



INVITATION TO BID

SOLICITATION TITLE: Furnish and Install 2 Generators-Bristol and Middletown Armorys

SOLICITATION NUMBER: 7549095

BID PROPOSAL SUBMISSION DEADLINE: November 18, 2014 at 10:30 AM

PREBID CONFERENCE

NONMANDATORY

MANDATORY → Bidder must attend the mandatory prebid conference. The bidder's representative must register with the Division of Purchases at the mandatory prebid conference and identify the bidder he or she represents.

Location: Middletown Armory, 106 Airport Access Rd., Middletown RI then move to
Bristol Armory, 470 Metacom Ave., Bristol, RI.

Date: Wednesday, November 05, 2014

Time: 9:00 AM

QUESTIONS about this solicitation must be emailed and received by the Division of Purchases at doa.purbidinfo@purchasing.ri.gov no later than Friday, November 07, 2014, 5:00 PM, in a Microsoft Word attachment with the corresponding solicitation number. Questions, if any, and responses will be posted on the Division of Purchases website at www.purchasing.ri.gov as an addendum to this solicitation

BID BOND REQUIRED: NO
 YES

PAYMENT AND PERFORMANCE BOND REQUIRED: NO
 YES

SPECIFICATIONS AND PLANS: NO
 YES → See Electronic Solicitation Bidding Information.
Click on the online active "D" link in the "info" column.

Continued onto next page



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RIVIP REGISTRATION: Bidders must be registered vendors through the online Division of Purchases Rhode Island Vendor Information Program at www.purchasing.ri.gov. To register or update information, click on "Vendor Center," then "Vendor Information" from the dropdown menu on the left.

BIDDER CERTIFICATION COVER FORM: Bidders must download (obtainable at www.purchasing.ri.gov), complete, and submit a Bidder Certification Cover Form with each bid proposal.

Solicitation Date: Tuesday, October 28, 2014
Project Description: Furnish and Install 2 Generators-Bristol and Middletown Armorys
Project Location: 106 Airport Access Rd., Middletown, RI and 470 Metacom Ave., Bristol, RI.
Completion Time: TBD
User Agency: Militia of the State
Awarding Authority: The State of Rhode Island Department of Administration
Division of Purchases, 2nd Floor
One Capitol Hill, Providence, RI 02908-5855
Design Agent: n/a
n/a
n/a

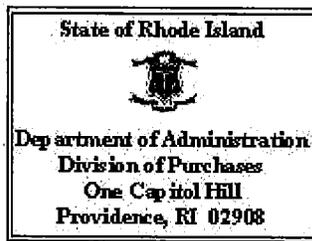
The State of Rhode Island through its, Department of Administration, Division of Purchases, is soliciting bid proposals to perform the work described in the plans and specifications dated October 28, 2014 for the Project in accordance with this solicitation.

Bidders are invited to submit bid proposals to the Division of Purchases by the bid proposal submission deadline.

This solicitation contains, and is subject to the terms and conditions of, the Invitation to Bid, Instructions to Bidders, Bid Preparation Checklist (with applicable forms), Agreement, General Conditions, any Supplemental Conditions, Specifications and Plans, Bidder Certification Cover Form, and Bid Form. The solicitation is available at www.purchasing.ri.gov.

The award of the contract pursuant to this solicitation will be made to the responsive and responsible bidder with the lowest bid price. *The Division of Purchases reserves the right to waive any technicalities in the bid proposals, accept or reject any bid proposal, award a contract in the best interest of the State, or revoke any solicitation.*

Continued onto next page



INVITATION TO BID

Electronic Solicitation Bidding Information

Downloading and Accessing Additional Electronic Solicitation Files

Accessing electronic files on the purchasing website will require Adobe viewer. All bid solicitations that include a "D" in the "Info" column will require WinZip 8.1 software. The WinZip file may contain one or more files. These files may require additional software such as Microsoft Office.

Specifications that have a file for download are marked with a "D" in the "Info" field of the bid search results page located on the Purchasing website. The "D" will indicate an active link to the WinZip file until the bid reaches its opening date. Clicking on the active "D" link will allow you to open or save the WinZip file associated with the bid. Opening the WinZip file will offer you the option of saving to your local computer.

Once saved, you can open the WinZip file and view the files. The individual files can be saved to your computer in a location such as "Desktop" or "My Documents".

Buyer Name: David A. Cadoret, Title: Chief Buyer



State of Rhode Island Department of Administration
Division of Purchases

REVISED
November 20, 2013

NOTICE TO VENDORS

Each bid proposal for a *public works project* must include a "public copy" to be available for public inspection upon the opening of bids. **Bid proposals that do not include a copy for public inspection, will be deemed nonresponsive.**

The public copy must be submitted in .pdf (portable document file) format on a *read-only* CD-R media disc. The disc must include *all of the documents* submitted in response to the solicitation concatenated or merged into one file. The file must be named in the following manner:

BidNumber_DateofBid_VendorName_VendorID.pdf

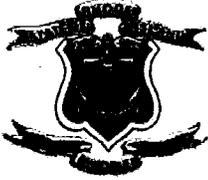
The Bidder Certification Cover Form contains all of the information for the file name. The date of bid must appear as mm-dd-yyyy. The vendor name must appear as one word, with no spaces or punctuation. Underscores must separate the fields.

Example: 7543210_11-08-2013_OceanStateCompanyInc_9867.pdf

The public copy disc must be separately enclosed in a protective cover clearly marked "Public Copy" and include the following information (all available from the Bidder Certification Cover Form): (1) title of solicitation; (2) name of bidder and RIVIP vendor ID number; (3) bid number; and (4) date of bid.

The public copy may redact any trade secrets or commercial or financial information which is of a privileged or confidential nature pursuant to the "Access to Public Records Act," R. I. Gen. Laws §§ 38-2-1 *et seq.*

For further information on how to comply with this statutory requirement, see R. I. Gen. Laws §§ 37-2-18(b) and (j). Also see Procurement Regulation 5.11 accessible at www.purchasing.ri.gov



Request for Quote

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
ONE CAPITOL HILL
PROVIDENCE RI 02908

CREATION DATE : 23-OCT-14
BID NUMBER: 7549095
TITLE: FURNISH AND INSTALL 2 GENERATORS
-BRISTOL AND MIDDLETOWN ARMORYS

BID CLOSING DATE AND TIME:18-NOV-2014 10:30:00

BUYER: Cadoret, David
PHONE #: N/A

B
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O
DOA CONTROLLER
ONE CAPITOL HILL, 4TH FLOOR
SMITH ST
PROVIDENCE, RI 02908
US

S
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P
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O
MS SPECIAL INSTRUCTIONS
SEE BELOW
SEE BELOW, RI N/A
US

Requisition Number:
Note to Bidders: THERE WILL BE A MANDATORY PRE BID. SEE ATTACHED FOR INFORMATION.

Line	Description	Quantity	Unit	Unit Price	Total
1	Furnish & Install (1) 60KW Single Phase 120/240 Volt, 1 phase, 60hz, Industrial Diesel Generator As Per The Attached Specifications. No substitution. Bristol location	1.00	Each		
2	Furnish & Install (1) 60KW Single Phase 120/208 Volt, 1 phase, 60hz, Industrial Diesel Generator As Per The Attached Specifications. No substitution. Middletown location	1.00	Each		

Delivery: _____

Terms of Payment: _____

It is the Vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form must be attached to the front of the offer



State of Rhode Island
Department of Administration / Division of Purchases
One Capitol Hill, Providence, Rhode Island 02908-5855
Tel: (401) 574-8100 Fax: (401) 574-8387

SOLICITATION INFORMATION
BID 7549095

There will be a mandatory pre bid for both locations on Wednesday 11/5/14 beginning at 9am.

The first location for the pre bid will be:

Middletown Armory
106 Airport Access Rd
Middletown, RI.

Upon completion of the pre bid at the first location the second meeting will be held at:

Bristol Armory
470 Metacom Ave.
Bristol, RI

As it is the state's intention to award both locations to one supplier, vendors must sign in at each location.



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SOLICITATION INFORMATION
BID 7549095

BRISTOL LOCATION

STATEMENT OF WORK

SCOPE: Install new 60KW generator (as per attached specifications-NO SUBSTITUTION)

LOCATION: Bristol Armory 470 Metacom Avenue Bristol RI

WORK TO BE ACCOMPLISHED:

PROVIDE AND INSTALL (1) 60 KW 1 PHASE 120/240 VOLT INDUSTRIAL GENERAC DIESEL GENERATOR (LEVEL 2 SOUND ENCLOSURE) AT THE BRISTOL ARMORY.

PROVIDE AND INSTALL (1) 400 AMP SERVICE RATED AUTOMATIC TRANSFER SWITCH ADJACENT TO MAIN SERVICE DISCONNECT.

REWORK EXISTING SERVICE TO ACCOMMODATE NEW ATS, EXTEND CONDUIT AND WIRE TO NEW LOCATION. UNDER GROUND CONDUIT TO BE PVC, RIDGED METAL CONDUIT FOR EXPOSED CONDUIT ABOVE GRADE.

PROVIDE AND INSTALL A REINFORCED CONCRETE PAD ADJACENT TO BUILDING.

-NEW PAD TO BE 12" THICK (3/4" 3000 PSI) CONCRETE REINFORCED WITH 1/2" REBAR 6" ON CENTER.

PROVIDE ALL NECESSARY EXCAVATION. BACKFILL, LOAM AND SEED DISTURBED SITE.

PROVIDE START-UP AND TEST OF GENSET AND ATS.

PRICE INCLUDES DELIVERY OF GENERATOR, RIGGING, NECESSARY ENGINEERING, ALL PERMITS AND INSPECTIONS.

PRICE EXCLUDES DIESEL FUEL.



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SOLICITATION INFORMATION
BID 7549095

BRISTOL LOCATION (CONTINUED)

STATEMENT OF WORK

PERFORMANCE: Submission of the bid by a contractor shall be accepted as prima facie evidence that they have examined the specification and is satisfied with the nature and location of the work and all matters which can in any way affect the work or cost thereof under this contract. The project shall be completed with in 90 days of the date the bid is awarded.

SITE MANAGEMENT: If this project initials any construction methods that will hinder any work or traffic activities, all necessary precautions to elevate any hazards or confusion will be provided by the contractor such as signs, alternate routes, equipment, personnel etc. At no extra expense to the owner.

SAFETY: The area where the work is to be performed is in use at all times, therefore, the contractor will protect his work to minimize any danger to the personnel and equipment that are assigned to those areas.

WORKMANSHIP: All work will be performed by qualified mechanics of the trades involved. All work shall be neat, trim, straight, and secure and finished in all details. Any existing work that is damaged will be repaired at no additional cost to the state.

GUARANTEE: The contractor shall guarantee all work for a period of one (3) year after acceptance.

NOTIFICATION: The construction Supervisor's office shall be notified when work is to begin and shall be kept informed of the contractor's work schedule through the completion of the project, including daily reports to keep track of day to day progress.



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SOLICITATION INFORMATION
BID 7549095

BRISTOL LOCATION (CONTINUED)

STATEMENT OF WORK

APPROVAL OF MATERIAL: specification or manufacture's cuts of material to be used on this project shall be submitted to the construction supervisor for approval prior to installation.

STATE BUILDING CODE: This project is subjected to all rules and regulation both federal and state. The contractor is obligated to obtain all permits needed to start and finish this project. A copy of all permits and building documentation will be forwarded to the construction supervisor.

BREACH OF CONTRACT: Notice is hereby given that the state will take appropriate legal, administrative or contractual action to recover the cost of any damages that may result from the contractor's failure to comply with the provisions of the contract, agreement, purchase order, etc.

ACCESS TO RECORDS: Access to contractor's records, documents or banks must be provided to duly authorized representatives of the State, National Guard Bureau and the Comptroller General for the purpose of making audit examination of excerpts and transactions.

STATE PROVISIONS: In addition to these provisions, the Office of Purchases will issue other instructions that must be followed.

MATERIALS: Unless identified for reuse, all material to be incorporated into the project shall be furnished and installed new by the contractor. The owner reserves the right to approve or disapprove the use of any existing materials by the contractor. The owner all so reserves the right to keep or remove any and all materials associated with this project ex. Metals, Wood, Electronics, ect. The contractor assumes full responsibility for any and all assumptions made concerning the incorporation of existing materials in the new work.



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SOLICITATION INFORMATION
BID 7549095

BRISTOL LOCATION (CONTINUED)

STATEMENT OF WORK

FINAL ACCEPTANCE: The owner will inspect all work prior to the final acceptance and note any deficiencies found so the contractor can rework them at no additional charge to the owner, unless changes were not associated of the original scope of work.



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SOLICITATION INFORMATION
BID 7549095

MIDDLETOWN LOCATION

STATEMENT OF WORK

SCOPE: Install new 60KW generator (as per attached specifications-NO SUBSTITUTION)

LOCATION: Middletown Armory 106 Airport Access Road, Middletown RI 02840

WORK TO BE ACCOMPLISHED:

PROVIDE AND INSTALL (1) 60 KW 3 PHASE 120/208 VOLT INDUSTRIAL GENERAC DIESEL GENERATOR (LEVEL 2 SOUND ENCLOSURE) AT THE MIDDLETOWN ARMORY.

PROVIDE AND INSTALL (1) 400 AMP ASCO SERIES 300 SERVICE RATED AUTOMATIC TRANSFER SWITCH IN PLACE OF EXISTING MANUAL SWITCH (ASCO CAT #3AUS3400C1C11BG).

REWORK EXISTING SERVICE TO ACCOMMODATE NEW ATS, EXTEND CONDUIT AND WIRE TO NEW LOCATION.

EXPAND EXISTING CONCRETE PAD IN PARKING LOT.

-NEW PAD TO BE 12" THICK (3/4" 3000 PSI) CONCRETE REINFORCED WITH 1/2" REBAR 6" ON CENTER.

TRENCH FROM BUILDING TO EXISTING CONCRETE PAD.

UNDER GROUND CONDUIT TO BE PVC, RIDGED METAL CONDUIT WHERE EVER CONDUIT IS RAN ABOVE GRADE.

PROVIDE ALL NECESSARY ASPHALT CUTTING AND REMOVAL, EXCAVATION, NEW PERMANENT ASPHALT REPAIR AND INSTALLATION OF (8) 4" STEEL BALLARD TO PROTECT GENERATOR FROM PARKING LOT TRAFFIC. BACKFILL, LOAM AND SEED DISTURBED SITE AREA.

