALOG NUMBER	STYLE NUMBER
320 (145)	ATM	N/A
320 (145)	ATM	N/A
320 (145)	NTVS	N/A

GROUP G

LEGEND

- [illegible]

COMPONENTS LOCATED IN ALTERNATOR CONNECTION BOX

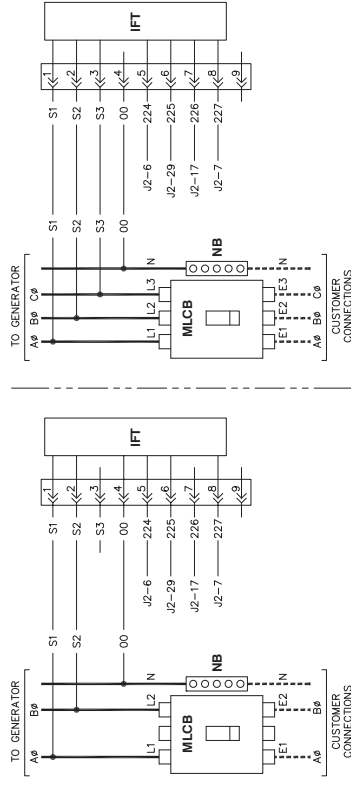


SEE DRAWING 0H9846 FOR CT WIRING.

COMPONENTS LOCATED IN HIGH VOLTAGE CUSTOMER CONNECTION MODULE

**CONNECTIONS
FOR 1Ø UNIT**

**CONNECTIONS
FOR 3Ø UNIT**



PAGE 1 OF 6

REVISION: H-9136-D

DATE: 6/8/11

----- WIPING - DIAGRAM -----

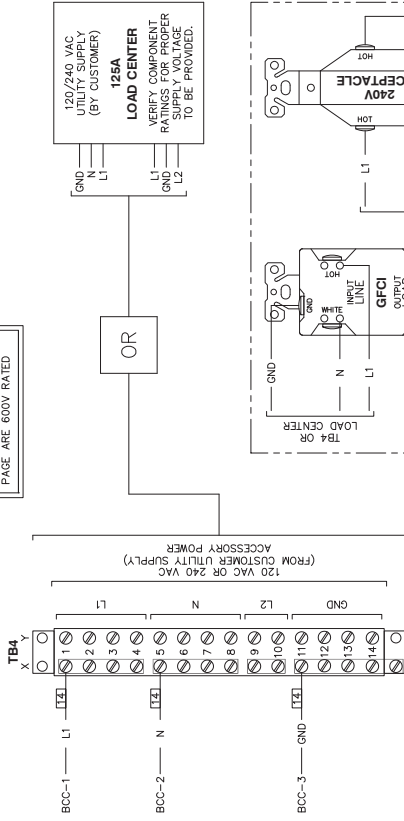
D4.5L/D6.7L G17 12V

DRAWING #: 0H9862

GROUP G

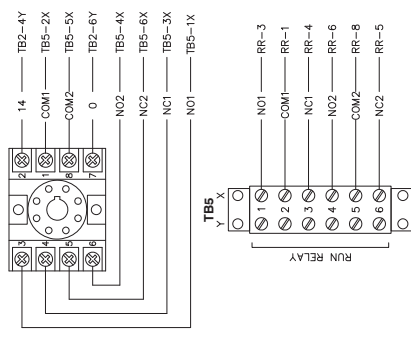
COMPONENTS LOCATED IN HIGH VOLTAGE CUSTOMER CONNECTION MODULE

NOTE: ALL WIRES ON THIS PAGE ARE 600V RATED



NOTE:
FOR FIELD WIRING TO CUSTOMER CONNECTIONS
(TERMINAL STRIP)
MAXIMUM WIRE SIZE: #10 AWG
RECOMMENDED TIGHTENING TORQUE: 14 LB-IN

RUN RELAY



NOTE:
FOR FIELD WIRING TO CUSTOMER CONNECTIONS
(TERMINAL STRIPS AND RELAY BOARD)

COMMON OPTIONS

PAGE 2 OF 8

----- WIPING - DIAGRAM

D4.5L/D6.7L G17 12V

DRAWING #: 0H9862

REVISION: H-9136-D

DATE: 6/8/11

----- WIPING - DIAGRAM -----

D4.5L/D6.7L G17 12V

DRAWING #: 0H9862

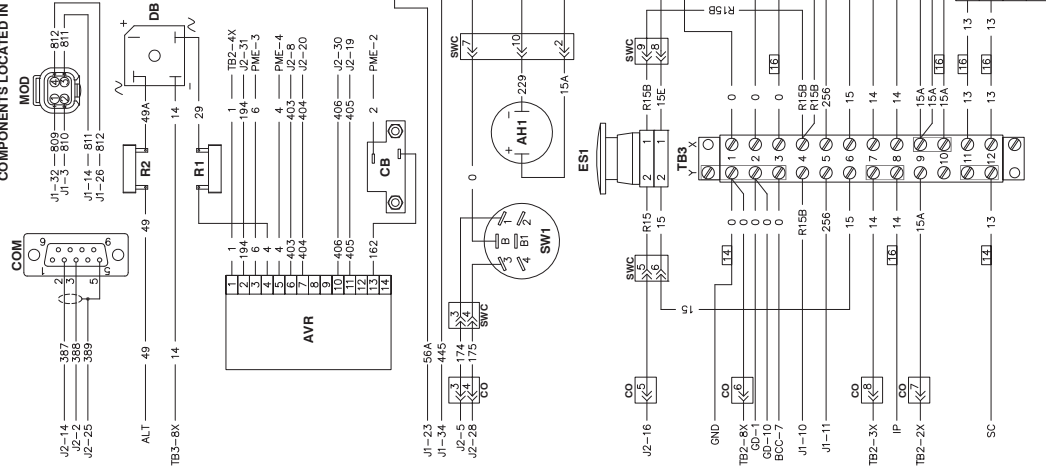
PAGE 1 OF 6

REVISION: H-9136-D

DATE: 6/8/11

GROUP G

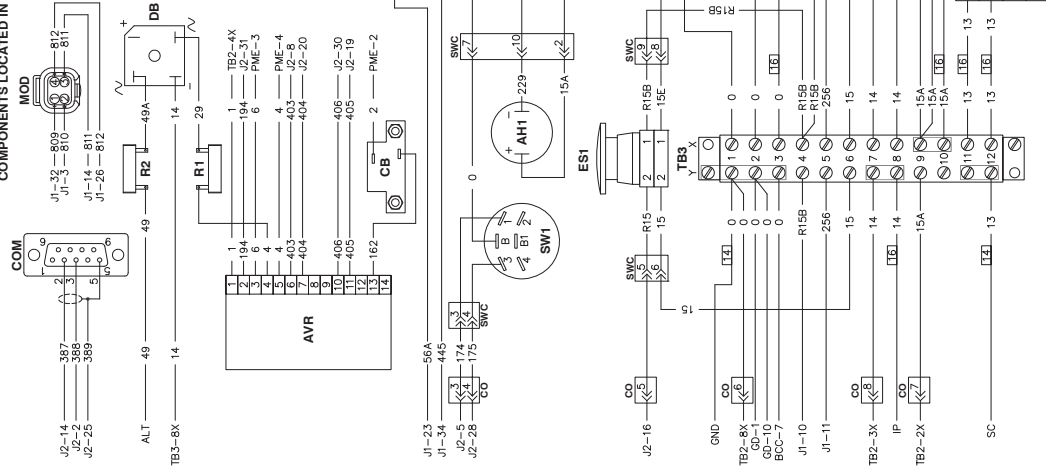
COMPONENTS LOCATED IN CONTROL PANEL



NOTE: ENSURE LINE OF DIODE (CATHODE) IS CLOSEST TO TB2-4X FOR CORRECT POLARIZATION.

GROUP G

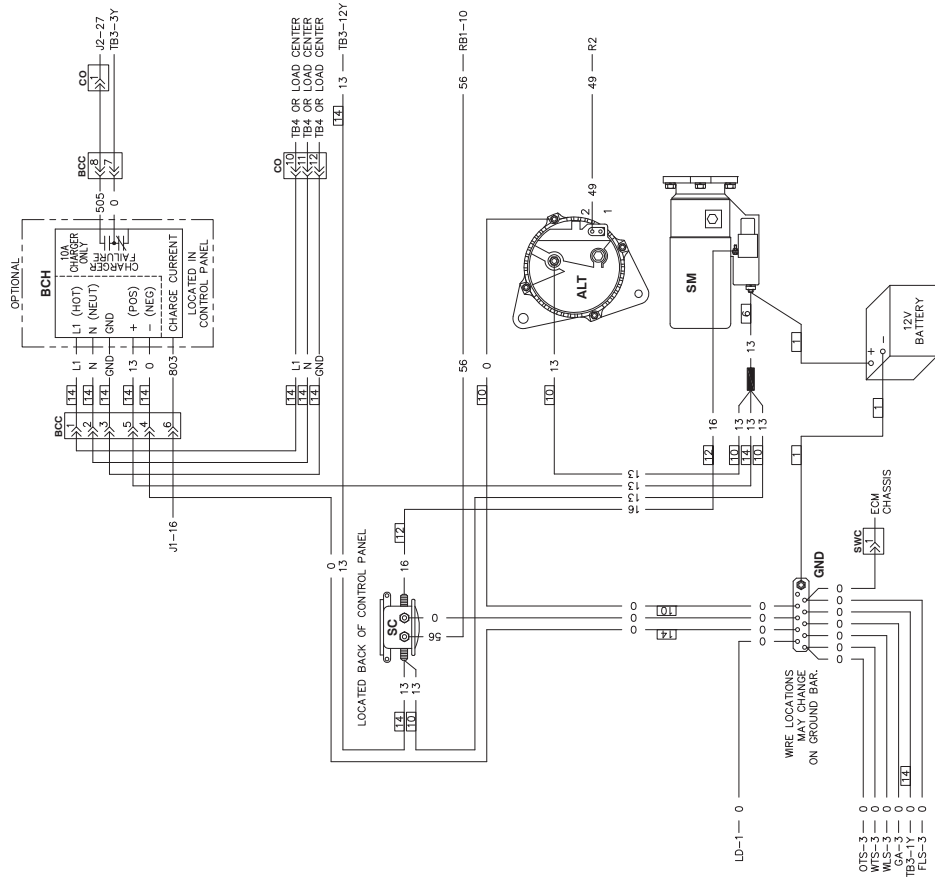
COMPONENTS LOCATED IN CONTROL PANEL



NOTE: ENSURE LINE OF DIODE (CATHODE) IS CLOSEST TO TB2-4X FOR CORRECT POLARIZATION.

