

# **Request for Bids**

# Backup Generator and Electrical Switchgear for Serna Center Bid #0825-0817

Responses Due: July 27, 2023

No later than 11:00:00 AM

Sacramento City Unified School District Contracts Department 5735 47<sup>th</sup> Ave. Sacramento, CA. 95824



Sacramento City Unified School District

**Contracts Department** 5735 47th Ave, Sacramento, CA 95824 T: 916-643-9465

### **Bidder Information Sheet**

### If you downloaded this Bid from our website, email this sheet to Purchasing Services to be added to our bidders list.

Attention:Tina Alvarez Bevens, Contract AnalystEmail:tina-alvarez-bevens@scusd.edu

Re: BID #0825-0817 Backup Generator and Electrical Switchgear for Serna Center

Sacramento City Unified School District Bids/Proposals are available on-line. It is the responsibility of Respondents to email this sheet to Purchasing Services to ensure firm is added to Bidders list to receive Addenda to this Bid.

Name:		
Title:		
Organization:		
Street Address	::	
City:		
State/Zip Code	:	
Work Phone:		
Fax:		
Email:		

#### NOTICE TO BIDDERS

The Sacramento City Unified School District ("District") is requesting Bids from companies, corporations, qualified persons of organizations ("Vendors") to supply Generators and Electrical Switchgear for The Serna Center, District Office.

The Request for Bids, which includes instructions for its completion, is enclosed for your consideration. Respondents to this Bid shall submit a completed sealed bid package. Respondents must mail or deliver one (1) unbound original, two (2) bound copies and a PDF version on a flash drive of requested materials to:

#### Sacramento City Unified School District Attn: Contracts Department 5735 47<sup>th</sup> Avenue Sacramento, CA. 95824 RE: BID 0825-0817

#### ALL RESPONSES ARE DUE JULY 27, 2023 BY 11:00:00 A.M.

Oral, telegraphic, facsimile, telephone or email Bid Packets will not be accepted. Bid Packets received after this date and time will not be accepted and returned unopened. The District reserves the right to waive any informalities or irregularities in the Bid Packet. The District also reserves the right to reject any and all Bid Packets and to negotiate contract terms with one or more Respondents.

#### **Addenda**

The District may modify the Bid, any of the submittal dates, or any of its contents or attachments, prior to the date fixed for submission of bid by issuance of addendum to all parties who have been furnished the Bid. Addenda will be number consecutively.

#### All Respondents shall acknowledge receipt of amendments in its proposal.

The successful bidder will be required to certify that it either meets the Disabled Veterans Business Enterprise ("DVBE") goal of three percent (3%) participation or made a good faith effort to solicit DVBE participation if it is awarded the contract.

If you have any questions regarding this Bid, please email Tina Alvarez Bevens, Contract Analyst at <u>tina-alvarez-bevens@scusd.edu</u> and cc: Robert Aldama, Purchasing Manager II At <u>Robert-aldama@scusd.edu</u>

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#### **BID SCHEDULE SUMMARY**

DATE	ACTION ITEM	TIME
June 30, 2023	Publish and advertise Bid 0825-0817	
July 17, 2023	Last day to receive written questions from Respondents	2:00 pm
July 24, 2023	Last day for District to issue addenda to answer questions / clarifications	2:00 pm
July 27, 2023	Deadline for submissions in response to Bid 0825-0817	11:00:00 am
August 1, 2023	Notice of Intent to Award / Regrets	
August 17, 2023	Anticipated Board of Education approval of Award	

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#### **INTRODUCTION**

The Sacramento City Unified School District ("District") is a California public school district serving approximately 40,000 students on 75 campuses, spanning 70 square miles. The purpose of this Bid, is to solicit proposals from Vendors that can supply the District with the equipment necessary to install a gas-fired backup generator and electrical switchgear at the District's main office. The District intends to select one vendor through this bid process that is believed to be able to provide the best value to the District.