PROVIDE START-UP AND TEST OF GENSET AND ATS.

PRICE INCLUDES DELIVERY OF GENERATOR, RIGGING, NECESSARY ENGINEERING, ALL PERMITS AND INSPECTIONS.

PRICE EXCLUDES DIESEL FUEL



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GUARANTEE: The contractor shall guarantee all work for a period of one (3) year after acceptance.

NOTIFICATION: The construction Supervisor's office shall be notified when work is to begin and shall be kept informed of the contractor's work schedule through the completion of the project, including daily reports to keep track of day to day progress.



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SOLICITATION INFORMATION
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MIDDLETOWN LOCATION (CONTINUED)

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SOLICITATION INFORMATION
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MIDDLETOWN LOCATION (CONTINUED)

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SOLICITATION INFORMATION
BID 7549095

Information from previous pre bid conference:

1) In the Bristol location, the CT cabinet on the main service does not meet the current requirements of National Grid. There is a junction box before the main switch that has un-metered conductors in it and it is unlocked. Also, the CT's are wired cold sequence. Once we touch this current set up, we may be required to update to the current standards. Ngrid may also require that the CT cabinet and meter be located outdoors and the cabinet will most likely be required to be replaced with a NEMA 3R cabinet, correctly sized. The brief electrical "Statement of Work" included within the bid documents does not depict any of these possibly required upgrades. Please advise how we should carry the work of installing the new service rated ATS, knowing the current issue noted above.

A. THIS PROJECT NEEDS TO COMPLY TO ALL FEDERAL AND STATE CODES. IF THE CURRENT CONDITIONS ARE NOT UP TO ALL STANDARDS, THEN IT'S UP TO THE CONTRACTOR TO BRING ALL DEFICIENCIES ASSOCIATED WITH THE PROJECT UP TO CODE.

2) Please clarify the warranty period. The specifications call for the contractor to provide a 3 year warranty but the Generac specifications provided state a 2 year warranty would be included for the generator equipment?

A. 2 YEAR WARRANTY

3) To confirm, we are to install protective bollards at both locations. Total of (16), (8) at each. Please provide a specification on the bollards. Should they be galvanized? Should they be filled with concrete? How far in the ground should they go and how far above grade should they be? Should they be set in a sonitube below grade? Etc..

A. THE ATTACHMENT SHOULD ANSWER ALL QUESTIONS ON THE BOLLARDS.



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SOLICITATION INFORMATION
BID 7549095

4) It was stated at the Pre-Bid meeting that a remote annunciator is being requested to be installed at each location, at the front entrance of the buildings, adjacent to the fire alarm control panels. Please specify what functions/how many lamps are to be included within the annunciator.

A. GENERAC 5465 IS THE PRODUCT WE ARE LOOKING FOR.

5) It was stated at the Pre-Bid meeting that a One-Line drawing be produced by the contractor for submission to the state electrical inspector, as required. Please confirm if we are to carry the One-Line as drawn by the contractor or is an electrical engineering stamp required with the submission?

A. THE CONTRACTOR IS RESPONSIBLE FOR WHATEVER THE STATE AND LOCAL CODE REQUIRE.

Clarifications:

Middletown has the 400amp transfer switch. Bristol has 225amp transfer switch.

Middletown is 3 phase, not single phase.

Bristol enclosure is Level 2.

No load test necessary. Start up only.

Remote annunciators to be provided at fire alarms boxes in both locations.

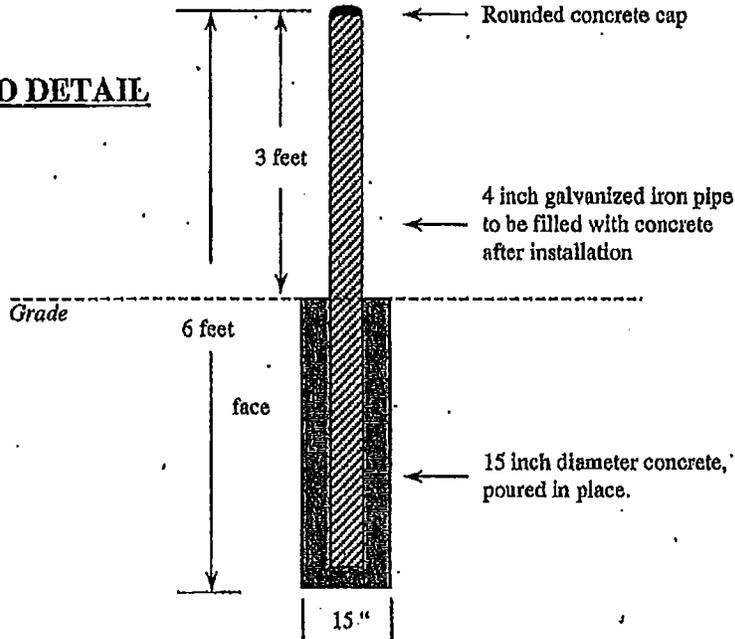
Power turn off can be done on Mondays.

8 bollards to be provided in Bristol as well as per attached.

STANDARD DETAILS & SPECIFICATIONS

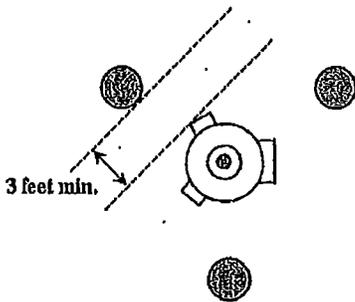
SUBJECT: Specifications for the installation of bollards for private fire protection equipment, generators, and fuel tanks

BOLLARD DETAIL



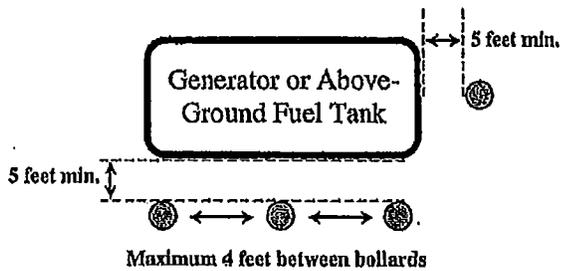
HYDRANT POST LOCATIONS

Bollards shall be three (3) feet minimum from the face of fire hydrant. All orifices shall be unobstructed.



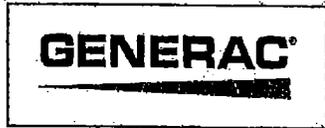
GENERATOR/FUEL TANK POST LOCATIONS

Bollards shall be five (5) feet minimum from the face of fire hydrant.



3000 PSI concrete will be used; bollards will be covered with safety yellow bollard sleeves. Due to location restraints on-site modification to specifications can be authorized by the construction supervisor

MIDDLETOWN LOCATION



Quantity 1 - Generac industrial diesel engine driven generator, turbocharged, 4 cylinder 4.5L engine, consisting of the following features and accessories:

- **SD0060GG174.5D18HBSY3**
- **60 kW Rating**, synchronous alternator, wired for **120/208 VAC 3 Phase, 60 HZ**
- Brushless excitation
- 0.25% voltage regulation
- H-100 Control Panel
 - Meets NFPA 99 and 110 requirements
 - Temp Range -40 to 70 degrees C
 - 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 4-20 ma for minimal interference
 - Programmable I/O
 - Built-in PLC for special applications
 - 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
 - HTS transfer switch function monitoring and control
 - 2-wire start controls for any 2-wire transfer switch
- Electronic governor Frequency regulation, isochronous Steady state regulation +/-0.25%
- **250A UL mainline circuit breaker**
- **Sound attenuated, Level 1 Acoustic enclosure**
 - Industrial Grey Enclosure, powder paint finish
 - Integral critical grade muffler
- **110AH, GRP 31, 925 CCA battery**
 - w/rack installed
- 10A Battery charger-installed
- Battery charging alternator
- Battery cables
- Battery tray

- Fuel shut-off solenoid valve
- Solenoid activated starter motor
- Fuel filter
- Air cleaner and oil filter with internal bypass
- Oil and antifreeze
- Oil and radiator drain extensions
- Vibration Isolators between engine/alternator and base frame
- Standard flex exhaust
- Block heater 1500W
- **24" 189 Gal DW Basetank**
 - STD Fuel Level Sender
 - w/fuel level indicating gauge
 - UL approved
- Emergency Vent
- Engine run relay
- 100dBA Alarm horn
- 120V GFCI & 240V Outlet
- Pad type vibration Isolators
 - Ship Loose
- Standard set of 3 manuals
- CUL Listed
- STD 2-year limited warranty
- EPA/CARB Certified Engine
- SCAQMD Certified Engine
- Standard Electronic Governor
- Two (2) year standard warranty

Quantity 1 - Freight

Quantity 1 - Start-up

Quantity 1 - Service Entrance Rated ATS :

- ASCO 300 Series
 - 120/208V
 - 400A
 - 3Phase
 - NEMA 3R
 - Programmable Exerciser
-

SD060

Industrial Diesel Generator Set

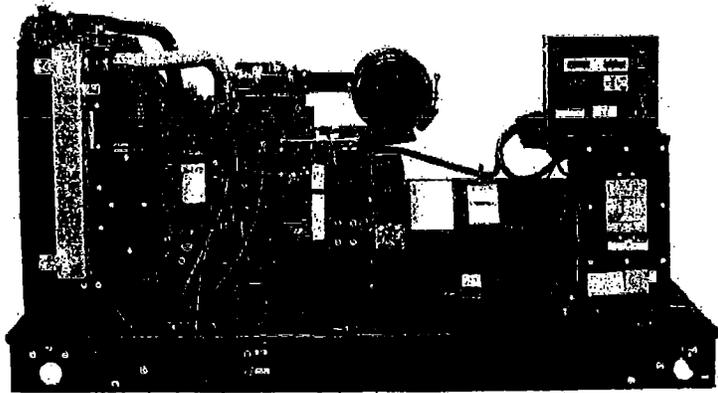
EPA Certified Stationary Emergency

60 kW Diesel

1 of 5

Standby Power Rating
75kVA 60kW 60Hz

Prime Power Rating
68kVA 54kW 60Hz

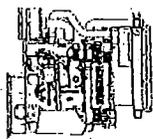
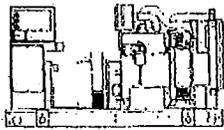


Generator image used for illustration purposes only

*EPA Certified Prime ratings are not available in the U.S. or its Territories for engine model year 2011 and beyond

features

benefits



Generator Set

- | | |
|--------------------------------------|-------------------------------------|
| ● PROTOTYPE & TORSIONALLY TESTED | ▶ PROVIDES A PROVEN UNIT |
| ● UL2200 TESTED | ▶ ENSURES A QUALITY PRODUCT |
| ● RHINOCOAT PAINT SYSTEM | ▶ IMPROVES RESISTANCE TO ELEMENTS |
| ● WIDE RANGE OF ENCLOSURES AND TANKS | ▶ PROVIDES A SINGLE SOURCE SOLUTION |

Engine

- | | |
|---------------------------------------|--------------------------------------|
| ● EPA COMPLIANT | ▶ ENVIRONMENTALLY FRIENDLY |
| ● INDUSTRIAL TESTED, GENERAC APPROVED | ▶ ENSURES INDUSTRIAL STANDARDS |
| ● POWER-MATCHED OUTPUT | ▶ ENGINEERED FOR PERFORMANCE |
| ● INDUSTRIAL GRADE | ▶ IMPROVES LONGEVITY AND RELIABILITY |

Alternator

- | | |
|-----------------------------------|-----------------------------------|
| ● TWO-THIRDS PITCH | ▶ ELIMINATES HARMFUL 3RD HARMONIC |
| ● LAYER WOUND ROTOR & STATOR | ▶ IMPROVES COOLING |
| ● CLASS H MATERIALS | ▶ HEAT-TOLERANT DESIGN |
| ● DIGITAL 3-PHASE VOLTAGE CONTROL | ▶ FAST AND ACCURATE RESPONSE |

Controls

- | | |
|---|-----------------------------------|
| ● ENCAPSULATED BOARD W/ SEALED HARNESS | ▶ EASY, AFFORDABLE REPLACEMENT |
| ● 4-20mA VOLTAGE-TO-CURRENT SENSORS | ▶ NOISE RESISTANT 24/7 MONITORING |
| ● SURFACE-MOUNT TECHNOLOGY | ▶ PROVIDES VIBRATION RESISTANCE |
| ● ADVANCED DIAGNOSTICS & COMMUNICATIONS | ▶ HARDENED RELIABILITY |

primary codes and standards



SD060

application and engineering data

ENGINE SPECIFICATIONS

General

Make	Ineco / FPT
EPA Emissions Compliance	Stallory Emergency
EPA Emissions Reference	See Emissions Data Sheet
Cylinder #	4
Type	Diesel
Displacement - L (cu. in.)	4.5 (27.4)
Bore - mm (in.)	105 (4.1)
Stroke - mm (in.)	132 (5.2)
Compression Ratio	17.5:1
Intake Air Method	Turbocharged
Cylinder Head Type	2 Valve
Piston Type	Aluminum
Crankshaft Type	Forged Steel
Engine Block Type	Cast Iron / Wet Sleeve

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)	13.6 (14.4)

Cooling System

Cooling System Type	Closed
Water Pump Flow	Belt Driven Centrifugal
Fan Type	Pusher
Fan Blade Number	2538
Fan Diameter mm (in.)	26
Coolant Heater Wattage	1500
Coolant Heater Standard Voltage	120

Fuel System

Fuel Type*	Ultra Low Sulfur Diesel Fuel
Fuel Specifications	ASTM
Fuel Filtering (microns)	5
Fuel Inject Pump Make	Stanadyne
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Engine Type	Direct Injection
Fuel Supply Line - mm (in.)	1/2" NPT
Fuel Return Line - mm (in.)	1/4" NPT

Engine Electrical System

System Voltage	12VDC
Battery Charging Alternator	Std
Battery Size (at 0°C)	995 CCA
Battery Group	31
Battery Voltage	12 Volt DC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	390 mm Generac
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	< 5%
Telephone Interference Factor (TIF)	< 50
Standard Excitation	Synchronous Brushless
Bearings	One-Pre Lubed & Sealed
Coupling	Direct, Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes

Voltage Regulator Type	Digital
Number of Sensed Phases	3
Regulation Accuracy (Steady State)	± 0.25%

CODES AND STANDARDS COMPLIANCE (WHERE APPLICABLE)

NFPA 99	BS5514
NFPA 110	SAE J1349
ISO 8528-5	DIN6271
ISO 1708A.5	IEEE C62.41 TESTING
ISO 3046	NEMA ICS 1

Rating Definitions:

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability. (Max. load factor = 70%)

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. (Max. load factor = 80%) A 10% overload capacity is available for 1 out of every 12 hours.