GROUP G

COMPONENTS LOCATED ON ENGINE



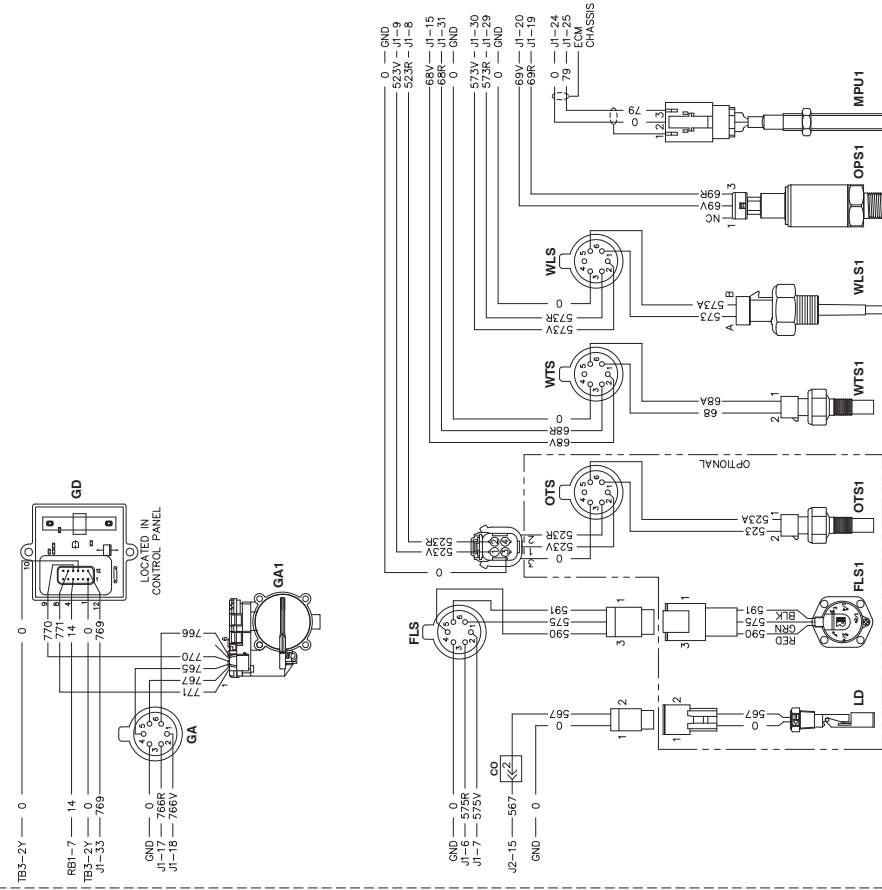
PAGE 5 OF 6

REVISION: H-9136-D
DATE: 6/8/11

WIRING - DIAGRAM
D4-5L/D6-7L G17 12V
DRAWING #: 0H9862

GROUP G

COMPONENTS LOCATED ON ENGINE

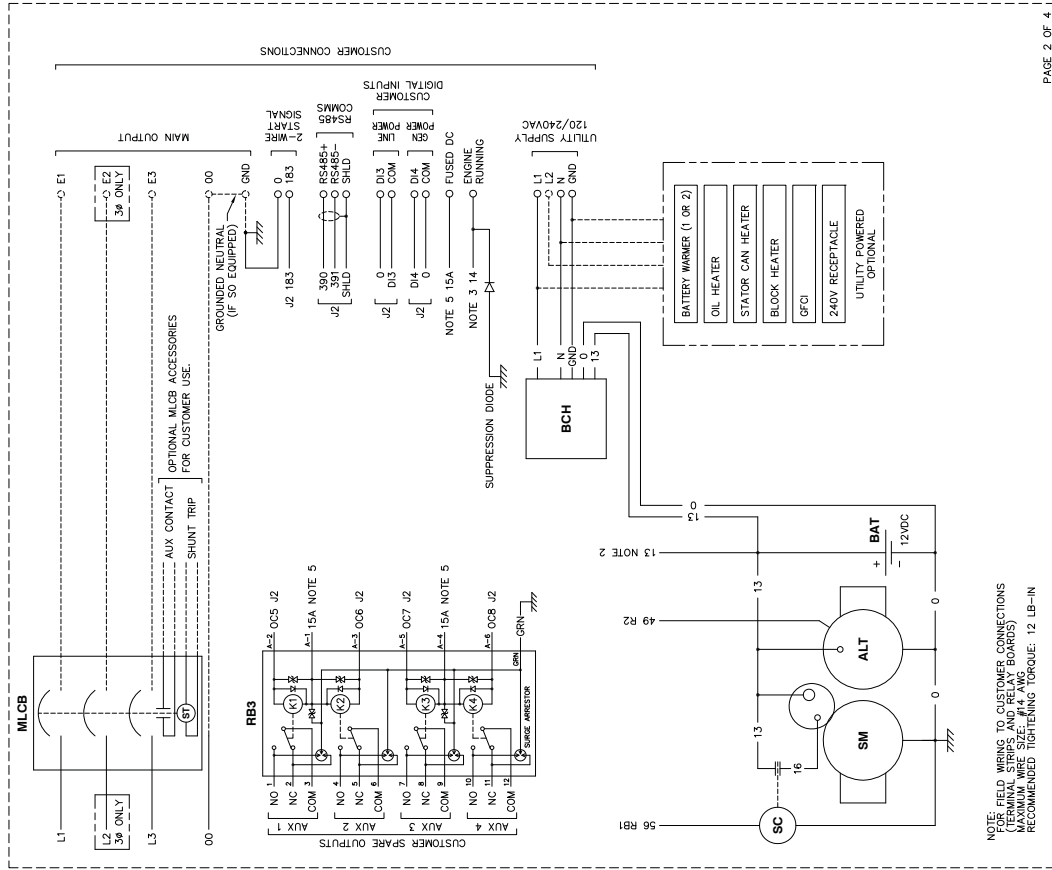


PAGE 6 OF 6

REVISION: H-9136-D
DATE: 6/8/11

WIRING - DIAGRAM
D4-5L/D6-7L G17 12V
DRAWING #: 0H9862

GROUP G



NOTE:
FOR FIELD WIRING TO CUSTOMER CONNECTIONS
(TERMINAL STRIPS AND RELAY BOARDS)
MAXIMUM WIRE SIZE: #14 AWG
RECOMMENDED TIGHTENING TORQUE: 12 LB-IN

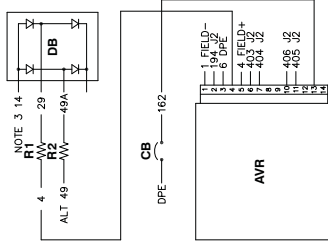
REVISION: -A-
DATE: 7/12/10

D4.5L/D6.7L G17 12V
DRAWING #: 0H9863

REVISION: -A-
DATE: 7/12/10

D4.5L/D6.7L G17 12V
DRAWING #: 0H9863

GROUP G



- | LEGEND | |
|--------|--------------------------|
| DO | NEUTRAL |
| AH1 | ALARM HORN |
| AH2 | DC CHARGE ALTERNATOR |
| BA | BATTERY CHARGE REGULATOR |
| BAT | BATTERY |
| BOH | BATTERY CHARGER |
| CB | BATTERY CABLE |
| CB1 | CIRCUIT BREAKER |
| CC | CURRENT TRANSFORMER |
| CH | CHARGE CONNECTOR |
| DB | DIODE BRIDGE |
| DPE | DIODE |
| EMT | EMERGENCY STOP SWITCH |
| EX | EXCITER |
| IP | INJECTION PUMP |
| JL | LEAK DETECTOR |
| LD | LEAK DETECTOR |
| MD | MODULE |
| MPU | MODULE |
| OPSI | OIL PRESSURE SENDER |
| OS | OIL TEMPERATURE SENDER |
| OT | OIL TEMPERATURE SENDER |
| PM | PERMANENT MAGNET EXCITER |
| R | RESISTOR |
| RB | RELAY BOARD |
| SC | STARTER CONTACTOR |
| SM | STARTER MOTOR |
| WLS | WATER LEVEL SENDER |
| WTS | WATER TEMPERATURE SENDER |

GD CONNECTOR			TO	FUNCTION
PIN	WIRE			
1	0		GND	NOTE 1
4	14		FBI-7	NOTE 3
8	771		GA1-1	THROTTLE DRIVE LO
9	770		GA1-4	THROTTLE DRIVE HI
10	0		NOTE 1	NOTE 1
12	769		H-13	THROTTLE DIA1

J2

J1	WIRE	TO	FUNCTION
3	810	MOD-2	WORM SIGNAL RETURN
4	811	MOD-2	WORM SIGNAL
5	5750	FLS-1	FUEL LEVEL +
6	5751	FLS-1	FUEL LEVEL -
8	523R	OTS-2	OT TEMPERATURE RIN
9	523L	OTS-2	OT TEMPERATURE LIN
10	R148	REIA-2/ALSI	OVERSPEED/ALCHDS
11	256	WLS-1	WORM DATA
12	0	0	WORM DATA CARRIER DETECT
13	812	MOD-3	COOLANT TEMP +
14	813	MOD-3	COOLANT TEMP -
16	803	BCH	BAT CHARGER CURRENT
17	5752	FLS-1	FUEL LEVEL +
18	7463	GA-1	THROTTLE POS +
19	69R	OS-1-3	OT PRESS RIN
20	69L	OS-1-3	OT PRESS LIN
21	55A	MPU-2	STARTER RELAY
22	55B	MPU-2	STARTER RELAY
24	0	MPU-2	MPU1 SIGNAL (2)
25	812	MOD-3	WORM DATA
26	813	MOD-3	WORM DATA
29	5736R	WLS-2	COOLANT LVL RIN
30	5737	WLS-2	COOLANT LVL LIN
32	800	MOD-1	WORM 12V POWER
33	809	MOD-1	WORM 12V POWER
34	769	50-12	THROTTLE PWM
35	148	REIA-2	NOTE 1