#### SCOPE OF SUPPLY

**Quantity (2) Two - Generac MG400 MPS (OR EQUAL)** Industrial gaseous engine-driven generator, turbocharged/after-cooled 12 cylinder 21.9L engine, consisting of the following features and accessories:

- Stationary Emergency-Standby rated
- 400 kW Rating, wired for 277/480 VAC three phase, 60 Hz

• Power Manager Digital Control Platform configured for Generac Modular Power System's Paralleling

Controller (PM-PC)

- 32 bit microprocessor structured with: real-time clock, 47 inputs, 32 outputs, 2 RS232 ports, 2 RS485 ports, RJ45 modem port, CANbus port
- +/-1.0% digital voltage regulator with: 3 phase RMS sensing, soft-start voltage ramping adjustable, loss of sensing protection - adjustable, negative power limit - adjustable,

Hi/Lo voltage limit - adjustable, V/F slope and gain - adjustable, fault protection, encapsulated and sealed

- 0.25% digital frequency regulation with: soft-start ramping adjustable, gain adjustable, overshoot limit - adjustable
- On-board PLC for customer configuration with: 24 digital inputs, 43 analog inputs, 24 digital open-collector outputs - 30 vdc, 16 timers, 16 counters
- Programmable touch screen engine control and monitoring module with: Auto/Manual/Off key switch, Alarm LED, Not in Auto LED, audible alarm, emergency stop switch, 30-page readout including: Oil Pressure and optional Oil Temp, Coolant Temp and Level, Fuel Level (where applicable), Engine Speed, DC Battery Voltage, Run-time Hours, Generator Voltages, Amps, Frequency, Power, Power Factor, Alarm Status: Low or High AC Voltage, Low or High Battery Voltage, Low or High Frequency, Pre-low or Low Oil Pressure, Prehigh or High Oil Temp (optional), Low Water Level and Temp, Pre-high or High Engine Temp, High, Low, and Critical-low Fuel Level (where applicable), Over-crank, Over and Under Speed, Unit Not in Automatic

• Level 1 Acoustic Enclosure, Steel



- o Industrial Grey Baked-On Powder Coat Finish
- Average Sound Level, 82 dBA at 23 ft
- UL2200
- EPA Certified
- SCAQMD
- Power Zone Digital Control Panel for Single or MPS Generators
  - Meets NFPA 99 and 110 requirements
  - Temp Range -40 to 70 degrees C
  - Humidity 2 95% (Non Condensing)
  - o UL6200
  - C-ETL-US
  - o CE
  - o FCC
  - o IEC801 (Radiated Emissions, Susceptibility, and Surge Immunity)
  - 7" Resistive Color Touchscreen
  - Built-in Webserver
  - IP65 (front)
  - Auto/Manual/Off key switch, Alarm Indication, Not in Auto Indication, audible alarm, emergency stop switch
  - o Dual Core Digital Microprocessor
  - RS485, Ethernet and CANbus ports
  - Sensors: Oil Pressure, optional Oil Temp, Coolant Temp and Level, Fuel Level/Pressure (where applicable), Engine Speed, DC Battery Voltage, Run-time Hours, Generator Voltages, Amps, Frequency, Power, Power Factor
  - Alarm Status: Low or High AC Voltage, Low or High Battery Voltage, Low or High Frequency, Pre-low or Low Oil Pressure, Pre-high or High Oil Temp (optional), Low

Water Level and Temp, Pre-high or High Engine Temp, High, Low, and Critical-low Fuel Level/Pressure (where applicable), Over-crank, Over and Under Speed, Unit Not in Automatic

- 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% digital frequency regulation with: soft-start ramping adjustable, gain adjustable, overshoot limit adjustable
- 3 Phase RMS Voltage Sensing
  - +/-0.5% digital voltage regulation with: soft-start voltage ramping adjustable, loss of sensing protection - adjustable, negative power limit - adjustable, Hi/Lo voltage limit - adjustable, V/F slope and gain - adjustable, fault protection
- Service reminders, trending, fault history (alarm log)