SD060

operating data (60Hz)

POWER RATINGS (KW)

Single-Phase 120/240VAC @1.0pf
 Three-Phase 120/208VAC @0.8pf
 Three-Phase 120/240VAC @0.8pf
 Three-Phase 277/480VAC @0.8pf
 Three-Phase 346/600VAC @0.8pf

STANDBY		PRIME	
60 kW	Amps: 250	44 kW	Amps: 225
80 kW	Amps: 208	44 kW	Amps: 187
60 kW	Amps: 180	44 kW	Amps: 162
60 kW	Amps: 90	44 kW	Amps: 81
60 kW	Amps: 72	44 kW	Amps: 65

STARTING CAPABILITIES (sKVA)

Alternator	kW	sKVA vs. Voltage Dip											
		480VAC						208/240VAC					
		10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	80	42	63	83	104	125	146	32	47	62	78	94	110
Upsize-1	80	59	88	117	147	176	205	44	66	88	110	132	154
Upsize 2	100	79	118	157	197	236	275	59	89	118	148	177	206

FUEL

		Fuel Consumption Rates*					
		STANDBY			PRIME		
Fuel Pump Lift - in (mm)		Percent Load	gph	lph	Percent Load	gph	lph
36 (900)		25%	1.4	5.3	25%	1.3	4.9
		50%	2.7	10.2	50%	2.4	9.1
		75%	3.8	14.4	75%	3.4	12.9
		100%	4.8	18.2	100%	4.4	16.7

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

COOLING

		STANDBY	PRIME
Coolant Flow per Minute	gpm (lpm)	32.7 (123.8)	32.7 (123.8)
Heat Rejection to Coolant	BTU/hr	123,000	123,000
Inlet Air	cfm (m3/min)	6,360 (180)	6,360 (180)
Max. Operating Radiator Air Temp	F° (C°)	122 (50)	122 (50)
Max. Operating Ambient Temperature	F° (C°)	104 (40)	104 (40)
Coolant System Capacity	gal (L)	(4.5) 17.44	(4.5) 17.44
Maximum Radiator Backpressure	in H ₂ O	1.5	1.5

COMBUSTION AIR REQUIREMENTS

		STANDBY	PRIME
Flow at Rated Power	cfm (m3/min)	247 (7.00)	222 (6.30)

ENGINE

		STANDBY	PRIME
Rated Engine Speed	rpm	1800	1800
Horsepower at Rated kW**	hp	93	84
Piston Speed	ft/min	1559 (475)	1559 (475)
BMEP	psi	154	143

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

EXHAUST

		STANDBY	PRIME
Exhaust Flow (Rated Output)	cfm (m3/min)	534 (15.1)	502 (14.2)
Max. Backpressure (Post Silencer)	inHg (Kpa)	1.5 (5.1)	1.5 (5.1)
Exhaust Temp (Rated Output)	F° (C°)	930 (498.8)	857 (459)
Exhaust Outlet Size (Open Set)	NPT (male)	3.0	3.0

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.

SD060

standard features and options

GENERATOR SET

<input checked="" type="radio"/> Genset Vibration Isolation	Std
<input type="radio"/> IBC Seismic Certified/Seismic Rated Vibration Isolators	Opt
<input type="radio"/> Extended warranty	Opt
<input type="radio"/> Gen-Link Communications Software	Opt
<input type="radio"/> Steel Enclosure	Opt
<input type="radio"/> Aluminum Enclosure	Opt

ENGINE SYSTEM

General

<input checked="" type="radio"/> Oil Drain Extension	Std
<input type="radio"/> Oil Make-Up System	Opt
<input type="radio"/> Oil Heater	Opt
<input checked="" type="radio"/> Air cleaner	Std
<input checked="" type="radio"/> Fan guard	Std
<input checked="" type="radio"/> Radiator duct adapter	Std

Fuel System

<input checked="" type="radio"/> Fuel lockoff solenoid	Std
<input checked="" type="radio"/> Secondary fuel filter	Std
<input checked="" type="radio"/> Stainless steel flexible exhaust connection	Std
<input checked="" type="radio"/> Industrial Exhaust Silencer	Std
<input type="radio"/> Critical Exhaust Silencer	Opt
<input type="radio"/> Flexible fuel lines	Opt
<input type="radio"/> Primary fuel filter	Opt
<input type="radio"/> Single Wall Tank (Export Only)	-
<input type="radio"/> UL 142 Fuel Tank	Opt

Cooling System

<input type="radio"/> 120VAC Coolant Heater	Opt
<input type="radio"/> 208VAC Coolant Heater	Opt
<input type="radio"/> 240VAC Coolant Heater	Opt
<input type="radio"/> Other Coolant Heater	-
<input checked="" type="radio"/> Closed Coolant Recovery System	Std
<input checked="" type="radio"/> UV/Ozone resistant hoses	Std
<input checked="" type="radio"/> Factory-installed Radiator	Std
<input checked="" type="radio"/> Radiator Drain Extension	Std

Engine Electrical System

<input checked="" type="radio"/> Battery charging alternator	Std
<input checked="" type="radio"/> Battery cables	Std
<input checked="" type="radio"/> Battery tray	Std
<input type="radio"/> Battery box	Opt
<input type="radio"/> Battery heater	Opt
<input checked="" type="radio"/> Solenoid activated starter motor	Std
<input type="radio"/> 2.5A UL battery charger	Opt
<input type="radio"/> 10A UL float/equalize battery charger	Opt
<input checked="" type="radio"/> Rubber-booted engine electrical connections	Std

ALTERNATOR SYSTEM

<input checked="" type="radio"/> UL2200 GENprotect™	Std
<input type="radio"/> Main Line Circuit Breaker	Opt
<input type="radio"/> 2nd Circuit Breaker	Opt
<input type="radio"/> 3rd Circuit Breaker	-
<input type="radio"/> Alternator Upsizing	Opt
<input type="radio"/> Anti-Condensation Heater	Opt
<input type="radio"/> Tropical coating	Opt
<input type="radio"/> Permanent Magnet Generator	Opt

CONTROL SYSTEM

Control Panel

<input checked="" type="radio"/> Digital H Control Panel - Dual 4x20 Display	Std
<input type="radio"/> Digital G-100 Control Panel - Touchscreen	na
<input type="radio"/> Digital G-200 Paralleling Control Panel - Touchscreen	na
<input checked="" type="radio"/> Programmable Crank Limiter	Std
<input type="radio"/> 21-Light Remote Annunciator	Opt
<input type="radio"/> Remote Relay Panel (8 or 16)	Opt
<input checked="" type="radio"/> 7-Day Programmable Exerciser	Std
<input checked="" type="radio"/> Special Applications Programmable PLC	Std
<input checked="" type="radio"/> RS-232	Std
<input checked="" type="radio"/> RS-485	Std
<input checked="" type="radio"/> All-Phase Sensing DVR	Std
<input checked="" type="radio"/> Full System Status	Std
<input checked="" type="radio"/> Utility Monitoring (Req. H-Transfer Switch)	Std
<input checked="" type="radio"/> 2-Wire Start Compatible	Std
<input checked="" type="radio"/> Power Output (kW)	Std
<input checked="" type="radio"/> Power Factor	Std
<input checked="" type="radio"/> Reactive Power	Std
<input checked="" type="radio"/> All phase AC Voltage	Std
<input checked="" type="radio"/> All phase Currents	Std
<input checked="" type="radio"/> Oil Pressure	Std
<input checked="" type="radio"/> Coolant Temperature	Std
<input checked="" type="radio"/> Coolant Level	Std
<input type="radio"/> Oil Temperature	Opt
<input checked="" type="radio"/> Fuel Pressure	Std
<input checked="" type="radio"/> Engine Speed	Std
<input checked="" type="radio"/> Battery Voltage	Std
<input checked="" type="radio"/> Frequency	Std
<input checked="" type="radio"/> Date/Time Fault History (Event Log)	Std
<input type="radio"/> Low-Speed Exercise	-
<input checked="" type="radio"/> Isochronous Governor Control	Std
<input checked="" type="radio"/> -40deg C - 70deg C Operation	Std
<input checked="" type="radio"/> Waterproof Plug-In Connectors	Std
<input checked="" type="radio"/> Audible Alarms and Shutdowns	Std
<input checked="" type="radio"/> Not in Auto (Flashing Light)	Std
<input checked="" type="radio"/> Auto/Off/Manual Switch	Std
<input checked="" type="radio"/> E-Stop (Red Mushroom-Type)	Std
<input type="radio"/> Remote E-Stop (Break Glass-Type, Surface Mount)	Opt
<input type="radio"/> Remote E-Stop (Red Mushroom-Type, Surface Mount)	Opt
<input type="radio"/> Remote E-Stop (Red Mushroom-Type, Flush Mount)	Opt
<input checked="" type="radio"/> NFPA 110 Level I and II (Programmable)	Std
<input checked="" type="radio"/> Remote Communication - RS232	Std
<input type="radio"/> Remote Communication - Modem	Opt
<input type="radio"/> Remote Communication - Ethernet	Opt
<input type="radio"/> 10A Run Relay	Opt

Alarms (Programmable Tolerances, Pre-Alarms and Shutdowns)

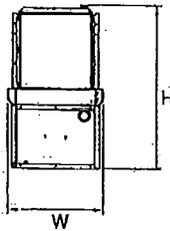
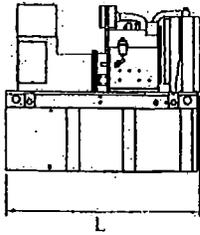
<input type="radio"/> Low Fuel	Opt
<input checked="" type="radio"/> Oil Pressure (Pre-programmed Low Pressure Shutdown)	Std
<input checked="" type="radio"/> Coolant Temperature (Pre-programmed High Temp Shutdown)	Std
<input checked="" type="radio"/> Coolant Level (Pre-programmed Low Level Shutdown)	Std
<input type="radio"/> Oil Temperature	Opt
<input checked="" type="radio"/> Engine Speed (Pre-programmed Overspeed Shutdown)	Std
<input checked="" type="radio"/> Voltage (Pre-programmed Overvoltage Shutdown)	Std
<input checked="" type="radio"/> Battery Voltage	Std

Other Options

<input type="radio"/>	
<input type="radio"/>	
<input type="radio"/>	

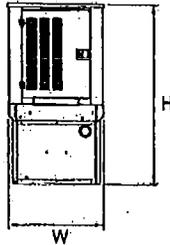
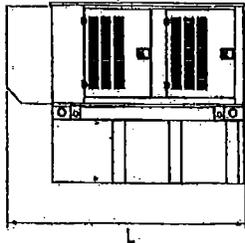
SD060

dimensions, weights and sound levels



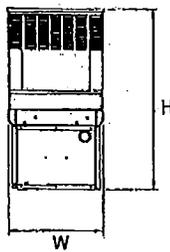
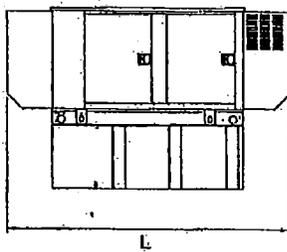
OPEN SET

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dba*
NO TANK	-	93	40	49	2425	86.3
16	79	93	40	62	2947	
39	189	93	40	74	3183	
63	300	93	40	86	3407	
73	350	110	40	86	3809	
106	510	117	47	86	3790	
123	589	128	49	86	4269	



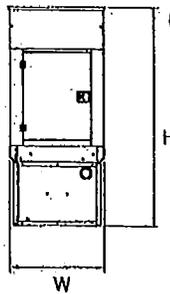
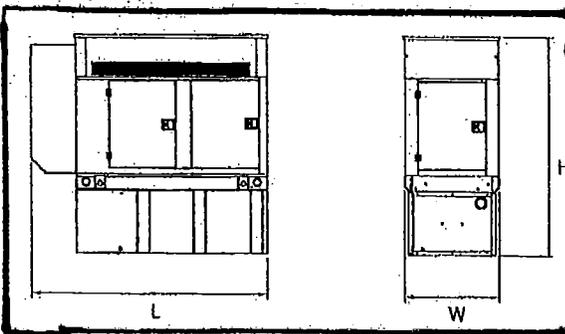
WEATHERPROOF ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dba*
NO TANK	-	112	41	56	2850	80.5
16	79	112	41	69	3372	
39	189	112	41	81	3608	
63	300	112	41	93	3832	
73	350	112	41	93	4234	
106	510	117	47	93	4215	
123	589	128	49	93	4694	



LEVEL 1 SOUND ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dba*
NO TANK	-	130	41	56	2875	74.7
16	79	130	41	69	3397	
39	189	130	41	81	3633	
63	300	130	41	93	3857	
73	350	130	41	93	4259	
106	510	130	47	93	4240	
123	589	130	49	93	4719	



LEVEL 2 SOUND ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dba*
NO TANK	-	112	41	69	3050	71.6
16	79	112	41	82	3572	
39	189	112	41	94	3808	
63	300	112	41	106	4032	
73	350	112	41	106	4434	
106	510	117	47	106	4415	
123	589	128	49	106	4894	

*All measurements are approximate and for estimation purposes only. Weights are without fuel in tank. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.

Tank Options

- MDEQ OPT
- Florida DERM/DEP OPT
- Chicago Fire Code OPT
- IFCC Certification CALL
- ULC CALL

Other Custom Options Available from your Generac Industrial Power Dealer

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

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.

ASCO SERIES 300SE Power Transfer Switch

The ASCO Service Entrance Power Transfer Switch combines automatic power switching with the necessary disconnecting, grounding, and bonding required for use as service entrance equipment. The power transfer switch meets all National Electrical Code requirements for service entrance use. Transfer switches generally are installed at facilities that have a single utility feed and a single emergency power source.

ASCO SERIES 300SE products use two types of construction.