PIN	WIRE	TO	FUNCTION
1	CU5N CON	SPARE IN	SPARE IN
2	3B8	RS322 IN (GEN SW)	RS322 IN (GEN SW)
3	D13	CU5N CON	SPARE IN 3/4 IN PWR
4	153	CU5N CON	RELOC START
5	224	1P1	V SENSE GEN A PH
6	224	1P1	V SENSE GEN A PH
7	227	1P1-B	V SENSE GEN B
8	399C	C13	GEN C PH CURRENT +
9	399D	C13	GEN C PH CURRENT -
10	399E	C13	GEN C PH CURRENT +
11	399F	C13	GEN C PH CURRENT -
12	399A	C13	GEN A PH CURRENT +
13	399B	C13	GEN A PH CURRENT -
14	399C	CU5N CON	RS485+ (OVER SW)
15	567	LD	LEAK DETECT (SW)
16	R15	ESI	EMERGENCY STOP
17	R15	ESI	EMERGENCY STOP
18	405	AVR-1	AVR GROUND
19	405	AVR-1	AVR GROUND
20	404	AVR-7	AVR GATE TRIGGER A
21	404	AVR-7	AVR GATE TRIGGER A
22	O6B	REBA-3	SPARE OUTPUT 2
23	O6B	REBA-3	SPARE OUTPUT 2
24	O6C	REBA-2	SPARE OUTPUT 1 (GEN SW)
25	389	CON-5	RS322 CON (GEN SW)
26	414	CU5N CON	SPARE IN 4/5 IN PWR
27	195	SW1	MANUAL START
28	195	SW1	MANUAL START
29	225	V SENSE GEN B PH	V SENSE GEN B PH
30	194	AVR-7	AVR +5VDC CROSSING 7P
31	194	AVR-7	AVR +5VDC CROSSING 7P
32	O6C	REBA-5	SPARE OUTPUT 3
33	O6C	REBA-5	SPARE OUTPUT 3
34	399B	C12	GEN B PH CURRENT +
35	399C	C12	GEN B PH CURRENT -
36	399D	C12	GEN B PH CURRENT +
37	399E	C12	GEN B PH CURRENT -

NOTES:

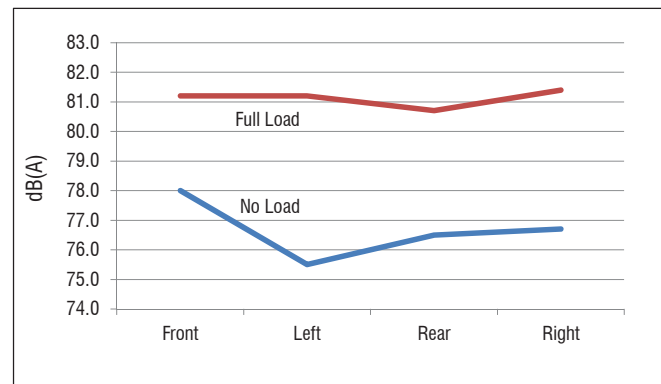
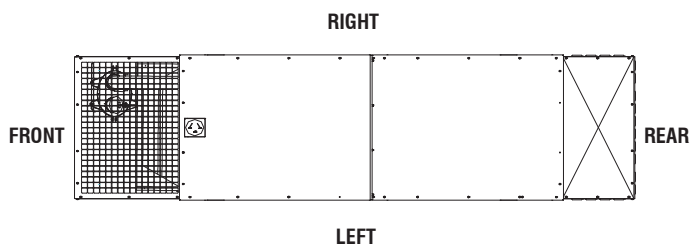
- 1) WIRE # 13 IS CHASSIS GROUND (BATTERY-). UNLESS NOTED OTHERWISE.
- 2) WIRE # 13 IS UNFUSED +12VDC (BATTERY+).
- 3) WIRE # 14 IS FUSED +12VDC WHEN GENERATOR IS CRANKING OR RUNNING.
- 4) WIRE # 15 IS FUSED +12VDC WHEN E-STOP IS NOT ACTIVATED.
- 5) WIRE # 15A IS FUSED +12VDC FOR GENERAL USE.
- 6) WIRE # 15B IS FUSED +12VDC FOR THE ENGINE CONTROL MODULE.



LEVEL 1 ACOUSTIC ENCLOSURE SD130 6.7L FPT

60Hz NO-LOAD DATA, dB(A)										DISTANCE: 7 METERS
MICROPHONE LOCATION	1/1 OCTAVE BAND CENTER FREQUENCY (Hz)									
	31.5	63	125	250	500	1000	2000	4000	8000	dB(A)
FRONT	35.9	51.4	63.0	69.1	73.6	73.2	67.9	64.4	56.2	78.0
LEFT	29.7	51.9	64.9	68.2	71.5	67.7	65.0	62.9	55.1	75.5
REAR	32.2	54.7	66.0	70.5	72.9	68.0	62.6	60.5	52.0	76.5
RIGHT	30.4	52.8	65.8	67.8	73.2	70.1	65.6	62.7	54.6	76.7
AVERAGE	32.1	52.7	64.9	68.9	72.8	69.8	65.3	62.6	54.5	76.7

60Hz FULL-LOAD DATA, dB(A)										DISTANCE: 7 METERS
MICROPHONE LOCATION	1/1 OCTAVE BAND CENTER FREQUENCY (Hz)									
	31.5	63	125	250	500	1000	2000	4000	8000	dB(A)
FRONT	36.8	64.0	77.7	69.0	75.7	72.4	67.4	64.6	58.0	81.2
LEFT	35.5	65.9	79.6	68.3	72.2	68.1	65.2	63.2	55.8	81.2
REAR	33.1	65.4	79.0	68.8	72.3	68.4	63.6	60.7	52.9	80.7
RIGHT	33.4	65.8	79.5	69.4	72.6	70.5	66.2	63.2	56.4	81.4
AVERAGE	34.7	65.3	79.0	68.9	73.2	69.9	65.6	62.9	55.8	81.1



1. All positions at 23 feet (7 meters) from side faces of generator set.
2. Test conducted on a 100 foot diameter asphalt surface.
3. Sound pressure levels are subject to instrumentation, installation and testing conditions.

Certification of Quality

Generac Power Systems certifies that the products we manufacture have been built and tested in accordance with strict internal and external standards for quality. Our quality management system has been registered with the internationally recognized ISO 9001:2008 standard and our products comply with external standards that include, but are not limited to, CSA, NEMA, EGSA, ISO, and UL.

The Generac Quality Management System (GQMS) ensures the highest standards of quality at every level of production, from raw materials to the finished product. This includes receiving inspection, in-process checks, product and process audits, testing, final inspections, and shipping standards.

Tests of our products are performed in accordance with our internal procedures and controlled through the GQMS to ensure accuracy and effectiveness. The testing process and product designs comply with external standards which may include, but are not limited to: ISO 8528-5, ISO 3046, NFPA 99, NFPA 110, BS 5514, SAE J1349, and DIN 6271.

Generac Power Systems has over one million square feet of manufacturing space and over 2000 employees dedicated to designing and manufacturing power generation equipment in our multiple State of Wisconsin, USA factories. All of our installed and mobile generators are built with pride by our skilled American workforce to ensure our customers receive the quality that they expect from Generac.

We are committed to producing quality products for both our internal and external customers. We will continuously improve our processes and diligently measure all aspects of our business.

Daniel Waschow

Vice President of Quality
Generac Power Systems, Inc.
Waukesha, Wisconsin USA

Generac Power Systems 2 Year (2C) Extended Limited Warranty for Industrial Standby Generators

For the period of warranty noted below, which begins upon the successful start-up and/or on-line activation of the unit, Generac Power Systems, Inc. "Generac" warrants that its Generator will be free from defects in material and workmanship for the items and period set forth below. Generac will, at its discretion, repair or replace any part(s) which, upon evaluation, inspection and testing by Generac or an Independent Authorized Service Dealer, is found to be defective. Any equipment that the purchaser/owner claims to be defective must be evaluated by the nearest Independent Authorized Service Dealer. Emissions components are excluded from coverage under this extended warranty. Emissions warranty coverage is detailed in a separate emissions warranty.

Warranty Coverage: Warranty coverage period is for Two (2) years or two-thousand (2,000) hours, whichever occurs first.

Warranty Coverage in Year(s) 1-2
Parts, Labor and Limited Travel

Limited Gearbox Coverage:

Year(s): 1-5 Coverage	Year(s): 6-10 Coverage
Limited Parts and Labor	Limited Parts Only

Guidelines:

- Unit must be registered and proof of purchase available.
- Any and all warranty repairs and/or concerns must be performed and/or addressed by an Independent Authorized Service Dealer, or branch thereof. Repairs or diagnostics performed by individuals other than an Independent Authorized Service Dealer not authorized in writing by Generac will not be covered.
- This Warranty is transferable between ownership of original install site.
- Generac supplied engine coolant heaters (block-heaters), heater controls and circulating pumps are only covered during the first year of the warranty provision.
- Generac may choose to repair, replace or refund a piece of equipment in its sole discretion.
- Enclosures are warranted against rust for the first year of ownership only. Damage caused after receipt of generator is the responsibility of the owner and is not covered by this warranty. Nicks, scrapes, dents or scratches to the painted enclosure should be repaired promptly by the owner.
- Warranty only applies to permanently wired and mounted units.
- Damage to any covered components or consequential damages caused by the use of a non-OEM part will not be covered by the warranty.
- Proof of performance of all required maintenance must be available.
- Travel allowance is limited to 300 miles maximum and seven and one half (7.5) hours maximum (per occurrence, whichever is less) round trip from the nearest Independent Authorized Service Dealer. Any additional travel required will not be covered.
- Engines, driven components and fuel tanks used in Generac's standby power products system can carry a separate manufacturer's (OEM) warranty (the "OEM Warranties"), unless otherwise expressly stated. OEM Warranties are in addition to this Warranty. All warranty claims for defects in material and/or workmanship on Generac product OEM components, may be directed through the OEM distributor/dealer network. OEM Warranties may vary and are subject to change. Generac shall have no liability under OEM warranties.