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

BID #0825-0817 Backup Generator and Electrical Switchgear for Serna Center

- o I2T function for full generator protection
- Selectable low-speed exercise
- o 2 and 3-wire start controls for any industrial grade transfer switch
- Remote Emergency Stop Switch, Surface-Mount, shipped loose
- Natural Gas fuel system
- 225 AH, 1155 CCA Group 8D Batteries, with rack, installed
- Air Filter Restriction Ind
- Battery Charger, 10 Amp, NFPA 110 compliant, installed
- Coolant Heater, 2500W, 240VAC
- 12 Position 1PH Load Center
- 120V GFCI and 240V Outlet
- Crankcase Oil Heater
- Engine Run Relay
- Flex Fuel Line
- Ground Fault Annunciator
- Oil Temp Sender
- MLCB, 100% rated LSI electronic trip
  - 700 Amp
- 3 Owner's Manuals
- Standard Two-Year Limited Warranty
- MG0400KG30219N18PPSYE

#### Quantity (1) One – Power Zone Permissive/Load Shed Controller, NEMA 3R

#### Quantity (1) One - Connection Box, 4500A

#### **Designation: 1200A Main Swbd**

#### Quantity (1) One Square D Custom Swbd-QED-2 Switchboard (OR EQUAL)

Square D Custom Swbd Designed and Tested in accordance with: UL 891/NATIONAL ELECTRIC CODE/NEMA PB-2 System Voltage - 480Y/277V 3Ph 4W 60Hz System Ampacity - 1200A Source Description - Single Main Bussing - Aluminum Plated w/Tin and Copper Plated w/Silver Neutral Bus - 100% Max Available Fault Current (RMS) - 65kA Enclosure - Type 1 Accessibility: Front Only Rodent Barrier Exterior Paint Color - ANSI 49 Ground Lug provided for each device Aluminum Ground Bus ASCO Controller with 07ATS - Auto Transfer Switch 1200 Amp, Switched Neutral Emergency Cable Entrance - Top Seismic Qualified Special: (2) Per Lineup - load bus to 1600a for PV sourc - - TAG # TR-109751-1 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT BID #0825-0817 Backup Generator and Electrical Switchgear for Serna Center

#### Dimensions

1 - 42" Wide Section(s) 1 - 30" Wide Section(s) 1 - 48" Wide Section(s) 2 - 36" Wide Section(s) 5 - 36" Deep Enclosure(s) Dimensions: 192.00" W X 36" Max D X 91.5" H Approximate Weight: 4721.00 lbs / 2141.45 kgs

Suitable for Use As Service Entrance Entry Point: Left of Lineup, Through the Bottom Connection Type: Cable Reverse Feed Hot Sequence Utility: Sacramento S.M.U.D (CA) Standard Door Pattern 15in Blank Top, 15in MS Btm Mains

1 - 1200AS/1200AT 480V 80% Rated 65 kA 3 Pole UL, Fixed Mounted Electronic Trip Circuit Breaker: Type PJ Power Trip Unit, Long Time, Short Time, Instantaneous, Ground Fault Padlock Attachment Energy Reduction Maintenance Switch

#### Feeders

3 - 400AS/300AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Electronic Trip Circuit Breaker: Type LJ Standard Trip Unit, Long Time, Instantaneous 2 - 400AS/350AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Electronic Trip Circuit Breaker: Type LJ Standard Trip Unit, Long Time, Instantaneous 3 - 100AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type BJ 1 - 600AS/600AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Electronic Trip Circuit Breaker: Type LJ Standard Trip Unit, Long Time, Instantaneous 1 - 700AT 480V 80% Rated 65 kA 3 Pole UL. Group Mounted Basic Electronic Trip Circuit Breaker: Type MJ 1 - 250AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type JJ 1 - 110AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type BJ 2 - 50AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type BJ 1 - 150AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type HJ 1 - 225AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type JJ SACRAMENTO CITY UNIFIED SCHOOL DISTRICT BID #0825-0817 Backup Generator and Electrical Switchgear for Serna Center