Products 400 amperes or less, utilize a single enclosure including a service (utility source) disconnect circuit breaker, as well as the power transfer switch, grounding and bonding provisions.

Products 600 amperes and above, utilize a multi-section switchboard construction including a service equipment section containing the service (utility source) disconnect circuit breaker, grounding, and bonding provisions. A second section contains the power transfer switch.

Product Features:

- Suitable for use as service entrance equipment. Listed to UL 891 (standard for switchboards) for 600 - 3000 amps, sizes and UL 1008 (standard for panel-boards) for 70 - 400 amps.
- Automatic Transfer Switch is listed to UL 1008 for total system loads
- Sizes available from 70 - 3000 amps, 600 VAC, 50 or 60 Hz, single or three phase
- Silver plated copper ground and neutral bus solderless screw type terminals
- Ground fault trip protection provided on sizes 1000 amps and above
- Available with solid or switched neutral

600 - 3000 Amp Construction

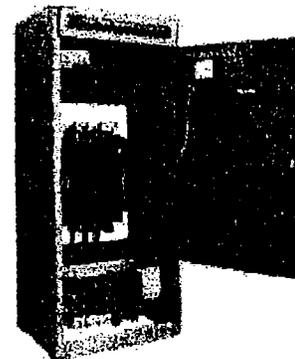
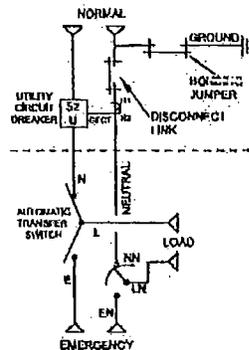


Fig. 16: ASCO SERIES 300 SE Rated 800 amperes Type 1 enclosure with Service Entrance Equipment

70 - 400 Amp Construction

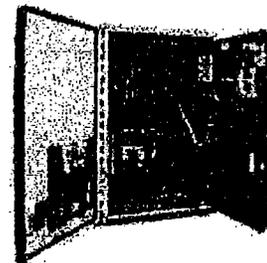
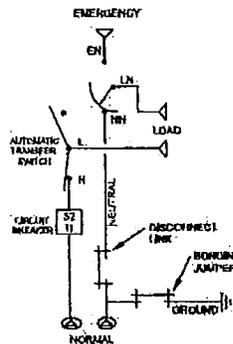


Fig. 17: ASCO SERIES 300 SE rated 200 amperes in Type 1 enclosure with single source breakers

ASCO SERIES 300SE Transfer Switch Ordering Information

To order an ASCO SERIES 300SE Power Transfer Switch, complete the following catalog number:

3AUS + B + 1 + 400 + N + 1 + X + C + 11CD + 240V/60											
Product	Neutral Code	Phase Poles	Amperes Continuous Rating	Voltage Code		Controller	Options	Enclosure		Accessories	Volt & Freq
				A	B			Blank	Open Type		
3AUS	B ¹ Switched Neutral	2 poles, 1Ø 3 poles, 3Ø	70, 100, 150, 200 ² , 225 ⁴ , 250, 400, 600, 800, 1000, 1200, 1600, 2000 2500, 3000	A ¹ 115 B ¹ 120 C 208 D 220 E 230 F 240 H 380 J 400 K 415 L 440 M 460 N 480 Q 575 R 600	1	Insert "X" If optional accessories are required	C F G H L M N P R	Type 1 (Standard) Type 3R Type 4 ² Type 4X Type 12 ² Type 3R Secure Type 4 Secure Type 4X ⁶ Secure Double Door SS Type 3RX ^{7,8} Secure Double Door SS	118G Programmable Engine Excitator 14AA/14BA Auxiliary Contacts (2 sets) 44G Strip Heater w/Thermostat 72A Control Module 72E Connectivity Module 73A Surge Suppressor	This information is necessary to allow correct control settings prior to shipment	

1. 200, 225 amp rated only for use with copper cable only.
 2. Available 70-1000 ampacity. Use Type 3R for 1200-3000 amp applications.
 3. 115-120 volt available 150-400 amps only.
 4. A solid neutral is standard on 3AUS.
 5. For switch sizes 70-225 amperes only.

6. 200, 225 amp rated only for use with copper cable only.
 7. Type 316 Stainless Steel is standard. It provides an improved reduction in corrosion of salt and some chemicals. It is the preferred choice for marine environments.
 8. Available only on switches rated 1200, 2000, 2600, and 3000 Amps.

ASCO[®] SERIES 300SE Transfer Switch Dimensions and Shipping Weights

UL Type 1 Enclosure⁴

Switch Rating Amps	Phase Poles	Neutral Code	Dimensions, In. (mm)			Approx. Shipping Weight Lb. (kg)
			Width	Height	Depth	
70, 100, 150, 200, 225	2	STD	36.5 (927)	48.5 (1232)	13.25 (337)	400 (185)
	2	B	36.5 (927)	48.5 (1232)	13.25 (337)	408 (188)
	3	STD	36.5 (927)	48.5 (1232)	13.25 (337)	408 (188)
	3	B	36.5 (927)	48.5 (1232)	13.25 (337)	416 (192)
250, 400	2	STD	36.5 (927)	48.5 (1232)	13.25 (337)	400 (185)
	2	C	36.5 (927)	48.5 (1232)	13.25 (337)	408 (188)
	3	STD	36.5 (927)	48.5 (1232)	13.25 (337)	408 (188)
	3	C	36.5 (927)	48.5 (1232)	13.25 (337)	416 (192)
600 ¹ , 800 ¹	2	STD	38 (965)	91 (2311)	28 (711)	800 (370)
	2	B	38 (965)	91 (2311)	28 (711)	820 (378)
	3	STD	38 (965)	91 (2311)	28 (711)	820 (378)
	3	B	38 (965)	91 (2311)	28 (711)	846 (390)
1000 ¹ , 1200 ¹	2	STD	38 (965)	91 (2311)	48 (1218)	1085 (501)
	2	B	38 (965)	91 (2311)	48 (1218)	1105 (510)
	3	STD	38 (965)	91 (2311)	48 (1218)	1105 (510)
	3	B	38 (965)	91 (2311)	48 (1218)	1134 (523)
1600 ¹ , 2000 ¹	3	STD	38 (965)	91 (2311)	48 (1218)	2590 (1198)
	3	B	38 (965)	91 (2311)	48 (1218)	2640 (1218)
2500 ¹ , 3000 ¹	3	STD	38 (965)	91 (2311)	72 (1829)	4590 (2118)
	3	B	38 (965)	91 (2311)	72 (1829)	4655 (2148)

UL Type 3R Enclosure⁴

Switch Rating Amps	Phase Poles	Neutral Code	Dimensions, In. (mm)			Approx. Shipping Weight Lb. (kg)
			Width	Height	Depth	
70, 100, 150, 200, 225 must specify	2	STD	36(914)	48(1219)	16(406)	180(83)
	2	B	36(914)	48(1219)	16(406)	188(87)
	3	STD	36(914)	48(1219)	16(406)	188(87)
	3	B	36(914)	48(1219)	16(406)	196(90)
250, 400	2	STD	36(914)	48(1219)	16(406)	440(203)
	2	C	36(914)	48(1219)	16(406)	448(207)
	3	STD	36(914)	48(1219)	16(406)	448(207)
	3	C	36(914)	48(1219)	16(406)	485(225)
600 ¹ , 800 ¹	2	STD	41(1041)	95.5(2426)	34(864)	990(458)
	2	B	41(1041)	95.5(2426)	34(864)	1010(467)
	3	STD	41(1041)	95.5(2426)	34(864)	1010(467)
	3	B	41(1041)	95.5(2426)	34(864)	1036(479)
1000 ¹ , 1200 ¹	2	STD	41(1041)	95.5(2426)	62(1575)	1305(604)
	2	B	41(1041)	95.5(2426)	62(1575)	1325(613)
	3	STD	41(1041)	95.5(2426)	62(1575)	1325(613)
	3	B	41(1041)	95.5(2426)	62(1575)	1354(626)
1600 ¹ , 2000 ¹	3	STD	41(1041)	95.5(2426)	62(1575)	2890(1337)
	3	B	41(1041)	95.5(2426)	62(1575)	2940(1360)
2500 ¹ , 3000 ¹	3	STD	41(1041)	96(2438)	85(2159)	5350(2474)
	3	B	41(1041)	96(2438)	85(2159)	5400(2500)

- Notes: 1. Unit is designed for top and bottom cable entry for all services and load.
 2. Enclosures for 600 - 3000 amps are freestanding.
 3. When temperatures below 32° F can be experienced, special precautions should be taken, such as the inclusion of strip heaters, to prevent condensation and freezing of this condensation. This is

- particularly important when environmental enclosures (Type 3R, 4 & 12) are ordered for installation outdoors. See Optional Accessories page for space heater options (acc. 44G).
 4. Dimensional data is approximate and subject to change. Certified dimensions available upon request.

Extended Warranties for SERIES 300SE Transfer Switches

Catalog No.	Description
2EAW300SE	Two-Year Extended Warranty (Parts & Labor)
3EXW300SE	Three-Year Extended Warranty (Parts & Labor)
4EXW300SE	Four-Year Extended Warranty (Parts & Labor)
5EXW300SE	Five-Year Extended Warranty (Parts & Labor)

SERIES 300SE AIC Rating

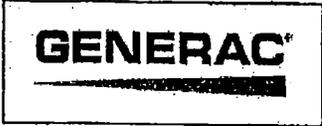
Switch Rating	AIC Rating	Voltage
70, 100, 150, 200, 225	25,000	480
250, 400	35,000	480
600	50,000	480
800, 1000, 1200, 1600, 2000	65,000	480
2500, 3000	100,000	700

SERIES 300SE External Power Connections Sizes UL-Listed Solderless Screw-Type Terminals

Switch Rating	Ranges of Al-Cu Wire Sizes (Unless Specified Copper Only)
70, 100, 150, 200 ¹ , 225 ¹	One #14 to 4/0 AWG
250, 400	Two 1/0 AWG to 250 MCM or One #4 AWG to 600 MCM
600	Two 1/0 AWG to 600 MCM
800, 1000, 1200	Four 1/0 to 600 MCM
1600, 2000	Six 1/0 to 600 MCM
2500	Twelve 3/0 to 600 MCM
3000	Twelve 3/0 to 600 MCM

Note: All Series 300SE switches are furnished with a solid neutral plate (unless specified neutral configuration is specified) and terminal lug * 200 and 225 amp rated switch for use with copper cable only.

BRISTOL LOCATION



GENERAC

Quantity 1 - Generac industrial diesel engine driven generator, turbocharged, 4 cylinder 4.5L engine, consisting of the following features and accessories:

- **SD0060AG174.5D18HBSY3**
- **60 kW Rating**, synchronous alternator, wired for **120/240 VAC 1 Phase, 60 HZ**
- Brushless excitation
- 0.25% voltage regulation
- **H-100 Control Panel**
 - Meets NFPA 99 and 110 requirements
 - Temp Range -40 to 70 degrees C
 - 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 4-20 ma for minimal interference
 - Programmable I/O
 - Built-in PLC for special applications
 - 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
 - HTS transfer switch function monitoring and control
 - 2-wire start controls for any 2-wire transfer switch
- Electronic governor Frequency regulation, Isochronous Steady state regulation +/-0.25%
- **225A UL CB, 80% Rated**
 - Thermal/Mag, LH
- **Sound attenuated, Level 1 Acoustic enclosure**
 - Industrial Grey Enclosure, powder paint finish
 - Integral critical grade muffler
- **110AH, GRP 31, 925 CCA battery**
 - w/rack installed
- **10A Battery charger-Installed**
- **Battery charging alternator**
- **Battery cables**

- Battery tray
- Fuel shut-off solenoid valve
- Solenoid activated starter motor
- Fuel filter
- Air cleaner and oil filter with internal bypass
- Oil and antifreeze
- Oil and radiator drain extensions
- Vibration isolators between engine/alternator and base frame
- Standard flex exhaust
- Block heater 1500W
- **24" 189 Gal DW Basetank**
 - STD Fuel Level Sender
 - w/fuel level indicating gauge
 - UL approved.
- Emergency Vent
- Engine run relay
- 100dBA Alarm horn
- 120V GFCI & 240V Outlet
- Pad type vibration isolators
 - Ship Loose
- Standard set of 3 manuals
- CUL Listed
- STD 2-year limited warranty
- EPA/CARB Certified Engine
- SCAQMD Certified Engine
- Standard Electronic Governor
- Two (2) year standard warranty

Quantity 1 - Start-up

Quantity 1 - Freight

Quantity 1 - Service Entrance Rated ATS :

- ASCO 300 Series
- 120/240V
- 225A
- Single Phase
- NEMA 3R
- Programmable Exerciser

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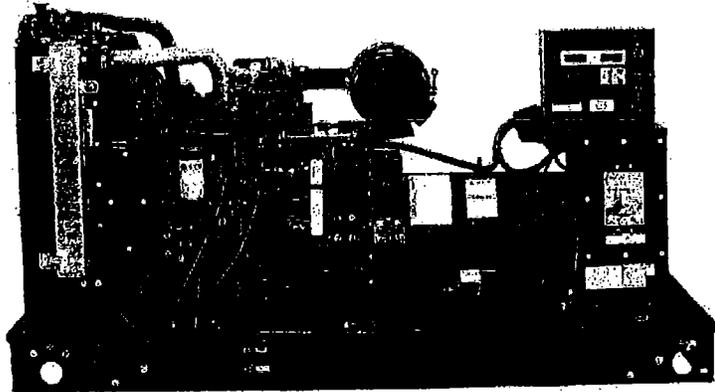
Industrial Diesel Generator Set

EPA Certified Stationary Emergency

1 of 5

Standby Power Rating
75kVA 60kW 60Hz

Prime Power Rating
68kVA 54kW 60Hz

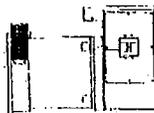
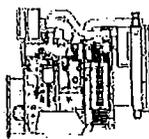
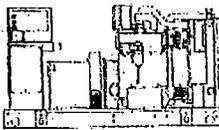