The following will NOT be covered by this warranty:

- Costs of normal maintenance (i.e. tune-ups, associated part(s), adjustments, loose/leaking clamps, installation and start-up).
- Damage/failures to the generator caused by accidents, shipping, handling, or improper storage.
- Damage/failures caused by operation with improper fuels, speeds, loads or installations other than what's recommended or specified by Generac Power Systems.
- Damage to the generator due to the use of non-Generac parts and/or equipment, contaminated fuels, oils, coolants/antifreeze or lack of proper fuels, oil or coolants/antifreeze.
- Failures due to normal wear and tear, accident, misuse, abuse, neglect, improper installation, improper sizing, or rodent, reptile, and/or insect infestation.
- Rental equipment used while warranty repairs are being performed and/or any extraordinary equipment used for removal and/or reinstallation of generator (i.e. cranes, hoists, lifts, et. al.).
- Planes, ferries, railroad, buses, helicopters, snowmobiles, snowcats, off-road vehicles or any other mode of transport deemed not standard by Generac.
- Products that are modified or altered in a manner not authorized by Generac in writing.
- Starting batteries, fuses, light bulbs, engine fluids and any related labor.
- Steel enclosures that rust as a result of improper installation, location in a harsh or salt water environment, or are scratched where the integrity of applied paint is compromised.
- Units sold, rated or used for "Prime Power", "Trailer Mounted" or "Rental Unit" applications as defined by Generac. Contact an Independent Authorized Service Dealer for definitions.
- Shipping costs associated with expedited shipping.
- Additional costs for overtime, holiday or emergency labor costs for repairs outside of normal business hours.
- Any incidental, consequential or indirect damages caused by defects in materials or workmanship, or any delay in repair or replacement of the defective part(s).
- Failures caused by any act of God or external cause including without limitation, fire, theft, freezing, war, lightning, earthquake, windstorm, hail, water, tornado, hurricane, or any other matters which are reasonably beyond the manufacturer's control.

THIS WARRANTY SUPERSEDES ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. SPECIFICALLY, GENERAC MAKES NO OTHER WARRANTIES AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY IMPLIED WARRANTIES WHICH ARE ALLOWED BY LAW, SHALL BE LIMITED IN DURATION TO THE TERMS OF THE EXPRESS WARRANTY PROVIDED HEREIN. SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. GENERAC'S ONLY LIABILITY SHALL BE THE REPAIR OR REPLACEMENT OF PART(S) AS STATED ABOVE. IN NO EVENT SHALL GENERAC BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, EVEN IF SUCH DAMAGES ARE A DIRECT RESULT OF GENERAC'S NEGLIGENCE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU ALSO HAVE OTHER RIGHTS UNDER APPLICABLE LAW.

FOR AUSTRALIA ONLY: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

FOR NEW ZEALAND ONLY: Nothing in this warranty statement excludes, restricts or modifies any condition, warranty right or remedy which pursuant to the New Zealand Legislation (Commonwealth or State) including the Fair Trading Practices Act of 1986 or the Consumer Guarantees Act 1993 ("CGA") applies to this limited warranty and may not be so excluded, restricted or modified. Nothing in this statement is intended to have the effect of contracting out of the provisions of the CGA, except to the extent permitted by that Act, and these terms are to be modified to the extent necessary to give effect to that intention. If you acquire goods from Generac Power Systems or any of its authorized resellers and distributors for the purposes of a business, then pursuant to section 43(2) of the CGA, it is agreed that the provisions of the CGA do not apply.

GENERAC POWER SYSTEMS, INC. • P.O. BOX 8 • Waukesha, WI, USA 53187
Ph: (888) GENERAC (436-3722) • Fax: (262) 544-4851

To locate the nearest Independent Authorized Service Dealer and to download schematics, exploded views and parts lists
visit our website: www.generac.com

Garantía limitada extendida de 2 años (2C) de Generac Power Systems para los generadores de respaldo industriales

Durante el período de garantía indicado abajo, que comienza desde la puesta en marcha y/o activación exitosa en línea de la unidad, Generac Power Systems, Inc. "Generac" garantiza que generador estará libre de defectos de material y/o mano de obra para los ítems y el período indicados a continuación. Generac, a su discreción, reparará o sustituirá cualquier pieza o piezas que, por medio de la evaluación, inspección y prueba efectuada por Generac o un Concesionario de servicio autorizado independiente de Generac, se determine que es o son defectuosa(s). Todo equipo que el comprador o propietario reclame como defectuoso debe ser evaluado por el Concesionario de servicio autorizado independiente de Generac más cercano. Los componentes relacionados con emisiones están excluidos de la cobertura bajo esta garantía extendida. La cobertura de la garantía de emisiones se detalla por separado en una garantía de emisiones.

Cobertura de la garantía: El período de cobertura de la garantía es de dos (2) años o dos mil (2000) horas, lo que ocurra primero.

Cobertura de la garantía en año(s) 1-2
Sobre piezas, mano de obra y gastos de viaje limitados

Cobertura limitada sobre la caja de engranajes:

Año(s) de cobertura: 1-5 Cobertura	Año(s) de cobertura: 6-10 Cobertura
Limitada sobre piezas y mano de obra	Limitada solo sobre piezas

Directrices:

- La unidad debe estar registrada y tener prueba de compra disponible.
- Cualquiera y todas las reparaciones y/o preocupaciones por garantía deben ser efectuadas y/o dirigidas por un Concesionario de servicio autorizado independiente de Generac, o una sucursal de este. No serán cubiertas las reparaciones o los diagnósticos efectuados por personas diferentes del Concesionario de servicio autorizado independiente de Generac no autorizados por escrito por Generac.
- Esta garantía es transferible entre propietarios del sitio de instalación original.
- Los calentadores de refrigerante de motor (calentadores de bloque), los controles del calentador y las bombas de circulación suministrados por Generac solo están cubiertos durante el primer año de prestación de la garantía.
- Generac puede elegir reparar, sustituir o reembolsar una pieza del equipo a su exclusiva discreción.
- Los gabinetes están garantizados contra corrosión solamente durante el primer año de propiedad. El daño causado después de la recepción del generador es responsabilidad del comprador y no está cubierto por esta garantía. Las muescas, raspaduras, abolladuras o rayaduras de gabinete pintado deben ser reparadas sin demora por el propietario.
- La garantía corresponde solamente a las unidades conectadas y montadas en forma permanente.
- Los daños a cualquier componente o los daños emergentes causados por el uso de una pieza que no sea OEM no estarán cubiertos por la garantía.
- Debe haber disponible prueba de la ejecución de todo el mantenimiento requerido.
- Las asignaciones para viaje están limitadas a 300 millas como máximo y siete horas y media (7.5) horas como máximo (por ocurrencia, lo que sea menor), viaje de ida y vuelta, desde el Concesionario de servicio autorizado independiente de Generac más cercano. Todo gasto de viaje adicional requerido no será cubierto.
- Los motores, los componentes accionados y los tanques de combustible usados en los productos de respaldo de Generac pueden llevar una garantía de fabricante (OEM) separada (las "Garantías de OEM"), a menos que se estipule expresamente lo contrario. Las garantías de OEM son un agregado a esta garantía. Todos los reclamos de garantía por defectos de material y/o mano de obra en los componentes OEM del producto Generac, pueden ser dirigidos a través de la red de distribuidores/concesionarios OEM. Las garantías de OEM pueden variar y están sujetas a cambios. Generac no tendrá responsabilidad bajo las garantías de OEM.

Lo siguiente NO será cubierto por esta garantía:

- Costes del mantenimiento normal (es decir: afinaciones, pieza[s] relacionada[s], ajustes, abrazaderas sueltas o con fugas, instalación y puesta en marcha).
- Daños/fallos del generador causados por accidentes, transporte, manejo o almacenamiento incorrecto.
- Los daños/fallos causados por la operación con combustibles, velocidades, cargas, o instalaciones incorrectas diferentes de las recomendadas o especificadas por Generac Power Systems.
- Los daños al generador debidos al uso de piezas y/o equipos que no sean de Generac; combustibles, aceites, refrigerantes/ anticongelantes contaminados; o falta de combustibles, aceites, refrigerantes/anticongelantes apropiados.
- Fallos debidos a: desgaste y daño normal, accidente, uso indebido, abuso, negligencia, instalación incorrecta, dimensionamiento incorrecto, o plagas de roedores y/o insectos.
- Equipos arrendados usados mientras se llevan a cabo reparaciones de garantía y/o todos los equipos extraordinarios usados para retirar y/o reinstalar el generador, (esto es: grúas, malacates, elevadores, etc.).
- Aeronaves, transbordadores, ferrocarril, autobuses, helicópteros, motocicletas para nieve, camiones para nieve, vehículos fuera de ruta o cualquier otro modo de transporte no considerado estándar por Generac.
- Productos que se modifiquen o alteren en forma no autorizada por Generac por escrito.
- Baterías de arranque, fusibles, bombillas de luz, fluidos para el motor y mano de obra relacionada.
- Los gabinetes de acero que se corroen debido a instalación incorrecta, ubicación en un entorno agresivo o con agua salada, o se rayen donde esté comprometida la integridad de la pintura aplicada.
- Las unidades vendidas, calificadas para, o usadas en aplicaciones de "Alimentación eléctrica principal", "Montada en remolque" o "Unidad en alquiler" como las define Generac. Comuníquese con un Concesionario de servicio autorizado independiente para las definiciones.
- Costes de envío asociados con envío urgente.
- Costes adicionales por horas extra y feriados o los costes de mano de obra de emergencia por reparaciones fuera del horario de trabajo normal.
- Todos los daños accesorios, emergentes o indirectos causados por defectos en los materiales o mano de obra o toda demora en la reparación o sustitución de la(s) pieza(s) defectuosa(s).
- Los fallos causados por cualquier acto de fuerza mayor o causa externa, que incluyen, sin limitaciones, incendio, robo, congelamiento, guerra, rayos, terremoto, tormenta de viento, granizo, agua, tornado, huracán, o cualesquiera otros asuntos que estén fuera del control razonable del fabricante.

ESTA GARANTÍA SUSTITUYE CUALQUIER OTRA GARANTÍA, EXPRESA O IMPLÍCITA. ESPECÍFICAMENTE, GENERAC NO EXTIENDE NINGUNA OTRA GARANTÍA ACERCA DE LA COMERCIALIZACIÓN O APTITUD PARA UN PROPÓSITO EN PARTICULAR. LA DURACIÓN DE TODAS LAS GARANTÍAS IMPLÍCITAS PERMITIDAS POR LA LEY ESTARÁ LIMITADA A LAS CONDICIONES DE LA GARANTÍA EXPRESA ESTIPULADA EN LA PRESENTE. ALGUNAS JURISDICCIONES NO PERMITEN LIMITACIONES DE LA DURACIÓN DE UNA GARANTÍA IMPLÍCITA; POR LO TANTO, LA LIMITACIÓN PRECEDENTE PUEDE NO APLICARSE A USTED. LA ÚNICA RESPONSABILIDAD DE GENERAC SERÁ REPARAR O SUSTITUIR LA(S) PIEZA(S) COMO SE ESTIPULÓ PRECEDENTEMENTE. GENERAC NO SERÁ RESPONSABLE EN NINGÚN CASO POR NINGÚN DAÑO ACCESORIO O EMERGENTE, AUN CUANDO TAL DAÑO SEA RESULTADO DIRECTO DE LA NEGLIGENCIA DE GENERAC. ALGUNAS JURISDICCIONES NO PERMITEN LA EXCLUSIÓN O LIMITACIÓN DE DAÑOS ACCESORIOS O EMERGENTES, DE MANERA QUE LA LIMITACIÓN PRECEDENTE PUEDE NO APLICARSE A USTED. ESTA GARANTÍA LE OTORGA DERECHOS LEGALES ESPECÍFICOS. TAMBIÉN TIENE OTROS DERECHOS BAJO LA LEY CORRESPONDIENTE.