1 - 60AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type BJ 2 - 100AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type BJ Device Designation: Shunt Trip Shunt Trip - 120Vac 3 - 90AT 480V 80% Rated 65 kA 3 Pole UL, Group Mounted Thermal Magnetic Circuit Breaker: Type BJ

### SCOPE CLARIFICATIONS

- Equipment only, no installation, fueling or termination of connections
- Bid price shall include freight to site: Sacramento City USD

5735 47<sup>th</sup> Ave. Sacramento, CA. 95824

- The District shall agree to pay **no more than 10% deposit at the time of order**, then **balance invoiced at shipment with <u>NET 30</u> terms**
- Equipment offloading shall be arranged by the District
- Include estimated lead time from factory upon receipt of awarded purchase order.
- Enclosure color: Industrial grey (Factory)
- Alternate Mfg./Models: The District shall have sole discretion if alternate models and specifications are determined "Equal". If an alternate manufacturer and model is proposed, include all specifications and schematics with bid submission.

#### **BID OPENING**

- Bids will be opened at or after the time indicated that responses are due. The District Office will **NOT** be open to bidders or their representatives.
- Bidders shall be clearly written and without erasure or deletions. The District reserves the right to reject any bid containing erasures, deletions, or illegible contents.
- Bidders must complete and submit the following documents with Bid submission:
  - o Non-Collusion Declaration
  - Literature and Specifications
  - $\circ \quad \text{Lead Times}$

#### AWARD OF CONTRACT

The District shall award the Contract, if it awards at all, to the lowest responsive, responsible Bidder based on the criteria as indicated in the Notice to Bidders. In the event two or more responsible Bidders submit identical bids, the District shall select the Bidder whom to award the Contract by lot.

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT BID #0825-0817 Backup Generator and Electrical Switchgear for Serna Center

• Should the awarded Bidder terminate the Contract as a result of a notice of postponement, the District shall have the authority to award the Contract to the next lowest responsive, responsible Bidder.

It is the policy of the District that no qualified person shall be excluded from participating in, be denied the benefits of, or otherwise be subjected to discrimination in any consideration leading to the award of contract, based on race, color, gender, sexual orientation, political affiliation, age, ancestry, religion, marital status, national origin, medical condition or disability. The Successful Bidder and its subcontractors shall comply with applicable federal and state laws, including, but not limited to the California Fair Employment and Housing Act, beginning with Government Code section 12900, and Labor Code section 1735.

#### Questions, Interpretations, or Clarifications

Questions related to this bid shall be submitted in writing and emailed to Tina Alvarez Bevens, Contract Analyst at <u>tina-alvarez-bevens@scusd.edu</u> and cc: Robert Aldama, Purchasing Manager II at <u>Robert-aldama@scusd.edu</u>

Specify "Question-Bid 0825-0817 in the subject line. Responses to all questions received will be posted on the District's website, https://www.scusd.edu/construction-projects-bids, as an addendum, no later than Monday, July 24, 2023.

Bidders are responsible for checking the website periodically for any updates or revisions to the Bid

#### **BID PROTEST**

Any bid protest by any bidder regarding any other bid must be submitted in writing to the District, before 5:00 p.m. of the **THIRD** (3<sup>rd</sup>) business day following the Notice of Intent to Award Contract is posted.

- a. Only a Bidder who has actually submitted a bid, and who could be awarded the contract if the bid protest is upheld, is eligible to submit bid protests.
- b. A bid protest must contain a complete statement of any and all bases for the protest and all supporting documentation. Materials submitted after the bid protest deadline will not be considered.
- c. The protest must include the name, address and telephone number of the person representing the protesting party.
- d. The District's Purchasing Manager shall have (5) days after receipt of protest to respond to Protestant.