Generator image used for illustration purposes only

*EPA Certified Prime ratings are not available in the U.S. or its Territories for engine model year 2011 and beyond

features

benefits



Generator Set

- | | |
|--------------------------------------|-------------------------------------|
| • PROTOTYPE & TORSIONALLY TESTED | › PROVIDES A PROVEN UNIT |
| • UL2200 TESTED | › ENSURES A QUALITY PRODUCT |
| • RHINOCOAT PAINT SYSTEM | › IMPROVES RESISTANCE TO ELEMENTS |
| • WIDE RANGE OF ENCLOSURES AND TANKS | › PROVIDES A SINGLE SOURCE SOLUTION |

Engine

- | | |
|---------------------------------------|--------------------------------------|
| • EPA COMPLIANT | › ENVIRONMENTALLY FRIENDLY |
| • INDUSTRIAL TESTED, GENERAC APPROVED | › ENSURES INDUSTRIAL STANDARDS |
| • POWER-MATCHED OUTPUT | › ENGINEERED FOR PERFORMANCE |
| • INDUSTRIAL GRADE | › IMPROVES LONGEVITY AND RELIABILITY |

Alternator

- | | |
|-----------------------------------|-----------------------------------|
| • TWO-THIRDS PITCH | › ELIMINATES HARMFUL 3RD HARMONIC |
| • LAYER WOUND ROTOR & STATOR | › IMPROVES COOLING |
| • CLASS H MATERIALS | › HEAT TOLERANT DESIGN |
| • DIGITAL 3-PHASE VOLTAGE CONTROL | › FAST AND ACCURATE RESPONSE |

Controls

- | | |
|---|-----------------------------------|
| • ENCAPSULATED BOARD W/ SEALED HARNESS | › EASY, AFFORDABLE REPLACEMENT |
| • 4-20mA VOLTAGE-TO-CURRENT SENSORS | › NOISE RESISTANT 24/7 MONITORING |
| • SURFACE-MOUNT TECHNOLOGY | › PROVIDES VIBRATION RESISTANCE |
| • ADVANCED DIAGNOSTICS & COMMUNICATIONS | › HARDENED RELIABILITY |

primary codes and standards



SD060

application and engineering data

ENGINE SPECIFICATIONS

General

Make	Iveco / FPT
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emissions Data Sheet
Cylinder #	4
Type	Diesel
Displacement - L (cu. in.)	4.5 (274)
Bore - mm (in.)	105 (4.1)
Stroke - mm (in.)	132 (5.2)
Compression Ratio	17.5:1
Intake Air Method	Turbocharged
Cylinder Head Type	2 Valve
Piston Type	Aluminum
Crankshaft Type	Forged Steel
Engine Block Type	Cast Iron / Wet Sleeve

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)	13.6 (14.4)

Cooling System

Cooling System Type	Closed
Water Pump Flow	Belt Driven Centrifugal
Fan Type	Pusher
Fan Blade Number	2536
Fan Diameter mm (in.)	26
Coolant Heater Wattage	1500
Coolant Heater Standard Voltage	120

Fuel System

Fuel Type*	Ultra Low Sulfur Diesel Fuel
Fuel Specifications	ASTM
Fuel Filtering (microns)	5
Fuel Inject Pump Make	Stanadyne
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Engine Type	Direct Injection
Fuel Supply Line - mm (in.)	1/2" NPT
Fuel Return Line - mm (in.)	1/4" NPT

Engine Electrical System

System Voltage	12VDC
Battery Charging Alternator	Std
Battery Size (at 0°C)	995 CCA
Battery Group	31
Battery Voltage	12 Volt DC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	390 mm Generac
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	< 5%
Telephone Interference Factor (TIF)	< 50
Standard Excitation	Synchronous Brushless
Bearings	One-Pre Lubed & Sealed
Coupling	Direct, Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes

Voltage Regulator Type	Digital
Number of Sensed Phases	3
Regulation Accuracy (Steady State)	± 0.25%

CODES AND STANDARDS COMPLIANCE (WHERE APPLICABLE)

NFPA 99	BS514
NFPA 110	SAE J1349
ISO 8528-5	DIN6271
ISO 1708A.5	IEEE C62.41 TESTING
ISO 3046	NEMA ICS 1

Rating Definitions:

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability. (Max. load factor = 70%)

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. (Max. load factor = 80%) A 10% overload capacity is available for 1 out of every 12 hours.

SD060

operating data (60Hz)

POWER RATINGS (kW)

	STANDBY		PRIME	
Single-Phase 120/240VAC @1.0pf	60 kW	Amps: 250	44 kW	Amps: 225
Three-Phase 120/208VAC @0.8pf	60 kW	Amps: 208	44 kW	Amps: 187
Three-Phase 120/240VAC @0.8pf	60 kW	Amps: 180	44 kW	Amps: 162
Three-Phase 277/480VAC @0.8pf	60 kW	Amps: 90	44 kW	Amps: 81
Three-Phase 346/600VAC @0.8pf	60 kW	Amps: 72	44 kW	Amps: 65

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

Alternator	kW	480VAC						208/240VAC					
		10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	60	42	63	83	104	125	146	32	47	62	78	94	110
Upsize 1	80	59	88	117	147	176	205	44	66	88	110	132	154
Upsize 2	100	79	118	157	197	236	275	59	89	118	148	177	208

FUEL

Fuel Consumption Rates*

	STANDBY			PRIME		
	Percent Load	gph	lph	Percent Load	gph	lph
Fuel Pump Lift - in (mm)						
36 (900)						
Total Fuel Pump Flow (Combustion + Return)						
13.6 gph						
25%	1.4	5.3		25%	1.3	4.9
50%	2.7	10.2		50%	2.4	9.1
75%	3.8	14.4		75%	3.4	12.9
100%	4.8	18.2		100%	4.4	16.7

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

COOLING

NOTE: approx 37 Hours w/ Full Tank

		STANDBY	PRIME
Coolant Flow per Minute	gpm (lpm)	32.7 (123.8)	32.7 (123.8)
Heat Rejection to Coolant	BTU/hr	123,000	123,000
Inlet Air	cfm (m3/min)	6,360 (180)	6,360 (180)
Max. Operating Radiator Air Temp	F° (C°)	122 (50)	122 (50)
Max. Operating Ambient Temperature	F° (C°)	104 (40)	104 (40)
Coolant System Capacity	gal (L)	(4.5) 17.44	(4.5) 17.44
Maximum Radiator Backpressure	In H ₂ O	1.5	1.5

COMBUSTION AIR REQUIREMENTS

	STANDBY	PRIME
Flow at Rated Power cfm (m3/min)	247 (7.00)	222 (6.30)

ENGINE

		STANDBY	PRIME
Rated Engine Speed	rpm	1800	1800
Horsepower at Rated kW**	hp	93	84
Piston Speed	ft/min	1559 (475)	1559 (475)
BMEP	psi	154	143

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

EXHAUST

		STANDBY	PRIME
Exhaust Flow (Rated Output)	cfm (m3/min)	534 (15.1)	502 (14.2)
Max. Backpressure (Post Silencer)	In.Hg (Kpa)	1.5 (5.1)	1.5 (5.1)
Exhaust Temp (Rated Output)	F° (C°)	930 (498.8)	857 (459)
Exhaust Outlet Size (Open Set)	NPT (male)	3.0	3.0

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.

SD060

standard features and options

GENERATOR SET



- Genset Vibration Isolation Std
- IBC Seismic Certified/Seismic Rated Vibration Isolators Opt
- Extended warranty Opt
- Gen-Link Communications Software Opt
- Steel Enclosure Opt
- Aluminum Enclosure Opt

ENGINE SYSTEM



General

- Oil Drain Extension Std
- Oil Make-Up System Opt
- Oil Heater Opt
- Air cleaner Std
- Fan guard Std
- Radiator duct adapter Std

Fuel System

- Fuel lockoff solenoid Std
- Secondary fuel filter Std
- Stainless steel flexible exhaust connection Std
- Industrial Exhaust Silencer Std
- Critical Exhaust Silencer Opt
- Flexible fuel lines Opt
- Primary fuel filter Opt
- Single Wall Tank (Export Only) -
- UL-142 Fuel Tank Opt

Cooling System

- 120VAC Coolant Heater Opt
- 208VAC Coolant Heater Opt
- 240VAC Coolant Heater Opt
- Other Coolant Heater -
- Closed Coolant Recovery System Std
- UV/Ozone resistant hoses Std
- Factory-installed Radiator Std
- Radiator Drain Extension Std

Engine Electrical System

- Battery charging alternator Std
- Battery cables Std
- Battery tray Std
- Battery box Opt
- Battery heater Opt
- Solenoid activated starter motor Std
- 2.5A UL battery charger Opt
- 10A UL float/equalize battery charger Opt
- Rubber-booted engine electrical connections Std

ALTERNATOR SYSTEM



- UL2200 GENprotect™ Opt
- Main Line Circuit Breaker Opt
- 2nd Circuit Breaker -
- 3rd Circuit Breaker -
- Alternator Upsizing Opt
- Anti-Condensation Heater Opt
- Tropical coating Opt
- Permanent Magnet Generator Opt

CONTROL SYSTEM



Control Panel

- Digital H Control Panel - Dual 4x20 Display Std
- Digital G-100 Control Panel - Touchscreen na
- Digital G-200 Paralleling Control Panel - Touchscreen na
- Programmable Crank Limiter Std
- 21-Light Remote Annunciator Opt
- Remote Relay Panel (8 or 16) Opt
- 7-Day Programmable Exerciser Std
- Special Applications Programmable PLC Std
- RS-232 Std
- RS-485 Std
- All-Phase Sensing DVR Std
- Full System Status Std
- Utility Monitoring (Req. H-Transfer Switch) Std
- 2-Wire Start Compatible Std
- Power Output (kW) Std
- Power Factor Std
- Reactive Power Std
- All phase AC Voltage Std
- All phase Currents Std
- Oil Pressure Std
- Coolant Temperature Std
- Coolant Level Std
- Oil Temperature Opt
- Fuel Pressure Std
- Engine Speed Std
- Battery Voltage Std
- Frequency Std
- Date/Time Fault History (Event Log) Std
- Low-Speed Exercise -
- Isochronous Governor Control Std
- 40deg C - 70deg C Operation Std
- Waterproof Plug-In Connectors Std
- Audible Alarms and Shutdowns Std
- Not In Auto (Flashing Light) Std
- Auto/Oil/Manual Switch Std
- E-Stop (Red Mushroom-Type) Std
- Remote E-Stop (Break Glass-Type, Surface Mount) Opt
- Remote E-Stop (Red Mushroom-Type, Surface Mount) Opt
- Remote E-Stop (Red Mushroom-Type, Flush Mount) Opt
- NFPA 110 Level I and II (Programmable) Std
- Remote Communication - RS232 Std
- Remote Communication - Modem Opt
- Remote Communication - Ethernet Opt
- 10A Run Relay Opt

Alarms (Programmable Tolerances, Pre-Alarms and Shutdowns)

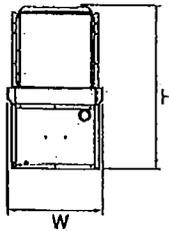
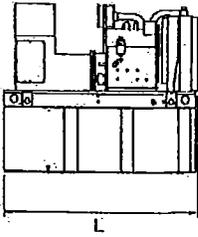
- Low Fuel Opt
- Oil Pressure (Pre-programmed Low Pressure Shutdown) Std
- Coolant Temperature (Pre-programmed High Temp Shutdown) Std
- Coolant Level (Pre-programmed Low Level Shutdown) Std
- Oil Temperature Opt
- Engine Speed (Pre-programmed Overspeed Shutdown) Std
- Voltage (Pre-programmed Overvoltage Shutdown) Std
- Battery Voltage Std

Other Options

-
-
-

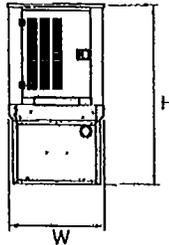
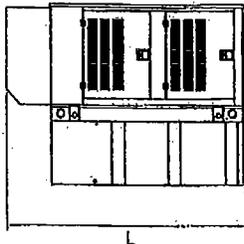
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dimensions, weights and sound levels



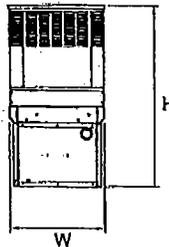
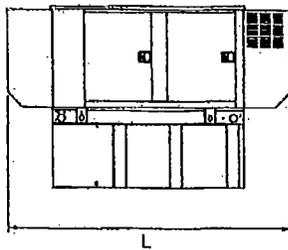
OPEN SET

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dba*
NO TANK	-	93	40	49	2425	86.3
16	79	93	40	62	2947	
39	189	93	40	74	3183	
63	300	93	40	86	3407	
73	350	110	40	86	3809	
106	510	117	47	86	3780	
123	580	128	49	86	4269	



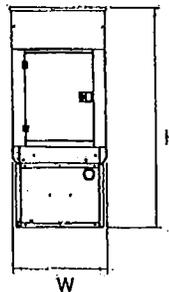
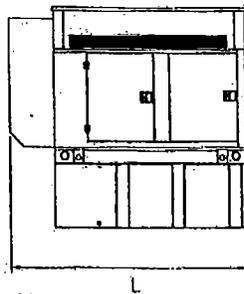
WEATHERPROOF ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dba*
NO TANK	-	112	41	56	2850	80.5
16	79	112	41	69	3372	
39	189	112	41	81	3608	
63	300	112	41	93	3832	
73	350	112	41	93	4234	
106	510	117	47	93	4215	
123	589	128	49	93	4694	



LEVEL 1 SOUND ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dba*
NO TANK	-	130	41	56	2875	74.7
16	79	130	41	69	3397	
39	189	130	41	81	3633	
63	300	130	41	93	3857	
73	350	130	41	93	4259	
106	510	130	47	93	4240	
123	589	130	49	93	4719	



LEVEL 2 SOUND ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY (GAL)	L	W	H	WT	dba*
NO TANK	-	112	41	69	3050	71.6
16	79	112	41	82	3572	
39	189	112	41	94	3808	
63	300	112	41	106	4032	
73	350	112	41	106	4434	
106	510	117	47	106	4416	
123	589	128	49	106	4894	

*All measurements are approximate and for estimation purposes only. Weights are without fuel in tank. Sound levels measured at 23ft (7m) and does not account for ambient site conditions.

Tank Options

- MDEQ OPT
- Florida DERM/DEP OPT
- Chicago Fire Code OPT
- IFC Certification CALL
- ULC CALL

Other Custom Options Available from your Generac Industrial Power Dealer

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

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.