SOLO PARA AUSTRALIA: Nuestros productos se entregan con garantías que no pueden ser excluidas según la Australian Consumer Law (Ley australiana de consumidores). Usted tiene derecho a sustitución o reembolso por un fallo mayor y a compensación por cualquier otra pérdida o daño razonable previsible. Usted también tiene derecho a que los bienes sean reparados o sustituidos si los bienes no son de calidad aceptable y la falla no llega a ser un fallo mayor.

SOLO PARA NUEVA ZELANDA: Nada de esta declaración de garantía excluye, restringe o modifica ninguna condición, derecho de garantía o solución que, conforme a la legislación de Nueva Zelanda (Comunidad o Estado), incluso la Fair Trading Practices Act (Ley de transacciones comerciales justas) de 1986 o la Consumer Guarantees Act (Ley de garantías de los consumidores, "CGA") de 1993, se aplique a esta garantía limitada y por lo tanto no puede ser sometida a exclusiones, restricciones o modificaciones. Nada de esta declaración tiene el propósito de tener efecto de contratar fuera de las previsiones de la CGA, excepto con el alcance permitido por la ley y estos términos se deben modificar con el alcance necesario para hacer efectiva esta intención. Si adquiere bienes de Generac Power Systems o alguno de sus revendedores y distribuidores autorizados con propósitos comerciales, entonces, conforme a la sección 43(2) de la CGA, se acuerda que no se aplican las previsiones de la CGA.

GENERAC POWER SYSTEMS, INC. • P.O. BOX 8 • Waukesha, WI 53187, EE. UU.
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Para ubicar el Concesionario de servicio autorizado independiente más cercano y descargar diagramas esquemáticos, despieces y listas de piezas visite nuestro sitio Web: www.generac.com

Núm. de pieza. 0J4299

Revisión J (02/16)

Garantie limitée prolongée de 2 ans (2C) de Generac Power Systems sur les générateurs de secours industriels

Pendant la période de garantie mentionnée ci-bas, qui débute dès le démarrage réussi de l'appareil ou l'activation en ligne de l'appareil, Generac Power Systems, Inc. (Generac) garantit que son générateur sera exempt de vices de matériaux et fabrication en ce qui concerne les éléments et la période indiqués ci-dessous. À sa seule discrétion, Generac réparera ou remplacera toute pièce qui est jugée défectueuse après l'évaluation, l'inspection et la mise à l'essai par Generac ou un fournisseur de services d'entretien agréé indépendant. Tout équipement que l'acheteur/propriétaire prétend être défectueux doit être évalué par le fournisseur de services d'entretien agréé indépendant le plus près. Les composants relatives aux émissions ne sont pas couvertes en vertu de la présente garantie. La couverture des composants relatives aux émissions est détaillée dans une garantie distincte.

Couverture de la garantie : La période de garantie est de deux (2) ans ou de deux mille (2000) heures, selon la première éventualité.

Période de garantie de 1 à 2 ans
Pièces, main-d'œuvre et couverture limitée des déplacements

Couverture limitée de la boîte à engrenages :

Période : couverture de 1 à 5 ans	Période : couverture de 6 à 10 ans
Couverture limitée – pièces et main-d'œuvre	Couverture limitée – pièces seulement

Lignes directrices :

1. L'appareil doit être enregistré et la preuve d'achat doit être présentée sur demande.
2. Toute réparation sous garantie doit être effectuée par un fournisseur de services d'entretien agréé indépendant ou l'une de ses succursales, et toute préoccupation doit être également traitée par un fournisseur de services d'entretien agréé indépendant de Generac ou l'une de ses succursales. Toute réparation ou évaluation effectuée par des personnes autres qu'un fournisseur de services d'entretien agréé indépendant qui n'a pas été autorisée par écrit par Generac ne sera pas couverte.
3. La présente garantie est transférable conjointement à la propriété du site d'installation d'origine.
4. Les chauffe-frettes à liquide de refroidissement du moteur (chauffe-moteur), les commandes de chauffage et les pompes de circulation fournies par Generac ne sont couvertes que pendant la première année de la période de garantie.
5. Generac peut choisir, à sa seule discrétion, de réparer, de remplacer ou de rembourser une pièce d'équipement.
6. Les boîtiers sont garantis contre la rouille pendant la première année de possession seulement. Les dommages causés après la réception du générateur sont la responsabilité du propriétaire et ne sont pas couverts par la présente garantie. Les entailles, éraflures, bosses ou égratignures au boîtier peint doivent être réparées sans délai par le propriétaire.
7. La garantie s'applique uniquement aux appareils montés et câblés en permanence.
8. Aucun dommage ou dommage indirect à toute pièce couverte découlant de l'utilisation de pièces non fabriquées par un fabricant d'équipement d'origine ne sera couvert par la garantie.
9. Une preuve d'exécution de tous les travaux d'entretien requis doit être présentée sur demande.
10. La présente garantie couvre les déplacements aller-retour d'un maximum de 480 km (300 miles) et de sept heures et demie (7,5) (par déplacement, selon le moindre des deux) à partir du fournisseur de services d'entretien agréé indépendant le plus près. Tout déplacement supplémentaire requis ne sera pas couvert.
11. Les moteurs, les pièces d'entraînement et les réservoirs de carburant utilisés dans les systèmes d'alimentation de secours de Generac peuvent être protégés au titre de la garantie d'un fabricant d'équipement distinct (les « garanties des fabricants d'équipement d'origine »), sauf indication expresse à l'effet contraire. Les garanties des fabricants d'équipement d'origine s'ajoutent à la présente garantie. Toute réclamation au titre de la garantie pour vices de matériaux ou de fabrication de pièces d'un fabricant d'équipement d'origine sur un produit Generac peut être faite auprès du distributeur ou du réseau de fournisseurs de ce fabricant d'équipement d'origine. Les garanties des fabricants d'équipement d'origine peuvent varier et faire l'objet de modifications. Generac n'a aucune responsabilité découlant des garanties offertes par les fabricants d'équipement d'origine.

Les éléments suivants ne seront PAS couverts par la présente garantie :

1. Les coûts d'entretien normal (c'est-à-dire mises au point, réglages de pièces associées, ajustements, resserrage de fixations, installation et démarrage).
2. Les dommages ou défaillances du générateur causés par un accident, le transport, la manutention ou un entreposage inadéquat.
3. Les dommages/défaillances causés par l'utilisation de carburants inappropriés ou l'utilisation à des vitesses, avec des charges ou selon une installation autres que ce qui est recommandé ou spécifié par Generac Power Systems.
4. Les dommages au générateur causés par l'utilisation de pièces ou d'équipement non fabriqués par Generac, de carburant, d'huile, de liquide de refroidissement et d'antigel contaminé ou encore du manque de carburant, d'huile, de liquide de refroidissement et d'antigel.
5. Les défaillances causées par l'usure normale, un accident, une utilisation inappropriée, une utilisation abusive, une négligence, une installation inadéquate, un dimensionnement inadéquat ou une infestation de rongeurs, de reptiles ou d'insectes.
6. L'équipement de location utilisé pendant que des réparations sous garantie sont effectuées et/ou tout équipement extraordinaire utilisé pour retirer ou réinstaller le générateur (c'est-à-dire grues, appareils de levage, élévateurs, etc.).
7. Les avions, les traversiers, les trains, les autobus, les hélicoptères, les motoneiges, les dameuses, les véhicules hors route ou tout autre moyen de transport jugé non standard par Generac.
8. Les produits modifiés ou altérés d'une manière qui n'a pas été autorisée par écrit par Generac.
9. Les batteries de démarrage, les fusibles, les ampoules électriques, les fluides de moteur et toute main-d'œuvre connexe.
10. Les boîtiers en acier qui rouillent en raison d'une installation inadéquate, d'une installation dans un environnement difficile ou salin ou d'égratignures qui compromettent l'intégrité de la peinture appliquée sur le boîtier.
11. Les appareils vendus, cotés ou utilisés selon les applications suivantes, telles qu'elles sont définies par Generac : « puissance électrique de base », « monté sur remorque » ou « unité de location ». Veuillez communiquer avec un fournisseur de services d'entretien agréé indépendant pour obtenir les définitions.
12. Les coûts d'expédition liés à l'expédition accélérée.
13. Les coûts supplémentaires liés aux heures supplémentaires, aux jours fériés ou aux services d'urgence pour toute réparation effectuée en dehors des heures normales de bureau.
14. Tout dommage accessoire, subséquent ou indirect causé par un défaut de matériau et de fabrication ou par tout retard dans la réparation ou le remplacement de pièces défectueuses.
15. Les défaillances causées par un cas de force majeure ou une cause externe y compris, sans toutefois s'y limiter, le feu, le vol, le gel, la guerre, la foudre, un tremblement de terre, une tempête, la grêle, la pluie, une tornade, un ouragan ou toute autre situation raisonnablement hors du contrôle du fabricant.