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SACRAMENTO CITY UNIFIED SCHOOL DISTRICT BID #0825-0817 Backup Generator and Electrical Switchgear for Serna Center

#### **BID FORM AND PROPOSAL**

To: Sacramento City Unified School District ("District")

From: \_\_\_\_\_

(Formal Name of Bidder)

The undersigned declares that the Notice to Bidders have been read, and agrees and proposes to furnish all equipment in accordance with the terms and conditions of the Scope of Supply and Specifications of Bid No. 0825-0817 for the following project known as:

#### Backup Generator and Electrical Switchgear for Serna Center

Will accept deposit of 10% at the time of order, then balance invoiced with Net 30 terms payment for proposed total amount:

Quantity (2) Generac MG400 MPS Generator (Or Equal)	\$
Options: Generac Level 1 Acoustic Enclosure, Steel	
12-position load center	
Quantity (1) Power Zone Permissive/Load Shed Controller, NEMA 3R	
Quantity (1) Connection Box, 4500A	
Quantity (1) Square D Custom Swbd-QED-2 Switchboard (Or Equal)	\$

(Do not include Sales Tax in Unit Cost)

TOTAL BID AMOUNT \$\_\_\_\_\_

Lead Times:

### **NON-COLLUSION DECLARATION**

### TO BE EXECUTED BY AND SUBMITTED WITH BID

\_\_\_\_, declare that I am the party making the foregoing proposal. that Ι, the proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the proposal is genuine and not collusive or sham; that the proponent has not directly or indirectly induced or solicited any other proponent to put in a false or sham proposal and has not directly or indirectly colluded, conspired, connived, or agreed with any proponent or anyone else to put in a sham proposal, or that anyone shall refrain from responding; that the proponent has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix any overhead, profit, or cost element of the proposal price, or of that of any other proponent, or to secure any advantage against the public body awarding the Contract of anyone interested in proposed Contract; that all statements contained in the proposal are true, and, further, that the proponent has not, directly or indirectly, submitted his or her proposal price of any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, Bid depository, or to any member or agent thereof to effectuate a collusive or sham Bid.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Date

Name of Vendor

Printed name of Authorized Company Representative

Signature of Authorized Company Representative

### GENERAL TERMS AND CONDITIONS

**Bids/Proposals**: To receive consideration, Bids/Proposals shall be made in accordance with the following terms:

- THE BID All items on the form should be stated in figures, and signatures of all individuals must be in long hand. The completed form should be without interlineations, alterations, or erasures. Unsigned bids will not be accepted. Return one
  (1) un-bound original and two (2) bound and signed complete set, one (1) PDF version on flash drive, sealed in an envelope with the Bid number and name of Bid listed on the outside.
  - 2. "FAX" BIDS Facsimile copies of bids will not be accepted for formal advertised bids.
- 3. **DEFINITIONS –** Responsible; a bidding party possessing the skill, judgment, integrity and financial ability necessary to timely perform and complete the contract being bid. Responsive; a bid which meets all of the specifications set forth in the request for bids.
- 4. NAME AND NATURE OF BIDDER'S LEGAL ENTITY The bidder(s) shall specify in the bid and in the bond, if furnished as a guarantee, the name and nature of its legal entity and any fictitious name under which it does any business covered by the bond. The bid shall be signed under the correct firm name by an authorized officer.
- 5. WITHDRAWAL OF BID Bid proposals may be withdrawn by the bidders prior to the time fixed for the opening of bids, but may not be withdrawn for a period of ninety (90) days after the opening of bids. A successful bidder shall not be relieved of the bid submitted without the District's consent or bidder's recourse to Public Contract Code Sections 5100 <u>et. seq.</u>
- ASSIGNMENT OF CONTRACT OR PURCHASE ORDER The bidder(s) shall not assign or transfer by operation of law or otherwise any or all of its rights, burdens, duties or obligations without the prior written consent of the surety on the bond, if any, and the District.
- BID NEGOTIATIONS A bid response to any specific item of this bid with terms such as "negotiable", "will negotiate" or of similar intent, will be considered as non-responsive to the specific item.
- 8. **PRICES –** Prices should be typed and shown as instructed on the bid form for each item, in the amount of quantity specified in the bid form. Taxes shall not be included. Errors may be crossed off and corrections made prior to bid opening only, and must be initialed in ink by the person signing the bid or bidder's authorized representative. If during the contract period there should be a decrease in prices of the items bid, a corresponding