Generac Power Systems, Inc. • 545 W29290 HWY. 59, Waukesha, WI 53109 • generac.com

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ASCO SERIES 300SE Power Transfer Switch

The ASCO Service Entrance Power Transfer Switch combines automatic power switching with the necessary disconnecting, grounding, and bonding required for use as service entrance equipment. The power transfer switch meets all National Electrical Code requirements for service entrance use. Transfer switches generally are installed at facilities that have a single utility feed and a single emergency power source.

ASCO SERIES 300SE products use two types of construction.

Products 400 amperes or less, utilize a single enclosure including a service (utility source) disconnect circuit breaker, as well as the power transfer switch, grounding and bonding provisions.

Products 600 amperes and above, utilize a multi-section switchboard construction including a service equipment section containing the service (utility source) disconnect circuit breaker, grounding, and bonding provisions. A second section contains the power transfer switch.

Product Features:

- Suitable for use as service entrance equipment.
 - Listed to UL 891 (standard for switchboards) for 600 - 3000 amps, sizes and UL 1008 (standard for panel-boards) for 70 - 400 amps.
- Automatic Transfer Switch is listed to UL 1008 for total system loads
- Sizes available from 70 - 3000 amps, 600 VAC, 50 or 60 Hz, single or three phase
- Silver plated copper ground and neutral bus solderless screw type terminals
- Ground fault trip protection provided on sizes 1000 amps and above
- Available with solid or switched neutral

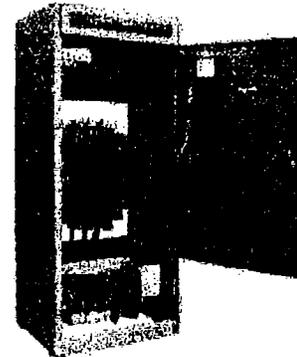
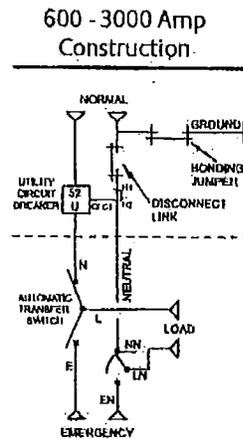


Fig. 16: ASCO SERIES 300 SE Rated 800 amperes Type 1 enclosure with Service Entrance Equipment

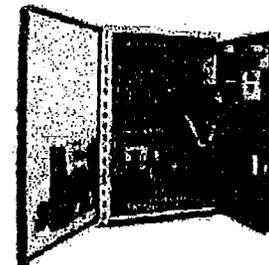
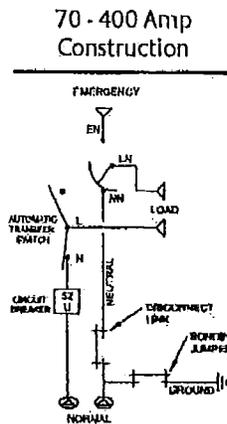


Fig. 17: ASCO SERIES 300 SE rated 200 amperes in Type 1 enclosure with single source breakers

ASCO SERIES 300SE Transfer Switch Ordering Information

To order an ASCO SERIES 300SE Power Transfer Switch, complete the following catalog number:

3AUS + B + 3 + 400 + N + 1 + X + C + 110D + 240V/60									
Product	Neutral Code	Phase Poles	Amperes Continuous Rating	Voltage Code	Controller	Options	Enclosure	Optional Accessories	Specific Volt & Freq
3AUS	B ¹ Switched Neutral	2 poles, 1Ø 3 poles, 3Ø	70, 100, 150, 200 ² , 225 ² , 250, 400, 600, 800, 1000, 1200, 1600, 2000, 2500, 3000	A ³ 115 B ³ 120 C 208 D 220 E 230 F 240 H 380 J 400 K 415 L 440 M 460 N 480 Q 575 R 600	1	Insert "X" if optional accessories are required	C Type 1 (Standard) F Type 3R G Type 4 ² H Type 4X L Type 12 ² M Type 3R Secure N Type 4 Secure P Type 4X ⁶ Secure Double Door SS R Type 3RX ^{7,8} Secure Double Door SS	118G Programmable Engine Exerciser 14AA/14BA Auxiliary Contacts (2 sets) 44G Strip Heater w/Thermostat 72A Serial Module 72E Connectivity Module 73A Surge Suppressor	This information is necessary to allow correct control settings prior to shipment

Notes: 1. Specify neutral code "C" for 250 and 400 amperes only.
2. Available 70-1000 ampacity. Use Type 3R for 1200-3000 amp applications.
3. 115-120 volt available 150-400 amps only.
4. A solid neutral is standard on 3AUS.
5. For switch sizes 70 - 225 amperes only.

6. 200, 225 amp rated switch suitable for use with copper cable only.
7. Type 316 Stainless Steel is standard. It provides an improved reduction in corrosion of salt and some chemicals. It is the preferred choice for marine environments.
8. Available only on switches rated 1200, 2000, 2600, and 3000 Amps.



SERIES 300SE Transfer Switch Dimensions and Shipping Weights

UL Type 1 Enclosure⁴

Switch Rating Amps	Phase Poles	Neutral Code	Dimensions, In. (mm)			Approx. Shipping Weight Lb. (kg)
			Width	Height	Depth	
70, 100, 150, 200, 225	2	STD	36.5 (927)	48.5 (1232)	13.25 (337)	400 (185)
	2	B	36.5 (927)	48.5 (1232)	13.25 (337)	408 (188)
	3	STD	36.5 (927)	48.5 (1232)	13.25 (337)	408 (188)
	3	B	36.5 (927)	48.5 (1232)	13.25 (337)	416 (192)
250, 400	2	STD	36.5 (927)	48.5 (1232)	13.25 (337)	400 (185)
	2	C	36.5 (927)	48.5 (1232)	13.25 (337)	408 (188)
	3	STD	36.5 (927)	48.5 (1232)	13.25 (337)	408 (188)
	3	C	36.5 (927)	48.5 (1232)	13.25 (337)	416 (192)
600 ¹ , 800 ¹	2	STD	38 (965)	91 (2311)	28 (711)	800 (370)
	2	B	38 (965)	91 (2311)	28 (711)	820 (378)
	3	STD	38 (965)	91 (2311)	28 (711)	820 (378)
	3	B	38 (965)	91 (2311)	28 (711)	846 (390)
1000 ¹ , 1200 ¹	2	STD	38 (965)	91 (2311)	48 (1218)	1085 (501)
	2	B	38 (965)	91 (2311)	48 (1218)	1105 (510)
	3	STD	38 (965)	91 (2311)	48 (1218)	1105 (510)
	3	B	38 (965)	91 (2311)	48 (1218)	1134 (523)
1600 ¹ , 2000 ¹	3	STD	38 (965)	91 (2311)	48 (1218)	2590 (1198)
	3	B	38 (965)	91 (2311)	48 (1218)	2640 (1218)
2500 ¹ , 3000 ¹	3	STD	38 (965)	91 (2311)	72 (1829)	4590 (2118)
	3	B	38 (965)	91 (2311)	72 (1829)	4655 (2148)

UL Type 3R Enclosure⁴

Switch Rating Amps	Phase Poles	Neutral Code	Dimensions, In. (mm)			Approx. Shipping Weight Lb. (kg)
			Width	Height	Depth	
70, 100, 150, 200, 225 must specify	2	STD	36(914)	48(1219)	16 (406)	180 (83)
	2	B	36(914)	48(1219)	16 (406)	188 (87)
	3	STD	36(914)	48(1219)	16 (406)	188 (87)
	3	B	36(914)	48(1219)	16 (406)	196 (90)
250, 400	2	STD	36(914)	48(1219)	16 (406)	440 (203)
	2	C	36(914)	48(1219)	16 (406)	448 (207)
	3	STD	36(914)	48(1219)	16 (406)	448 (207)
	3	C	36(914)	48(1219)	16 (406)	485 (225)
600 ¹ , 800 ¹	2	STD	41(1041)	95.5(2426)	34(864)	990 (458)
	2	B	41(1041)	95.5(2426)	34(864)	1010 (467)
	3	STD	41(1041)	95.5(2426)	34(864)	1010 (467)
	3	B	41(1041)	95.5(2426)	34(864)	1036 (479)
1000 ¹ , 1200 ¹	2	STD	41(1041)	95.5(2426)	62(1575)	1305 (604)
	2	B	41(1041)	95.5(2426)	62(1575)	1325 (613)
	3	STD	41(1041)	95.5(2426)	62(1575)	1325 (613)
	3	B	41(1041)	95.5(2426)	62(1575)	1354 (626)
1600 ¹ , 2000 ¹	3	STD	41(1041)	95.5(2426)	62(1575)	2890 (1337)
	3	B	41(1041)	95.5(2426)	62(1575)	2940 (1360)
2500 ¹ , 3000 ¹	3	STD	41(1041)	96(2438)	85(2159)	5350 (2474)
	3	B	41(1041)	96(2438)	85(2159)	5415 (2504)

- Notes: 1. Unit is designed for top and bottom cable entry for all services and load.
 2. Enclosures for 600 - 3000 amps are freestanding.
 3. When temperatures below 32° F can be experienced, special precautions should be taken, such as the inclusion of strip heaters, to prevent condensation and freezing of this condensation. This is

- particularly important when environmental enclosures (Type 3R, 4 & 12) are ordered for installation outdoors. See Optional Accessories page for space heater options (acc. 44G).
 4. Dimensional data is approximate and subject to change. Certified dimensions available upon request.

Extended Warranties for SERIES 300SE Transfer Switches

Catalog No.	Description
2EXW300SE	Two-Year Extended Warranty (Parts & Labor)
3EXW300SE	Three-Year Extended Warranty (Parts & Labor)
4EXW300SE	Four-Year Extended Warranty (Parts & Labor)
5EXW300SE	Five-Year Extended Warranty (Parts & Labor)

SERIES 300SE AIC Rating

Switch Rating	AIC Rating	Voltage
70, 100, 150, 200, 225	25,000	480
250, 400	35,000	480
600	50,000	480
800, 1000, 1200, 1600, 2000	65,000	480
2500, 3000	100,000	480

SERIES 300SE External Power Connections Sizes UL-Listed Solderless Screw-Type Terminals

Switch Rating	Ranges of AL-CU Wire Sizes (Unless Specified Copper Only)
70, 100, 150, 200 ¹ , 225 ¹	One #14 to 4/0 AWG
250, 400	Two 1/0 AWG to 250 MCM or One #4 AWG to 600 MCM
600	Two 1/0 AWG to 600 MCM
800, 1000, 1200	Four 1/0 to 600 MCM
1600, 2000	Six 1/0 to 600 MCM
2500	Twelve 3/0 to 600 MCM
3000	Twelve 3/0 to 600 MCM

- Note: All Series 300SE switches are furnished with a solid neutral plate (unless switched neutral configuration is specified) and terminal lugs.
¹ 200 and 225 amp rated switch for use with copper cable only.



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Administration
DIVISION OF PURCHASES
One Capitol Hill
Providence, RI 02908-5855

Tel: (401) 574-8100
Fax: (401) 574-8387
Website: www.purchasing.ri.gov

**DIVISION OF PURCHASES
INSTRUCTIONS TO BIDDERS
PUBLIC WORKS SERVICES (PWS)**

Compliance with Instructions to Bidders

These Instructions to Bidders contain terms and conditions that will govern the preparation and submission of a bid proposal and any contract awarded pursuant to this solicitation.

Bidders must comply with each and every requirement of these Instructions to Bidders. Any failure to comply with any requirement may result in the determination of a nonresponsive bid proposal and/or the rejection of the bid proposal.

Priority of Terms and Conditions

The terms and conditions in these Instructions to Bidders *supersede* any and all inconsistent or conflicting terms and conditions in any other provision of any other document in this solicitation or in the bid proposal and govern this solicitation, the bid proposal, and any contract awarded pursuant to this solicitation.

Offer to Contract

Bid proposals constitute an offer to contract with the State of Rhode Island through the Department of Administration Division of Purchases on the terms and conditions contained in the solicitation, the laws of the State of Rhode Island, including all procurement statutes and regulations (available at www.purchasing.ri.gov), and applicable federal and local law, all of which are incorporated into this solicitation and any contract awarded pursuant to this solicitation by this reference.

Addenda

Responses to questions from bidders, interpretations of plans and specifications, changes prior to the bid proposal submission deadline, approvals of any substitutions, and supplemental instructions and terms will be posted as addenda on the Division of Purchases website at www.purchasing.ri.gov, and all addenda become incorporated into this solicitation upon posting. Bidders are responsible for checking the website to determine the issuance of any addenda. No addenda will be posted within the 5-day period preceding the bid proposal submission deadline except for an addendum withdrawing the solicitation or extending the bid proposal submission deadline.

Inspection

The bidder is responsible for carefully reviewing all of the requirements of this solicitation, inspecting the project location, including checking and/or verifying site conditions, any limitations, and other details, prior to preparing and submitting its bid proposal. Claims for additional costs or time resulting from the bidder's failure to inspect and/or verify will not be considered.

Prebid Conference

At the discretion of the State Purchasing Agent, a prebid conference - mandatory or nonmandatory - may be held. Bidders must attend a mandatory prebid conference and are encouraged to attend a nonmandatory prebid conference. The bidder's representative must register with the Division of Purchases at a mandatory prebid conference and identify the bidder he or she represents.

Costs

The bidder is responsible for all costs and expenses to develop and submit a bid proposal in response to this solicitation.

Preparation of Bid Proposal

Bid proposals must be made on the Request for Quote included in the solicitation. The bidder must complete the Unit Price and Total columns for each item listed and include specifications (including specifications where the solicitation requires a particular brand) in a legible manner, printed electronically, typed, or handwritten in ink. Items in catalogs must be clearly marked and pages tabbed. In the event of any contradictory terms, handwritten terms prevail over printed or typed terms, and words prevail over figures. Signatures must be in ink. No additional provisions, conditions, or limitations may be made by the bidder, and any erasures and/or corrections must be initialed in ink by the person signing on behalf of the bidder.

This solicitation contains a Bid Preparation Checklist to assist the bidder in preparing a bid proposal for submission.