LA PRÉSENTE GARANTIE REMPLACE TOUTES LES AUTRES GARANTIES, EXPLICITES OU IMPLICITES. EN PARTICULIER, GENERAC N'OFFRE AUCUNE AUTRE GARANTIE QUANT À LA QUALITÉ MARCHANDE OU À LA CONVENANCE À UN USAGE PARTICULIER. TOUTE GARANTIE IMPLICITE AUTORISÉE PAR LA LOI SERA LIMITÉE À LA DURÉE DE LA PÉRIODE DE LA PRÉSENTE GARANTIE EXPLICITE. CERTAINS ÉTATS OU PROVINCES NE PERMETTENT PAS LES LIMITATIONS SUR LA DURÉE D'UNE GARANTIE IMPLICITE ET, PAR CONSÉQUENT, LA PRÉSENTE LIMITATION PEUT NE PAS S'APPLIQUER. LA RESPONSABILITÉ DE GENERAC SE LIMITERA À LA RÉPARATION OU AU REMPLACEMENT DES PIÈCES, COMME INDICÉ PRÉCÉDEMMENT. EN AUCUN CAS GENERAC NE POURRA ÊTRE TENUE RESPONSABLE DE DOMMAGES ACCESSOIRES OU SUBSÉQUENTS, MÊME SI LES DOMMAGES RÉSULTENT DIRECTEMENT DE LA NÉGLIGENCE DE GENERAC. CERTAINS ÉTATS OU PROVINCES N'AUTORISENT PAS L'EXCLUSION NI LA LIMITATION DES DOMMAGES ACCESSOIRES OU INDIRECTS ET, PAR CONSÉQUENT, LA LIMITATION ÉNONCÉE CI-DESSUS PEUT NE PAS S'APPLIQUER. CETTE GARANTIE VOUS CONFÈRE DES DROITS LÉGAUX PRÉCIS. VOUS POUVEZ ÉGALEMENT JOUIR D'AUTRES DROITS EN VERTU DES LOIS APPLICABLES.

POUR L'Australie UNIQUEMENT : Nos produits sont fournis avec des garanties qui ne peuvent être exclues en vertu de la loi australienne sur la consommation (Australian Consumer Law). Vous avez droit à un remplacement ou à un remboursement pour une défaillance majeure et à une indemnisation pour toute autre perte ou tout dommage raisonnablement prévisible. Vous disposez également d'un droit à la réparation ou au remplacement si les produits ne sont pas d'une qualité acceptable et si cette défaillance n'est pas considérée comme majeure.

POUR LA NOUVELLE-ZÉLANDE UNIQUEMENT : Cette garantie n'exclut, ne restreint ni ne modifie aucune condition, aucun droit de garantie ou recours qui, conformément à la législation de Nouvelle-Zélande (Commonwealth ou État), y compris la loi sur la pratique commerciale loyale de 1986 (Fair Trading Practices Act) ou la loi sur la protection du consommateur de 1993 (CGA ou Consumer Guarantees Act), s'applique à cette garantie limitée et ne peut pas être exclue, restreinte ou modifiée. Cette garantie ne vise en aucun cas à contourner les dispositions de la CGA, sauf dans la mesure permise par cette loi, et ces termes doivent être modifiés dans la mesure nécessaire pour donner effet à cette intention. Si vous faites l'acquisition d'un produit de Generac Power Systems ou d'un de ses distributeurs et revendeurs autorisés à des fins commerciales, alors, conformément à l'article 43(2) de la CGA, il est convenu que les dispositions de la CGA ne s'appliquent pas.

GENERAC POWER SYSTEMS, INC. • C.P. 8 • Waukesha, WI (É.-U.) 53187
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Pour trouver le fournisseur de services d'entretien agréé indépendant le plus près et pour télécharger les schémas, les vues éclatées et les listes de pièces visitez notre site Web : www.generac.com

Generac Power Systems 2 Year (2C) Extended Limited Warranty for Industrial Transfer Switch Systems

For the period of warranty noted below, which begins upon the successful start-up and/or on-line activation of the unit, Generac Power Systems, Inc. "Generac" warrants that its transfer switch will be free from defects in material and workmanship for the items and period set forth below. Generac will, at its discretion, repair or replace any part(s) which, upon evaluation, inspection and testing by Generac or an Independent Authorized Service Dealer, is found to be defective. Any equipment that the purchaser/owner claims to be defective must be evaluated by the nearest Independent Authorized Service Dealer.

Warranty Coverage in Year(s) 1-2
Parts, Labor and Limited Travel

Guidelines:

1. Unit must be registered and proof of purchase available.
2. Any and all warranty repairs and/or concerns must be performed and/or addressed by an Independent Authorized Service Dealer, or branch thereof. Repairs or diagnostics performed by individuals other than Independent Authorized Service Dealers not authorized in writing by Generac will not be covered.
3. Warranty is transferable between ownership of original installation site.
4. Generac may choose to repair, replace or refund a piece of equipment in its sole discretion.
5. Warranty only applies to permanently wired and mounted units.
6. Enclosures are warranted for the first year of ownership only. Damage caused after receipt of generator is the responsibility of the owner and is not covered by this warranty. Nicks, scrapes, dents or scratches to the painted enclosure should be repaired promptly by the owner.
7. Proof of performance of all required maintenance must be available.
8. Travel allowance is limited to 300 miles maximum or seven and one half (7.5) hours maximum (per occurrence, whichever is less) round trip from the nearest Independent Authorized Service Dealer. Any additional travel required will not be covered.

The following will NOT be covered by this warranty:

1. Costs of normal maintenance (i.e. associated part(s), adjustments, installation and start-up).
2. Damage to the transfer switch system caused by accidents, shipping, handling or improper storage.
3. Damage/failures caused by operation with loads or installations other than what's recommended or specified by Generac. Unauthorized modification/misapplication will not be warranted unless authorized by Generac in writing.
4. Rental equipment used while warranty repairs are being performed and/or any extraordinary equipment used for removal and/or reinstallation of generator (i.e. cranes, hoists, lifts, et. al.).
5. Planes, ferries, railroad, buses, helicopters, snowmobiles, snow-cats, off-road vehicles or any other mode of transport deemed not standard by Generac.
6. Failures due to normal wear and tear, accident, misuse, abuse, neglect, improper installation, or improper sizing.
7. Damage to any covered components or consequential damages caused by the use of a non-OEM part will not be covered by this warranty.
8. Damage related to rodent, reptile, and/or insect infestation.
9. Repairs or diagnostics performed by individuals other than Independent Authorized Service Dealers not authorized in writing by Generac.
10. Steel enclosures that rust as a result of improper installation, location in a harsh or salt water environment, or are scratched where the integrity of applied paint is compromised.
11. Fuses, light bulbs and any related labor.
12. Units sold, rated or used for "Prime Power", "Trailer Mounted" or "Rental Unit" applications as defined by Generac. Contact an Independent Authorized Service Dealer for definitions.
13. Failures caused by any act of God or external cause including without limitation, fire, theft, freezing, war, lightning, earthquake, windstorm, hail, water, tornado, hurricane, or any other matters which are reasonably beyond the manufacturer's control.
14. Shipping costs associated with expedited shipping.
15. Any incidental, consequential or indirect damages caused by defects in materials or workmanship, or any delay in repair or replacement of the defective part(s).
16. Any unit built/manufactured prior to 2014 models.
17. Overtime, holiday or emergency labor.
18. Living or travel expenses of person(s) performing service, except as specifically included within the terms of a specific unit warranty period.

THIS WARRANTY SUPERSEDES ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. SPECIFICALLY, GENERAC MAKES NO OTHER WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY IMPLIED WARRANTIES WHICH ARE ALLOWED BY LAW, SHALL BE LIMITED IN DURATION TO THE TERMS OF THE EXPRESS LIMITED WARRANTY PROVIDED HEREIN. SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. GENERAC'S ONLY LIABILITY SHALL BE THE REPAIR OR REPLACEMENT OF PART(S) AS STATED ABOVE. IN NO EVENT SHALL GENERAC BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, EVEN IF SUCH DAMAGES ARE A DIRECT RESULT OF GENERAC'S NEGLIGENCE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU COULD ALSO HAVE OTHER RIGHTS UNDER APPLICABLE LAW.

FOR AUSTRALIA ONLY: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

FOR NEW ZEALAND ONLY: Nothing in this warranty statement excludes, restricts or modifies any condition, warranty right or remedy which pursuant to the New Zealand Legislation (Commonwealth or State) including the Fair Trading Practices Act of 1986 or the Consumer Guarantees Act 1993 ("CGA") applies to this limited warranty and may not be so excluded, restricted or modified. Nothing in this statement is intended to have the effect of contracting out of the provisions of the CGA, except to the extent permitted by that Act, and these terms are to be modified to the extent necessary to give effect to that intention. If you acquire goods from Generac Power Systems or any of its authorized resellers and distributors for the purposes of a business, then pursuant to section 43(2) of the CGA, it is agreed that the provisions of the CGA do not apply.

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To locate the nearest Independent Authorized Service Dealer and to download schematics, exploded views and parts lists
visit our website: www.generac.com

Garantía limitada extendida de 2 años (2C) de Generac Power Systems para los sistemas de interruptores de transferencia industriales

Durante el período de garantía indicado abajo, que comienza desde la puesta en marcha y/o activación exitosa en línea de la unidad, Generac Power Systems, Inc. "Generac" garantiza que su sistema de interruptor de transferencia estará libre de defectos de material y/o mano de obra para los ítems y el período indicados a continuación. Generac, a su discreción, reparará o sustituirá cualquier pieza o piezas que, por medio de la evaluación, inspección y prueba efectuada por Generac o un Concesionario de servicio autorizado independiente de Generac, se determine que es o son defectuosa(s). Todo equipo que el comprador o propietario reclame como defectuoso debe ser evaluado por el Concesionario de servicio autorizado independiente de Generac más cercano.

Cobertura de la garantía en año(s) 1-2
Sobre piezas, mano de obra y gastos de viaje limitados

Directrices:

1. La unidad debe estar registrada y tener prueba de compra disponible.
2. Cualquiera y todas las reparaciones y/o preocupaciones por garantía deben ser efectuadas y/o dirigidas por un Concesionario de servicio autorizado independiente de Generac, o una sucursal de este. No serán cubiertas las reparaciones o los diagnósticos efectuados por personas diferentes de los Concesionarios de servicio autorizados independientes de Generac no autorizados por escrito por Generac.
3. La garantía es transferible entre propietarios del sitio de instalación original.
4. Generac puede elegir reparar, sustituir o reembolsar una pieza del equipo a su exclusiva discreción.
5. La garantía corresponde solamente a las unidades conectadas y montadas en forma permanente.
6. Los gabinetes están garantizados contra corrosión solamente durante el primer año de propiedad. El daño causado después de la recepción del generador es responsabilidad del comprador y no está cubierto por esta garantía. Las muescas, raspaduras, abolladuras o rayaduras de gabinete pintado deben ser reparadas sin demora por el propietario.
7. Debe haber disponible prueba de la ejecución de todo el mantenimiento requerido.
8. Las asignaciones para viaje están limitadas a 300 millas como máximo o siete horas y media (7.5) horas como máximo (por ocurrencia, lo que sea menor), viaje de ida y vuelta, desde el Concesionario de servicio autorizado independiente de Generac más cercano. Todo gasto de viaje adicional requerido no será cubierto.