decrease in prices on the balance of the deliveries shall be made to the District for as long as the lower prices are in effect, but at no time shall the prices charged the District exceed the prices bid. The District shall be given the benefit of any lower prices which may, for comparable quality and delivery be given by the contractor to any other school district or any other state, county, municipal or local governmental agency in Sacramento County for products listed herein.

- 9. TAXES Taxes shall not be included in unit prices. The District will pay only the State Sales and Use Tax; however, California Use Tax will be paid to out-of-state vendors only when their permit number is shown on both their bid and invoices. The successful bidder(s) shall list separately any taxes payable by the District and shall certify on the invoices that Federal Excise Tax is not included in the prices listed thereon. Federal Excise Tax is not applicable, as school districts are exempt therefrom. The District, upon request, shall furnish the contractor such Federal Tax Exemption Certificates as may be required.
- 10. **PERFORMANCE GUARANTEE** The successful bidder(s) may be required to provide a performance guarantee. Such requirement shall be at the discretion of the District's Manager of Purchasing Services. A continuous performance bond in the amount of 100% of the total amount of the award executed by an admitted surety in the State of California and satisfactory to the District and filed with the Manager of Purchasing Services is the preferred form of performance guarantee. Said bond, if required, shall be furnished within ten (10) calendar days from the date of Notice of Award. Failure to promptly submit a performance guarantee when requested may result in the rejection of an otherwise acceptable low bid.
- 11. **BRAND NAME AND NUMBER** The bidder(s) shall state the brand name and number in the column provided. If none is indicated, it shall be understood that the bidder is quoting on the exact brand name and number specified in the bid form. Should any item for which bids are requested by patented, or otherwise protected or designated by the particular name of the maker and the bidder desires to bid on an item of equal character and quality, he may offer such substitute item by clearly indicating that such substitution is intended and specify the brand. Such substitution shall be accepted only if deemed by the Manager of Purchasing Services to be equal in all respects to that specified. If samples are requested by the Manager of Purchasing Services for this determination, they shall be submitted in accordance with Paragraph 12, except that they may be submitted after the bid opening.
- 12. **SAMPLES –** Samples shall be furnished free of cost to the District after the bid opening. If requested, they are to be sent within seven (7) days to Purchasing Services, 5735 47th Avenue, Sacramento California, 95824, unless otherwise specified. The District reserves the right to reject the bid of any bidder failing to submit samples as requested. Samples must be plainly marked with name of bidder, bid number and date of the bid opening. Samples of the successful bidder(s) may be retained for comparison with deliveries. Bidder(s) may pick up samples (if not destroyed by test) on notice from the Manager of Purchasing Services. If not picked up within fifteen (15) calendar days after date of such

notice, samples may be disposed of by the District. Bidder(s) (or their agent) hereby assume all risks of loss or damage to samples whatever the cause.