Submission of Bid Proposal

Each bid proposal (a complete package, with the signed Bidder Certification Cover Form, signed Request for Quote, Bid Surety, IRS Form W-9, and public copy CD-R media disk) must be submitted in a *separate sealed envelope* with the bidder's name and address and the specific "Solicitation Number," "Solicitation Title," and the "Submission Deadline" marked in the upper left-hand corner of the envelope.

The bid proposal must be delivered to the Division of Purchases (via mail, messenger service, or personal delivery by the bidder) by the date and time specified for the bid proposal submission deadline. Bidders should mail bid proposals sufficiently in advance of the bid proposal submission deadline to ensure timely delivery to the Division of Purchases or, when delivering a bid proposal in person or by messenger, should allow additional time for parking and clearance through security checkpoints. Bid proposals must be addressed to:

Rhode Island Department of Administration
Division of Purchases
One Capitol Hill, Second Floor
Providence, RI 02908-5855

Bid proposals that are not received by the Division of Purchases by the bid proposal submission deadline for whatever reason will be deemed late and will not be considered. The submission time will be determined by the time clock in the Division of Purchases. Postmarks will not be considered proof of timely submission.

At the bid proposal submission deadline, bid proposals will be opened and read aloud in public.

Charges

Bid proposals shall include only materials, parts, and labor in the Unit Price and Total. Travel, mileage, or other miscellaneous charges shall not be included in the Unit Price or Total.

Bidder Certification Cover Form

The bidder must download, complete, sign, and submit the Bidder Certification Cover Form for this solicitation as the first document with each bid proposal. The Bidder Certification Cover Form is downloadable with the solicitation from the Division of Purchases website by logging in as a RIVIP vendor and clicking on the applicable "Bid Number."

Public Copy

Bid proposals submitted in response to this solicitation are public records pursuant to the Rhode Island "Access to Public Records Act," R. I. Gen. Laws §§ 38-2-1 *et seq.* Each bid proposal must include a "public copy" to be available for public inspection upon the opening of bids. The public copy must be submitted in .pdf (portable document file) format on a **read-only** CD-R media disk. The disk must include **all of the documents** submitted in response to the solicitation concatenated or merged into one file.

The public copy disk must be separately enclosed in a protective cover clearly marked "Public Copy" and include the following information: (1) Solicitation Title; (2) name of bidder and RIVIP vendor ID number; (3) Solicitation Number; and (4) bid proposal submission deadline.

The .pdf file must be named in the following manner:

SolicitationNumber_Bid Proposal Submission Deadline_BidderName_VendorID.pdf

The bid proposal submission deadline must appear as mm-dd-yyyy. The bidder name must appear as one word, with no spaces or punctuation. Underscores must separate the fields.

Example: 7543210_11-08-2013_OceanStateCompanyInc_9867.pdf

The public copy of each bid proposal will be posted on the Division of Purchases website. Bidders may redact in the public copy any trade secrets or commercial or financial information which is of a privileged or confidential nature pursuant to the Access to Public Records Act.

*For Rhode Island Department of Transportation highway and bridge projects, in addition to the Quest Lite compatible electronic copy and one hard copy, the bidder must also include a duplicate original of the Quest Lite compatible electronic copy on a **read-only** CD-R media disk as the "public copy."*

Contractors Registration

The bidder must have and maintain a valid certificate of registration issued by the Contractors' Registration Board throughout the term of the contract awarded pursuant to this solicitation and ensure that its subcontractors, unless exempt from registration, also obtain and maintain valid certificates of registration.

Subcontractors

The bidder must demonstrate that it is able to perform a substantial portion of the work using its own workforce. Any bidder that does not maintain a permanent workforce and/or proposes to perform a disproportionate amount of the work through one or more subcontractors will be considered unqualified. The successful bidder must establish to the satisfaction of the State Purchasing Agent the reliability and responsibility of any subcontractors proposed to perform any work pursuant to this solicitation.

Taxes

The State of Rhode Island is exempt from federal excise taxes and state and municipal sales and use taxes. The bidder shall not include such taxes in any prices in the bid proposal.

Bid Surety

Bidders must furnish, with their bid proposals, either a bid bond from a surety licensed to conduct business in the State of Rhode Island or a certified check payable to the State of Rhode Island in the amount of five (5%) percent of the bid proposal. (*Bidders for Rhode Island Department of Transportation highway and bridge projects must furnish, with their bid proposals, a bid bond from a surety licensed to conduct business in the State of Rhode Island. Certified checks are not permitted for these projects.*) An attorney-in-fact who executes a bond on behalf of the surety must provide a certified current copy of the power of attorney. A successful bidder who fails to submit the additional documentation required by the tentative letter of award and/or fails to commence and pursue the work in accordance with the contract awarded pursuant to this solicitation may forfeit, at the discretion of the State Purchasing Agent, the full amount of the bid surety as liquidated damages. The State will retain the bid surety of all bidders until the earliest of: (i) the issuance of the Purchase Order; (ii) the 61st day following the bid proposal submission deadline; or (iii) the rejection of all bid proposals.

Divestiture of Investments in Iran Requirement

No bidder engaged in investment activities in Iran as described in R.I. Gen. Laws § 37-2.5-2(b) may submit a bid proposal to, or renew a contract with, the Division of Purchases. Each bidder submitting a bid proposal or entering into a renewal of a contract is required to certify that the bidder does not appear on the list maintained by the General Treasurer pursuant to R.I. Gen. Laws § 37-2.5-3.

Domestic Steel

Any steel products required by the plans and specifications in this solicitation must be formed, extruded, forged, cast, fabricated, or otherwise processed from steel made in the United States.

Withdrawal

A bidder may withdraw its bid proposal at any time prior to the bid proposal submission deadline. Bid proposals are irrevocable for a period of 60 days following the bid proposal submission deadline.

Reservation of Rights

The Division of Purchases reserves the right, at any time, for any reason, in its sole discretion, to: (i) revoke, suspend, or terminate this solicitation; (ii) accept or reject any and all bid proposals, in whole or in part; (iii) waive any technical defects, irregularities, or omissions in any bid proposals; and/or (iv) terminate any contract awarded pursuant to this solicitation, with or without cause.

Award

The State Purchasing Agent, in his or her sole discretion, will award the contract pursuant to this solicitation to the responsive and responsible bidder who submits the lowest responsive and responsible bid proposal. The State Purchasing Agent may determine, in his or her sole discretion, the low bid proposal on the basis of the amount of the Base Bid Price plus the alternates selected in accordance with the Request for Quote. The successful bidder will receive a tentative letter of award from the Division of Purchases with instructions for the bidder to submit further documentation. A binding contract, to the extent of available funds, between the State of Rhode Island and the successful bidder will be formed by the issuance, *and only by the issuance*, of a Purchase Order from the Division of Purchases. The successful bidder shall be authorized to commence work only upon the issuance of the Purchase Order and, in addition, an authorization from the user agency. The issuance of the Purchase Order and the continuation of any contract awarded pursuant to this solicitation is contingent upon the availability of funds.

Prevailing Wages

The successful bidder and its subcontractors must pay their workers at the applicable prevailing wage rates (adjusted every July 1) for the various trades on a weekly basis, pay their workers one and one-half times the applicable prevailing wage rates for each hour worked in excess of 8 hours in any one day or 40 hours in any one week, and submit certified weekly payroll forms on a monthly basis to the user agency. Prevailing wage posters and rate schedules, available at the Rhode Island Department of Labor and Training website at www.dlt.ri.gov, must be posted at the project site.

Occupational Safety

The successful bidder must ensure (if the total contract price is at least \$100,000) that all employees at the project site possess a card issued by the United States Department of Labor certifying successful completion of an OSHA ten (10) hour construction safety program.

Hazardous Substances

The successful bidder must submit a chemical identification list to the Rhode Island Department of Labor and Training upon receipt of a Purchase Order from the Division of Purchases prior to performance of the contract awarded pursuant to this solicitation and make available to all employees a list of any hazardous substances that may present a risk of exposure.

Substitutions

Any proposal in response to a request for substitutions in the solicitation must include the detailed information necessary for a comprehensive evaluation, including (without limitation) the name of the material or equipment of the proposed substitution and a complete description of the proposed substitution, with drawings and performance and test data. Products specified in this solicitation establish a standard of quality, performance, dimension, function, and appearance. Proposed substitutions must meet the standard and will not be considered without the prior written approval of the Division of Purchases. All substitution approvals will be posted, as addenda to the solicitation on the Division of Purchases website.

Licenses

The successful bidder and anyone performing any services on the contract awarded pursuant to this solicitation must possess all of the licenses required by any federal, state, or local law to perform such work.

Insurance

The successful bidder must submit a certificate of insurance that references the solicitation number and names the State of Rhode Island as "certificate holder" and as "additional insured" upon the issuance of the tentative letter of award, on an annual basis during the term of the contract awarded pursuant to this solicitation, and from time to time upon request. The certificate of insurance must state that 20 days' advance notice of cancellation (referencing the solicitation number) will be sent to: Rhode Island Department of Administration, Division of Purchases, One Capitol Hill, Providence, Rhode Island 02908-5855, fax # 401-574-8387, and provide evidence of the following specific types and amounts of insurance:

<u>Type of Insurance</u>	<u>Amount of Coverage</u>
Comprehensive General Liability	
Bodily injury	\$1 Million each occurrence \$1 Million annual aggregate
Property damage	\$500,000 each occurrence \$500,000 annual aggregate
Independent contractors Contractual (including construction "hold harmless" and other types of Contracts or agreements in effect for insured operations) Completed operations Personal injury (with employee exclusion deleted)	
Automobile Liability	
Combined Single Limit	\$1 Million each occurrence
Bodily injury, property damage, including nonowned and/or hired vehicles and equipment	
Workers Compensation	
Coverage B	\$100,000
Environmental Impairment ("pollution control")	\$1 Million or 5% of contract amount, whichever is greater

The State Purchasing Agent reserves the right to accept alternate forms and plans of insurance and/or to require additional or more extensive coverage.

Minority Business Enterprises

The Division of Purchases reserves the right to give additional consideration to bid proposals submitted by minority/women business enterprises certified by the Division of Purchases, Minority Business Office ("MBEs") provided that any such bid proposal is fully responsive to the terms and conditions of this solicitation, and the bid price is determined, in the discretion of the Division of Purchases, to be within a competitive range.

Any bidder who does not intend to perform all of the work with its own forces shall recruit and engage MBEs to perform at least 10% of the dollar value of the contract awarded pursuant to this solicitation. To reach that goal, the bidder may allocate up to 60% of its costs for materials and supplies obtained from MBE dealers or 100% of its costs for materials and supplies obtained from MBE manufacturers.

The successful bidder must submit a plan to meet this requirement for approval by the Division of Purchases, Minority Business Enterprise Compliance Office within the 21-day period following the tentative letter of award, identifying all MBEs, and must also demonstrate its good faith best efforts to meet these MBE goals. Information about this requirement and a directory of MBEs certified in Rhode Island is available at www.mbe.ri.gov or (401) 574-8670.

Equal Opportunity

The successful bidder must demonstrate a commitment to equal opportunity and submit an affirmative action plan for review by the Rhode Island Department of Administration State Equal Opportunity Office) within the 21-day period following the tentative letter of award. Information about this requirement is available at www.diversity.ri.gov/eo/eoepagehome.htm or (401) 222-3090.

Drug-Free Workplace

The successful bidder shall comply, and require that its employees comply, with the State of Rhode Island Drug Free Workplace policy and provide a certificate of compliance within the 21-day period following the tentative letter of award.

Sprinkler Impairment

The successful bidder must comply with the requirements of the State of Rhode Island's insurance carrier for sprinkler impairment and hot work, accessible at the Division of Purchases website at www.purchasing.ri.gov.

Foreign Corporations

No foreign corporation or limited liability company may transact business in the State of Rhode Island until it shall have obtained a Certificate of Authority from the Rhode Island Secretary of State, and no foreign limited partnership may transact business in the State of Rhode Island until it shall have obtained a Certificate of Registration from the Rhode Island Secretary of State. The successful bidder, if a corporation or limited liability company, will be required to provide a Good Standing Certificate, and if a limited partnership, will be required to provide a Letter of Legal Existence, issued by the Rhode Island Secretary of State within the 21-day period following the tentative letter of award.

Campaign Finance

The successful bidder who has contributed, within the 24 months preceding the contract award, an aggregate amount of more than \$250.00 within a calendar year to any Rhode Island general officer, candidate for general office, any member of the general assembly, or any Rhode Island political party, must file a "Vendor Affidavit" with the State of Rhode Island Board of Elections. Information about "Vendor Affidavits" and electronic filing is available at www.elections.ri.gov or Board of Elections, Campaign Finance, (401) 222-2056.

Binding Contract

A binding contract between the State of Rhode Island and the successful bidder will be formed by the issuance of a Purchase Order from the Division of Purchases, *and only by the issuance of a Purchase Order, and only to the extent of available funds.* The binding contract will incorporate and be subject to the terms and conditions of the solicitation, including the Invitation to Bid, the Instructions to Bidders, the Bid Preparation Checklist, the Request for Quote, the Bidder Certification Cover Form, the Agreement (if applicable to this solicitation), and also the Purchase Order. The successful bidder shall be authorized to commence work only upon the issuance of the Purchase Order and, in addition, an authorization from the user agency.

Compliance with Terms of Contract

Failure of the successful bidder to comply with the terms and conditions of any contract awarded pursuant to this solicitation may result in nonpayment, suspension or termination of the contract, suspension or debarment of the bidder, or any other necessary or appropriate remedy.



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex

1511 Pontiac Avenue
Cranston, RI 02920-4407

TTY: Via RI Relay 711

Lincoln D. Chafee
Governor

Charles J. Fogarty
Director

STATE CONTRACT ADDENDUM

RHODE ISLAND DEPARTMENT OF LABOR AND TRAINING

**PREVAILING WAGE REQUIREMENTS
(37-13-1 ET SEQ.)**

The prevailing wage requirements are generally set forth in RIGL 37-13-1 et seq. These requirements refer to the prevailing rate of pay for regular, holiday, and overtime wages to be paid to each craftsmen, mechanic, teamster, laborer, or other type of worker performing work on public works projects when state or municipal funds exceed one thousand dollars (\$1,000).