Lo siguiente NO será cubierto por esta garantía:

1. Los costes del mantenimiento normal (es decir: pieza[s] relacionada[s], ajustes, instalación y puesta en marcha inicial).
2. Los daños al sistema de interruptor de transferencia causados por accidentes, envío, manipulación o almacenamiento incorrecto.
3. Los daños/fallos causados por la operación con cargas o instalaciones incorrectas diferentes de las recomendadas o especificadas por Generac. Las modificaciones/aplicaciones incorrectas no autorizadas no estarán garantizadas salvo que sean autorizadas por Generac por escrito.
4. Equipos arrendados usados mientras se llevan a cabo reparaciones de garantía y/o todos los equipos extraordinarios usados para retirar y/o reinstalar el generador, (esto es: grúas, malacates, elevadores, etc.).
5. Aeronaves, transbordadores, ferrocarril, autobuses, helicópteros, motocicletas para nieve, camiones para nieve, vehículos fuera de ruta o cualquier otro modo de transporte no considerado estándar por Generac.
6. Fallos debidos a: desgaste y daño normal, accidente, uso indebido, abuso, negligencia, instalación incorrecta o dimensionamiento incorrecto.
7. Los daños a cualquier componente o los daños emergentes causados por el uso de una pieza que no sea OEM no estarán cubiertos por esta garantía.
8. Daños relacionados con plagas de roedores, reptiles y/o insectos.
9. Las reparaciones o los diagnósticos efectuados por personas diferentes de los Concesionarios de servicio autorizados de Generac no autorizados por escrito por Generac.
10. Los gabinetes de acero que se corroen debido a instalación incorrecta, ubicación en un entorno agresivo o con agua salada, o se rayen donde esté comprometida la integridad de la pintura aplicada.
11. Fusibles, bombillas de luz y mano de obra relacionada.
12. Las unidades vendidas, calificadas para, o usadas en aplicaciones de "Alimentación eléctrica principal", "Montada en remolque" o "Unidad en alquiler" como las define Generac. Comuníquese con un Concesionario de servicio autorizado independiente para las definiciones.
13. Los fallos causados por cualquier acto de fuerza mayor o causa externa, que incluyen, sin limitaciones, incendio, robo, congelamiento, guerra, rayos, terremoto, tormenta de viento, granizo, agua, tornado, huracán, o cualesquiera otros asuntos que estén fuera del control razonable del fabricante.
14. Costes de envío asociados con envío urgente.
15. Todos los daños accesorios, emergentes o indirectos causados por defectos en los materiales o mano de obra o toda demora en la reparación o sustitución de la(s) pieza(s) defectuosa(s).
16. Toda unidad fabricada/construida antes de los modelos de 2014.
17. Horas extra, trabajo en días festivos o de emergencia.
18. Gastos de estadía o viaje de la(s) persona(s) que efectúe(n) el servicio, excepto como se incluya específicamente dentro de los términos del período de garantía de una unidad específica.

ESTA GARANTÍA SUSTITUYE CUALQUIER OTRA GARANTÍA, EXPRESA O IMPLÍCITA. ESPECÍFICAMENTE, GENERAC NO EXTIENDE NINGUNA OTRA GARANTÍA ACERCA DE LA COMERCIALIZACIÓN O APTITUD PARA UN PROPÓSITO EN PARTICULAR. LA DURACIÓN DE TODAS LAS GARANTÍAS IMPLÍCITAS PERMITIDAS POR LA LEY ESTARÁ LIMITADA A LAS CONDICIONES DE LA GARANTÍA LIMITADA EXPRESA ESTIPULADA EN LA PRESENTE. ALGUNAS JURISDICCIONES NO PERMITEN LIMITACIONES DE LA DURACIÓN DE UNA GARANTÍA IMPLÍCITA; POR LO TANTO, LA LIMITACIÓN PRECEDENTE PUEDE NO APLICARSE A USTED. LA ÚNICA RESPONSABILIDAD DE GENERAC SERÁ REPARAR O SUSTITUIR LA(S) PIEZA(S) COMO SE ESTIPULÓ PRECEDENTEMENTE. GENERAC NO SERÁ RESPONSABLE EN NINGÚN CASO POR NINGÚN DAÑO ACCESORIO O EMERGENTE, AUN CUANDO TAL DAÑO SEA RESULTADO DIRECTO DE LA NEGLIGENCIA DE GENERAC. ALGUNAS JURISDICCIONES NO PERMITEN LA EXCLUSIÓN O LIMITACIÓN DE DAÑOS ACCESORIOS O EMERGENTES, DE MANERA QUE LA LIMITACIÓN PRECEDENTE PUEDE NO APLICARSE A USTED. ESTA GARANTÍA LE OTORGA DERECHOS LEGALES ESPECÍFICOS. TAMBIÉN PUEDE TENER OTROS DERECHOS BAJO LA LEY CORRESPONDIENTE.

SOLO PARA AUSTRALIA: Nuestros productos se entregan con garantías que no pueden ser excluidas según la Australian Consumer Law (Ley australiana de consumidores). Usted tiene derecho a sustitución o reembolso por un fallo mayor y a compensación por cualquier otra pérdida o daño razonable previsible. Usted también tiene derecho a que los bienes sean reparados o sustituidos si los bienes no son de calidad aceptable y la falla no llega a ser un fallo mayor.

SOLO PARA NUEVA ZELANDA: Nada de esta declaración de garantía excluye, restringe o modifica ninguna condición, derecho de garantía o solución que, conforme a la legislación de Nueva Zelanda (Comunidad o Estado), incluso la Fair Trading Practices Act (Ley de transacciones comerciales justas) de 1986 o la Consumer Guarantees Act (Ley de garantías de los consumidores, "CGA") de 1993, se aplique a esta garantía limitada y por lo tanto no puede ser sometida a exclusiones, restricciones o modificaciones. Nada de esta declaración tiene el propósito de tener efecto de contratar fuera de las previsiones de la CGA, excepto con el alcance permitido por la ley y estos términos se deben modificar con el alcance necesario para hacer efectiva esta intención. Si adquiere bienes de Generac Power Systems o alguno de sus revendedores y distribuidores autorizados con propósitos comerciales, entonces, conforme a la sección 43(2) de la CGA, se acuerda que no se aplican las previsiones de la CGA.

GENERAC POWER SYSTEMS, INC. • P.O. BOX 8 • Waukesha, WI 53187, EE. UU.
Tel.: (888) GENERAC (436-3722) • Fax: (262) 544-4851

Para ubicar el Concesionario de servicio autorizado independiente más cercano y descargar diagramas esquemáticos, despieces y listas de piezas visite nuestro sitio Web: www.generac.com

Garantie limitée prolongée de 2 ans (2C) de Generac Power Systems sur les commutateurs de transfert industriels

Pendant la période de garantie mentionnée ci-bas, qui débute dès le démarrage réussi de l'appareil ou l'activation en ligne de l'appareil, Generac Power Systems, Inc. (Generac) garantit que son commutateur de transfert sera exempt de vices de matériaux et fabrication en ce qui concerne les éléments et la période indiqués ci-dessous. À sa seule discrétion, Generac réparera ou remplacera toute pièce qui est jugée défectueuse après l'évaluation, l'inspection et la mise à l'essai par Generac ou un fournisseur de services d'entretien agréé indépendant. Tout équipement que l'acheteur/propriétaire prétend être défectueux doit être évalué par le fournisseur de services d'entretien agréé indépendant le plus près.

Période de garantie de 1 à 2 ans
Pièces, main-d'œuvre et couverture limitée des déplacements

Lignes directrices :

1. L'appareil doit être enregistré et la preuve d'achat doit être présentée sur demande.
2. Toute réparation sous garantie doit être effectuée par un fournisseur de services d'entretien agréé indépendant ou l'une de ses succursales, et toute préoccupation doit être également traitée par un fournisseur de services d'entretien agréé indépendant de Generac ou l'une de ses succursales. Toute réparation ou évaluation effectuée par des personnes autres que des fournisseurs de services d'entretien agréés indépendants qui n'a pas été autorisée par écrit par Generac ne sera pas couverte.
3. La présente garantie est transférable conjointement à la propriété du site d'installation d'origine.
4. Generac peut choisir, à sa seule discrétion, de réparer, de remplacer ou de rembourser une pièce d'équipement.
5. La garantie s'applique uniquement aux appareils montés et câblés en permanence.
6. Les boîtiers sont garantis pendant la première année de possession seulement. Les dommages causés après la réception du générateur sont la responsabilité du propriétaire et ne sont pas couverts par la présente garantie. Les entailles, éraflures, bosses ou égratignures au boîtier peint doivent être réparées sans délai par le propriétaire.
7. Une preuve d'exécution de tous les travaux d'entretien requis doit être présentée sur demande.
8. La présente garantie couvre les déplacements aller-retour d'un maximum de 480 km (300 miles) et de sept heures et demie (7,5) (par déplacement, selon le moindre des deux) à partir du fournisseur de services d'entretien agréé indépendant le plus près. Tout déplacement supplémentaire requis ne sera pas couvert.