- 13. **QUANTITY AND QUALITY OF MATERIALS OR SERVICES –** The successful bidder(s) shall furnish and deliver the quantities designated in the bid or purchase order. All materials, supplies or services furnished under the contract shall be in accordance with the bid specifications and the District's sample or the sample furnished by the bidder(s) and accepted by the District. Materials or supplies which, in the opinion of the Manager of Purchasing Services, are not in accordance and conformity with said specifications and samples shall be rejected and removed from the District premises at the bidder's expense. When a sample is taken from a shipment and sent to a laboratory for testing and the test shows that the sample does not comply with the bid specifications, the cost of such test shall be paid by the bidder(s). In bidding, the bidder(s) certifies that all materials conform to all applicable requirements of CAL OSHA and all other requirements of law. All items of equipment and individual components, where applicable standards have been established, shall be listed by the Underwriter Laboratories, Inc., and bear the UL label.
- 14. **DISTRICT REQUIREMENTS** The quantity shown is the estimate of consumption for the contract period. The needs of the District may be substantially more or less than such referenced quantities. The articles, supplies or services listed in the bid and required during the contract period shall be ordered and purchased from the successful bidder(s) during such period. The District shall have the right to issue purchase orders up to and including the last day of the contract period even though the time provided for delivery may extend beyond such period. The District reserves the right to acquire from other sources during the life of the contract such items as may be required for testing, evaluation or experimental purposes, or for special programs of an emergency nature, and purchases made by individual schools.
- 15. ACCEPTANCE OR REJECTION OF BIDS The District may purchase an individual item or combination of items, whichever is in the best interest of the District, provided also that bidder(s) may specify that the District's acceptance of one item shall be contingent upon the District's acceptance of one or more additional items submitted in the same bid. Bids shall remain open and valid and subject to acceptance for ninety (90) calendar days after the bid opening.
- 16. BID EXCEPTIONS All exceptions which are taken in response to this bid must be stated clearly. The taking of bid exceptions or providing false, incomplete or unresponsive statements may result in the disqualification of the bid. Allowance of exceptions will be determined by the governing board whose decisions shall be final. Any bid exceptions or additional conditions requested after bid closure, which are not detailed within the bid response, may result in disqualification of the bid. No oral or telegraphic modification of any bid submitted will be considered.
- AWARDS The District reserves the right of determination that items bid meet or do not meet bid specifications. Further, the Board of Education reserves the right to accept or reject any or all bids and to waive any informality in the bidding.

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT BID #0825-0817 Backup Generator and Electrical Switchgear for Serna Center

- EXECUTION OF CONTRACT Issuance of a Purchase Order shall be evidence the contractual agreement between the bidder(s) and the District and the bidder's acceptance of these Bid Instructions and Conditions.
- 19. DELIVERY Time and manner of delivery are essential factors in proper performance under the contract. Unless otherwise specified, the successful bidder(s) shall be responsible for delivery and shall pay all costs, including drayage, freight and packing for delivery to locations in the District as may be specified in the bid form. Each item shall be securely and properly packed and clearly marked as to contents. All items purchased for delivery by truck or freight line shall be palletized. The preferred pallet size should be 48" long by 40" wide. All shipments shall be accompanied by a packing slip and the District purchase order number shall appear on all cases and packages.
- 20. **MATERIAL SAFETY DATA SHEETS** For all products requiring a Material Safety Data Sheet The District requires that a Material Safety Data Sheet accompany all orders at the time of delivery.
- 21. **DEFAULT BY CONTRACTOR –** The District shall hold the bidder(s) responsible for any damage which may be sustained because of failure or neglect to comply with any terms or conditions listed herein. It is specifically provided and agreed that time shall be of the essence in meeting the contract delivery requirements. If the successful bidder(s) fails or neglects to furnish or deliver any of the materials, supplies or services listed herein at the prices named and at the time and place herein stated or otherwise fails or neglects to comply with the terms of the bid, the District may, upon written notice to the bidder, cancel the contract/purchase order in its entirety or cancel or rescind any or all items affected by such default, and may, whether or not the contract is cancelled in whole or in part, purchase the materials, supplies or services elsewhere without further notice to the bidder. The prices paid by the District at the time such purchases are made shall be considered the prevailing market price. Any extra cost incurred by such default may be collected by the District from the bidder, or deducted from any funds due the bidder.
- 22. INSURANCE The successful bidder(s) shall maintain insurance adequate to protect him from claims under Workers' Compensation Laws and from claims for damages for personal injury, including death and damage to property, which may arise from bidder's operations under the contract. Also, the bidder may be required to file proof of such insurance, naming Sacramento City Unified School District as an additional insured by separate endorsement as follows: The bidder is required to provide proof of insurance to the Governing Board of a comprehensive general liability insurance policy providing occurrence based coverage to be in effect during the term of the contract. Bodily Injury shall be \$1,000,000, combined single limit or \$1,000,000 per person, \$1,000,000 per accident. Property Damage shall be \$500,000 per loss. Failure to furnish such evidence and insurance, if required, may be considered default by the bidder(s).
- 23. **INVOICES AND PAYMENTS –** Unless otherwise specified, the successful bidder(s) shall render invoices in duplicate for materials delivered or services performed under the