All Prevailing Wage Contractors and Subcontractors are required to:

1. Submit to the Awarding Authority a list of the contractor's subcontractors for any part or all of the prevailing wage work in accordance with RIGL § 37-13-4;
2. Pay all prevailing wage employees at least once per week and in accordance with RIGL §37-13-7 (see Appendix B attached);
3. Post the prevailing wage rate scale and the Department of Labor and Training's prevailing wage poster in a prominent and easily accessible place on the work site in accordance with RIGL §37-13-11; posters may be downloaded at www.dlt.ri.gov/pw/Posters.htm .poster/htm or obtained from the Department of Labor and Training, Center General Complex, 1511 Pontiac Avenue, Cranston, Rhode Island;
4. Access the Department of Labor and Training website, at www.dlt.ri.gov on or before July 1st of each year, until such time as the contract is completed, to ascertain the current prevailing wage rates and the amount of payment or contributions for each covered prevailing wage employee and make any necessary adjustments to the covered employee's prevailing wage rates effective July 1st of each year in compliance with RIGL §37-13-8;
5. Attach a copy of this CONTRACT ADDENDUM and its attachments as a binding obligation to any and all contracts between the contractor and any

An Equal Opportunity Employer/Program./Auxiliary aids and services are available upon request to individuals with disabilities.

TTY via RI Relay 711



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex
1511 Pontiac Avenue
Cranston, RI 02920-4407

Telephone; (401) 462-8000
TTY; Via RI Relay 711

Lincoln D. Chafee
Governor
Charles J. Fogarty
Director

subcontractors and their assignees for prevailing wage work performed pursuant to this contract;

6. Provide for the payment of overtime for prevailing wage employees who work in excess of eight (8) hours in any one day or forty (40) hours in any one week as provided by RIGL §37-13-10;
7. Maintain accurate prevailing wage employee payroll records on a Rhode Island Certified Weekly Payroll form available for download at www.dlt.ri.gov/pw.forms/htm, as required by RIGL §37-13-13, and make those records available to the Department of Labor and Training upon request;
8. Furnish the fully executed RI Certified Weekly Payroll Form to the awarding authority on a monthly basis for all work completed in the preceding month.
9. For general or primary contracts one million dollars (\$1,000,000) or more, shall maintain on the work site a fully executed RI Certified Prevailing Wage Daily Log listing the contractor's employees employed each day on the public works site; the RI Certified Prevailing Wage Daily Log shall be available for inspection on the public works site at all times; this rule shall not apply to road, highway, or bridge public works projects. Where applicable, furnish both the Rhode Island Certified Prevailing Wage Daily Log together with the Rhode Island Weekly Certified Payroll to the awarding authority.
10. Assure that all covered prevailing wage employees on construction projects with a total project cost of one hundred thousand dollars (\$100,000) or more has a OSHA ten (10) hour construction safety certification in compliance with RIGL § 37-23-1;
11. Employ apprentices for the performance of the awarded contract when the contract is valued at one million dollars (\$1,000,000) or more, and comply with the apprentice to journey person ratio for each trade approved by the apprenticeship council of the Department of Labor and Training in compliance with RIGL §37-13-3.1;
12. Assure that all prevailing wage employees who perform work which requires a Rhode Island trade license possess the appropriate Rhode Island trade license in compliance with Rhode Island law; and

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TTY via Rf Relay 711



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex
1511 Pontiac Avenue
Cranston, RI 02920-4407

Telephone: (401) 462-8000
TTY: Via RI Relay 711

Lincoln D. Chafee
Governor
Charles J. Fogarty
Director

13. Comply with all applicable provisions of RIGL §37-13-1, et. seq;

Any questions or concerns regarding this CONTRACT ADDENDUM should be addressed to the contractor or subcontractor's attorney. Additional Prevailing Wage information may be obtained from the Department of Labor and Training at www.dlt.ri.gov/pw.

CERTIFICATION

I hereby certify that I have reviewed this CONTRACT ADDENDUM and understand my obligations as stated above.

By: _____

Title: _____

Subscribed and sworn before me this ___ day of _____, 20__.

Notary Public
My commission expires: _____

*An Equal Opportunity Employer/Program, /Auxiliary aids and services are available upon request to individuals with disabilities.
TTY via RI Relay 711*



STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Labor and Training

Center General Complex

1511 Pontiac Avenue

Cranston, RI 02920-4407

Telephone: (401) 462-8000

APPENDIX A

TITLE 37
Public Property and Works
CHAPTER 37-13
Labor and Payment of Debts by Contractors
SECTION 37-13-5

§37-13-5 Payment for trucking or materials furnished - Withholding of sums due. -A contractor or subcontractor on public works authorized by a proper authority shall pay any obligation or charge for trucking and material which have been furnished for the use of the contractor or subcontractor, in connection with the public works being performed by him or her, within ninety (90) days after the obligation or charge is incurred or the trucking service has been performed or the material has been delivered to the site of the work, whichever is later. When it is brought to the notice of the proper authority in a city or town, or the proper authority in the state having supervision of the contract, that the obligation or charge has not been paid by the contractor or subcontractor, the proper authority may deduct and hold for a period not exceeding sixty (60) days, from sums of money due to the contractor or subcontractor, the equivalent amount of such sums certified by a trucker or materialman creditor as due him or her, as provided in this section, and which the proper authority determines is reasonable for trucking performed or materials furnished for the public works.

APPENDIX B

TITLE 37
Public Property and Works

CHAPTER 37-13
Labor and Payment of Debts by Contractors

SECTION 37-13-7

§ 37-13-7 Specification in contract of amount and frequency of payment of wages.

-(a) Every call for bids for every contract in excess of one thousand dollars (\$1,000), to which the state of Rhode Island or any political subdivision thereof or any public agency or quasi-public agency is a party, for construction, alteration, and/or repair, including painting and decorating, of public buildings or public works of the state of Rhode Island or any political subdivision thereof, or any public agency or quasi-public agency and which requires or involves the employment of employees, shall contain a provision stating the minimum wages to be paid various types of employees which shall be based upon the wages that will be determined by the director of labor and training to be prevailing for the corresponding types of employees employed on projects of a character similar to the contract work in the city, town, village, or other appropriate political subdivision of the state of Rhode Island in which the work is to be performed. Every contract shall contain a stipulation that the contractor or his or her subcontractor shall pay all the employees employed directly upon the site of the work, unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account, the full amounts accrued at time of payment computed at wage rates not less than those stated in the call for bids, regardless of any contractual relationships which may be alleged to exist between the contractor or subcontractor and the employees, and that the scale of wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of the work; and the further stipulation that there may be withheld from the contractor so much of the accrued payments as may be considered necessary to pay to the employees employed by the contractor, or any subcontractor on the work, the difference between the rates of wages required by the contract to be paid the employees on the work and the rates of wages received by the employees and not refunded to the contractor, subcontractors, or their agents.

(b) The terms "wages", "scale of wages", "wage rates", "minimum wages", and "prevailing wages" shall include:

- (1) The basic hourly rate of pay; and
- (2)) The amount of:

(A) The rate of contribution made by a contractor or subcontractor to a trustee or to a third person pursuant to a fund, plan, or program; and

(B) The rate of costs to the contractor or subcontractor which may be reasonably anticipated in providing benefits to employees pursuant to an enforceable commitment to carry out a financially responsible plan or program which was communicated in writing to the employees affected, for medical or hospital care, pensions on retirement or death, compensation for injuries or illness resulting from occupational activity, or insurance to provide any of the foregoing, for unemployment benefits, life insurance, disability and sickness insurance, or accident insurance, for vacation and holiday pay, for defraying costs of apprenticeship or other similar programs, or for other bona fide fringe benefits, but only where the contractor or subcontractor is not required by other federal, state, or local law to provide any of the benefits; provided, that the obligation of a contractor or subcontractor to make payment in accordance with the prevailing wage determinations of the director of labor and training insofar as this chapter of this title and other acts incorporating this chapter of this title by reference are concerned may be discharged by the making of payments in cash, by the making of contributions of a type referred to in subsection (b)(2), or by the assumption of an enforceable commitment to bear the costs of a plan or program of a type referred to in this subdivision, or any combination thereof, where the aggregate of any payments, contributions, and costs is not less than the rate of pay described in subsection (b)(1) plus the amount referred to in subsection (b)(2).

(c) The term "employees", as used in this section, shall include employees of contractors or subcontractors performing jobs on various types of public works including mechanics, apprentices, teamsters, chauffeurs, and laborers engaged in the transportation of gravel or fill to the site of public works, the removal and/or delivery of gravel or fill or ready-mix concrete, sand, bituminous stone, or asphalt flowable fill from the site of public works, or the transportation or removal of gravel or fill from one location to another on the site of public works, and the employment of the employees shall be subject to the provisions of subsections (a) and (b).

(d) The terms "public agency" and "quasi-public agency" shall include, but not be limited to, the Rhode Island industrial recreational building authority, the Rhode Island economic development corporation, the Rhode Island airport corporation, the Rhode Island industrial facilities corporation, the Rhode Island refunding bond authority, the Rhode Island housing and mortgage finance corporation, the Rhode Island resource recovery corporation, the Rhode Island public transit authority, the Rhode Island student loan authority, the water resources board corporate, the Rhode Island health and education building corporation, the Rhode Island higher education assistance authority, the Rhode Island turnpike and bridge authority, the Narragansett Bay water quality management district commission, Rhode Island telecommunications authority, the convention center authority, the board of governors for higher education, the board of regents for elementary and secondary education, the capital center commission, the housing resources commission, the Quonset Point-Davisville management corporation, the Rhode Island children's crusade for higher education, the Rhode Island depositors economic protection corporation, the Rhode Island lottery commission, the Rhode Island

partnership for science and technology, the Rhode Island public building authority, and the Rhode Island underground storage tank board.



State of Rhode Island
Division of Purchases

Public Works
Bid Preparation Checklist

Date: 10/23/2014

Bid#: 7549095

Title: Furnish and Install 2 Generators-Bristol and Middletown Armorys

This checklist is provided to assist the bidder in preparing a bid proposal for submission. It is not a substitute for a thorough review of the Instruction to Bidders nor a comprehensive list of all bid proposal requirements. Each bidder is responsible to review the Instructions to Bidders and to comply with all requirements of the Solicitation.

Bid Proposal Package:

- RIVIP Bidder Certification Cover Form (completed) signed in ink
- Bid Form
 - All applicable blank spaces on the Bid Form have been completed
 - All Addenda have been acknowledged
 - Bid price printed legibly in ink (in both words and figures that match where specified)
 - Erasures or corrections have been initialed by person signing the Bid Form
 - Bid Form is signed in ink
- Bid Surety
 - Bid bond or certified check (for DOT projects, bid bond only)
 - Bid surety is five percent of the bid total (or such other specified amount)
 - Bid Bond is signed by the bidder and surety
 - Power of Attorney is attached to the Bid Bond showing the name of person who signed the surety bond
- Public Copy of bid proposal in pdf format on a read-only CD-R media disk
- General Contractor Apprenticeship Certification Form "2013-14" (for projects \$1,000,000 and greater) required at time of bid proposal submission

Note: General Contractor Apprenticeship Re-Certification and Certification Form "2013-16" and Subcontractor Apprenticeship Certification Form "2013-15" are not required at time of bid proposal submission deadline.

- Applicable professional licenses (as specified in the Solicitation)
- Rhode Island Contractor Registration Board No.
- All bid proposal documents in a sealed envelope with the specific Solicitation #, Solicitation title, and the bid proposal submission deadline marked in the upper left hand corner of the envelope
- Each bid proposal submitted in a separate sealed envelope
- Completed Form W-9
- Other _____

Buyer Name: David A. Cadoret

Contact Information: doa.purbidinfo@purchasing.ri.gov

State of Rhode Island
PAYER'S REQUEST FOR TAXPAYER
IDENTIFICATION NUMBER AND CERTIFICATION

THE IRS REQUIRES THAT YOU FURNISH YOUR TAXPAYER IDENTIFICATION NUMBER TO US. FAILURE TO PROVIDE THIS INFORMATION CAN RESULT IN A \$50 PENALTY BY THE IRS. IF YOU ARE AN INDIVIDUAL, PLEASE PROVIDE US WITH YOUR SOCIAL SECURITY NUMBER (SSN) IN THE SPACE INDICATED BELOW. IF YOU ARE A COMPANY OR A CORPORATION, PLEASE PROVIDE US WITH YOUR EMPLOYER IDENTIFICATION NUMBER (EIN) WHERE INDICATED.

Taxpayer Identification Number (T.I.N.)

Enter your taxpayer identification number in the appropriate box. For most individuals, this is your social security number.

Social Security No. (SSN)

Employer ID No. (EIN)

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NAME _____

ADDRESS _____

(REMITTANCE ADDRESS, IF DIFFERENT) _____

CITY, STATE AND ZIP CODE _____

CERTIFICATION: Under penalties of perjury, I certify that:

- (1) The number shown on this form is my correct Taxpayer Identification Number (or I am waiting for a number to be issued to me), and
- (2) I am not subject to backup withholding because either: (A) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (B) the IRS has notified me that I am no longer subject to backup withholding.

Certification Instructions -- You must cross out item (2) above if you have been notified by the IRS that you are subject to backup withholding because of under-reporting interest or dividends on your tax return. However, if after being notified by IRS that you were subject to backup withholding you received another notification from IRS that you are no longer subject to backup withholding, do not cross out item (2).

PLEASE SIGN HERE

SIGNATURE _____ TITLE _____ DATE _____ TEL NO. _____

BUSINESS DESIGNATION:

- Please Check One: Individual Medical Services Corporation Government/Nonprofit Corporation
Partnership Corporation Trust/Estate Legal Services Corporation

NAME: Be sure to enter your full and correct name as listed in the IRS file for you or your business.

ADDRESS, CITY, STATE AND ZIP CODE: Enter your primary business address and remittance address if different from your primary address). If you operate a business at more than one location, adhere to the following:

- 1) Same T.I.N. with more than one location -- attach a list of location addresses with remittance address for each location and indicate to which location the year-end tax information return should be mailed.
- 2) Different T.I.N. for each different location -- submit a completed W-9 form for each T.I.N. and location. (One year-end tax information return will be reported for each T.I.N. and remittance address.)

CERTIFICATION -- Sign the certification, enter your title, date, and your telephone number (including area code and extension).

BUSINESS TYPE CHECK-OFF -- Check the appropriate box for the type of business ownership.

Mail to: Supplier Coordinator, One Capitol Hill, Providence, RI 02908