Les éléments suivants ne seront PAS couverts par la présente garantie :

1. Les coûts d'entretien normal (c'est-à-dire pièces associées, ajustements, installation et démarrage).
2. Les dommages au commutateur de transfert causés par un accident, le transport, la manutention ou un entreposage inadéquat.
3. Les dommages/défaillances causés par des charges ou selon une installation autres que ce qui est recommandé ou spécifié par Generac. Les modifications ou les utilisations non autorisées ne seront pas couvertes, sauf si Generac les autorise par écrit.
4. L'équipement de location utilisé pendant que des réparations sous garantie sont effectuées et/ou tout équipement extraordinaire utilisé pour retirer ou réinstaller le générateur (c'est-à-dire grues, appareils de levage, élévateurs, etc.).
5. Les avions, les traversiers, les trains, les autobus, les hélicoptères, les motoneiges, les dameuses, les véhicules hors route ou tout autre moyen de transport jugé non standard par Generac.
6. Les défaillances causées par l'usure normale, un accident, une utilisation inappropriée, une utilisation abusive, une négligence, une installation inadéquate ou un dimensionnement inadéquat.
7. Aucun dommage ou dommage indirect à toute pièce couverte découlant de l'utilisation de pièces non fabriquées par un fabricant d'équipement d'origine ne sera couvert par la présente garantie.
8. Les dommages causés par une infestation de rongeurs, de reptiles ou d'insectes.
9. Toute réparation ou évaluation effectuée par des personnes autres que des fournisseurs de services d'entretien agréés indépendants qui n'a pas été autorisée par écrit par Generac.
10. Les boîtiers en acier qui rouillent en raison d'une installation inadéquate, d'une installation dans un environnement difficile ou salin ou d'égratignures qui compromettent l'intégrité de la peinture appliquée sur le boîtier.
11. Les fusibles, les ampoules électriques et toute main-d'œuvre connexe.
12. Les appareils vendus, cotés ou utilisés selon les applications suivantes, telles qu'elles sont définies par Generac : « puissance électrique de base », « monté sur remorque » ou « unité de location ». Veuillez communiquer avec un fournisseur de services d'entretien agréé indépendant pour obtenir les définitions.
13. Les défaillances causées par un cas de force majeure ou une cause externe y compris, sans toutefois s'y limiter, le feu, le vol, le gel, la guerre, la foudre, un tremblement de terre, une tempête, la grêle, la pluie, une tornade, un ouragan ou toute autre situation raisonnablement hors du contrôle du fabricant.
14. Les coûts d'expédition liés à l'expédition accélérée.
15. Tout dommage accessoire, subséquent ou indirect causé par un défaut de matériau et de fabrication ou par tout retard dans la réparation ou le remplacement de pièces défectueuses.
16. Tout appareil construit/fabriqués avant les modèles 2014.
17. Les heures supplémentaires, les jours fériés ou les salaires de la main-d'œuvre d'urgence.
18. Les frais d'hébergement ou de transport des personnes réalisant l'entretien, sauf s'ils sont spécifiquement compris en vertu des conditions d'une période de garantie d'un appareil spécifique.

LA PRÉSENTE GARANTIE REMPLACE TOUTES LES AUTRES GARANTIES, EXPLICITES OU IMPLICITES. EN PARTICULIER, GENERAC N'OFFRE AUCUNE GARANTIE QUANT À LA QUALITÉ MARCHANDE OU À LA CONVENANCE À UN USAGE PARTICULIER. TOUTE GARANTIE IMPLICITE AUTORISÉE PAR LA LOI SERA LIMITÉE À LA DURÉE DE LA PÉRIODE DE LA PRÉSENTE GARANTIE LIMITÉE EXPLICITE. CERTAINS ÉTATS OU PROVINCES NE PERMETTENT PAS LES LIMITATIONS SUR LA DURÉE D'UNE GARANTIE IMPLICITE ET, PAR CONSÉQUENT, LA PRÉSENTE LIMITATION PEUT NE PAS S'APPLIQUER. LA RESPONSABILITÉ DE GENERAC SE LIMITERA À LA RÉPARATION OU AU REMPLACEMENT DES PIÈCES, COMME INDIQUÉ PRÉCÉDEMMENT. EN AUCUN CAS GENERAC NE POURRA ÊTRE TENUE RESPONSABLE DE DOMMAGES ACCESSOIRES OU SUBSÉQUENTS, MÊME SI LES DOMMAGES RÉSULTENT DIRECTEMENT DE LA NÉGLIGENCE DE GENERAC. CERTAINS ÉTATS OU PROVINCES N'AUTORISENT PAS L'EXCLUSION NI LA LIMITATION DES DOMMAGES ACCESSOIRES OU INDIRECTS ET, PAR CONSÉQUENT, LA LIMITATION ÉNONCÉE CI-DESSUS PEUT NE PAS S'APPLIQUER. CETTE GARANTIE VOUS CONFÈRE DES DROITS LÉGAUX PRÉCIS. VOUS POUVEZ ÉGALEMENT JOUIR D'AUTRES DROITS EN VERTU DES LOIS APPLICABLES.

POUR L'Australie UNIQUEMENT : Nos produits sont fournis avec des garanties qui ne peuvent être exclues en vertu de la loi australienne sur la consommation (Australian Consumer Law). Vous avez droit à un remplacement ou à un remboursement pour une défaillance majeure et à une indemnisation pour toute autre perte ou tout dommage raisonnablement prévisible. Vous disposez également d'un droit à la réparation ou au remplacement si les produits ne sont pas d'une qualité acceptable et si cette défaillance n'est pas considérée comme majeure.

POUR LA NOUVELLE-ZÉLANDE UNIQUEMENT : Cette garantie n'exclut, ne restreint ni ne modifie aucune condition, aucun droit de garantie ou recours qui, conformément à la législation de Nouvelle-Zélande (Commonwealth ou État), y compris la loi sur la pratique commerciale loyale de 1986 (Fair Trading Practices Act) ou la loi sur la protection du consommateur de 1993 (CGA ou Consumer Guarantees Act), s'applique à cette garantie limitée et ne peut pas être exclue, restreinte ou modifiée. Cette garantie ne vise en aucun cas à contourner les dispositions de la CGA, sauf dans la mesure permise par cette loi, et ces termes doivent être modifiés dans la mesure nécessaire pour donner effet à cette intention. Si vous faites l'acquisition d'un produit de Generac Power Systems ou d'un de ses distributeurs et revendeurs autorisés à des fins commerciales, alors, conformément à l'article 43(2) de la CGA, il est convenu que les dispositions de la CGA ne s'appliquent pas.

GENERAC POWER SYSTEMS, INC. • C.P. 8 • Waukesha, WI (É.-U.) 53187
Téléphone : (888) GENERAC (436-3722) • Télécopieur : (262) 544-4851

Pour trouver le fournisseur de services d'entretien agréé indépendant le plus près et pour télécharger les schémas, les vues éclatées et les listes de pièces
visitez notre site Web : www.generac.com



CERTIFICATE



This is to certify that

Generac Power Systems, Inc.

S45 W29290 Hwy. 59
Waukesha, WI 53189
United States of America

with the organizational units/sites as listed in the annex

has implemented and maintains a **Quality Management System**.

Scope:

Design, Manufacturing, and Distribution of Generators and Power Products.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2015

Certificate registration no.	10012920 QM15
Date of original certification	2013-12-09
Date of certification	2018-07-16
Valid until	2021-07-15



DQS Inc.

Brad McGuire
Managing Director



Annex to certificate
Registration No. 10012920 QM15

Generac Power Systems, Inc.

S45 W29290 Hwy. 59
Waukesha, WI 53189
United States of America

Location

Scope

10012920
Generac Power Systems, Inc.
S45 W29290 Hwy. 59
Waukesha, WI 53189
United States of America

Design, Manufacturing of Generator Components and Distribution of Service Parts.

10012922
Generac Power Systems, Inc.
211 Murphy Dr.
Eagle, WI 53119
United States of America

Manufacturing and Distribution of Generators.

10012923
Generac Power Systems, Inc.
757 N. Newcomb St.
Whitewater, WI 53190
United States of America

Manufacturing and Distribution of Generators and Manufacture of Generator components.

10012924
Generac Power Systems, Inc.
900 N. Parkway
Jefferson, WI 53549
United States of America

Manufacturing of Generators and Power Products.

10013528
Generac Power Systems
3815 Oregon St.
Oshkosh, WI 54902
United States of America

Manufacturing of Generators.

Remote Location

Scope

10014175
Generac Power Systems, Inc.
351 Collins Road
Jefferson, WI 53549
United States of America

The remote location at Jefferson, WI performs the following primary functions: Parts and Components Receiving, Inventory, and Distribution to Generac Locations.

This annex (edition: 2018-07-16) is only valid in connection with the above-mentioned certificate.

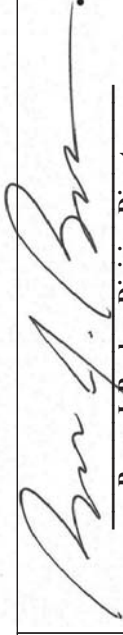


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
2019 MODEL YEAR
CERTIFICATE OF CONFORMITY
WITH THE CLEAN AIR ACT

OFFICE OF TRANSPORTATION
AND AIR QUALITY
ANN ARBOR, MICHIGAN 48105

Certificate Issued To: FPT Industrial S.p.A.
(U.S. Manufacturer or Importer)
Certificate Number: KFPXL06.7DGB-003

Effective Date:
07/16/2018
Expiration Date:
12/31/2019


Byron J. Bunker, Division Director
Compliance Division

Issue Date:
07/16/2018
Revision Date:
N/A

Model Year: 2019
Manufacturer Type: Original Engine Manufacturer
Engine Family: KFPXL06.7DGB

Mobile/Stationary Indicator: Stationary
Emissions Power Category: 75<=kW<130
Fuel Type: Diesel
After Treatment Devices: No After Treatment Devices Installed
Non-after Treatment Devices: No Non-After Treatment Devices Installed

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Part 60, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

The actual engine power may lie outside the limits of the Emissions Power Category shown above. See the certificate application for details.

Warranty

United States Environmental Protection Agency Warranty Statement (Stationary Emergency Compression-Ignition Generators)

Warranty Rights, Obligations and Coverage

Your emission-related warranty covers only components whose failure would increase an engine's emissions of any regulated pollutant where they are designed, built, and equipped to be free from defects in materials and workmanship under applicable regulations of section 213 of the clean air act. To receive information about how to make an emission-related warranty claim, and how to make arrangements for authorized repairs call **1-800-333-1322** or **www.generac.com**. Emission-related warranty claims may be denied without proof of proper maintenance or use, accidents beyond the control of the manufacturer, or act of God. Proper maintenance is specified in the Owner's Manual. Usage is limited to stationary emergency operations and 100 hours per year for maintenance and readiness testing. The warranty period begins when the engine is placed into service. Warranty periods for compression ignition engines greater than 25 horsepower is five years. This warranty is applicable to compression-ignition generator models; equal to and larger than an SD80 starting 1/1/2011, equal to and larger than an SD35 starting 1/1/2012, and all compression-ignition generator models starting 1/1/2013.

Important Note

This warranty statement explains your rights and obligations under the Emission Control System Warranty, which is provided to you by Generac pursuant to federal law. Note that this warranty shall not apply to any incidental, consequential or indirect damages caused by defects in materials or workmanship or any delay in repair or replacement of the defective part(s). This warranty is in place of all other warranties, expressed or implied. Specifically, Generac makes no other warranties as to the merchantability or fitness for a particular purpose. Any implied warranties which are allowed by law, shall be limited in duration to the terms of the express warranty provided herein. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.