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT BID #0825-0817 Backup Generator and Electrical Switchgear for Serna Center

contract, to the: Sacramento Unified School District, Accounting Services Department, 5735 47<sup>th</sup> Avenue, Sacramento, California, 95824. Invoices shall be submitted under the same firm name as shown on the bid. The successful bidder(s) shall list separately any taxes PAYABLE BY THE District and shall certify on the invoices that Federal Excise Tax is not included in the prices listed thereon. The District shall make payment for materials, supplies, or services furnished under the contract within <u>NET 30</u> terms after acceptance thereof and approval of the invoices by the authorized District Representative.

24. **AMERICAN MADE PRODUCTS** – In compliance with Sections 4300 to 4305 of the California Government Code and the William F Gooding Child Nutrition Reauthorization Act of 1998, Section 204(d); 7 CFR Sections 210.21(d) and 220.16(d), only materials produced or manufactured in the United States will be procured by the District, except for those which fall within the purview of Sections 4301, 4302 and 4303.5. In compliance with Code Sections 4330 to 4334 inclusive California products shall receive preference over materials made elsewhere. If a bidder is proposing an article of foreign make, the fact must be stated in his bid.

#### 25. MISCELLANEOUS PROVISIONS:

A. <u>Assignment of Contracts</u> – The Contractor shall not assign or transfer by operation of law or otherwise any or all of its rights, burdens, duties or obligations without the prior written consent of the surety on the performance bond (if one is required) and of the District.

**B.** <u>**Binding Effect**</u> – This Agreement shall inure to the benefit of and shall be binding upon the Contractor and District and their respective successors and assigns.

**C.** <u>Severability</u> – If any provisions of this agreement shall be held invalid or unenforceable by a court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provisions hereof.

**D.** <u>Amendments</u> – The terms of this Agreement shall not be waived, altered, modified, supplemented or amended in any manner whatsoever except by written agreement signed by the parties.

**E.** <u>Entire Agreement</u> – This Bid and all attachments thereto constitutes the entire agreement between the parties. There are no understandings, agreements, representations or warranties, express or implied, not specified in the Agreement. Bidder, by the execution of his/her signature on the Bid Form acknowledges that he/she has and read this Agreement, understands it, and agrees to be bound by its terms and conditions.

**F.** <u>Force Majeure Clause</u> – The parties to the contract shall be excused from performance thereunder during the time and to the extent that they are prevented from obtaining, delivering or performing by act of God, fire, strike, loss or shortage of transportation facilities, lockout, or commandeering of materials, products, plants or facilities by the government, when satisfactory evidence thereof is presented to the other

party, provided that it is satisfactorily established that the nonperformance is not due to the fault or neglect of the party not performing.

**G.** <u>Hold Harmless Clause</u> – The successful bidder agrees to indemnify, defend and save harmless Sacramento City Unified School District, its governing board, related divisions and entities, officers, agents, and employees from and against any and all claims, demands, losses, defense costs, or liability of any kind or nature which the District, it's officers, agents, and employees may sustain or injure or which may be imposed upon them for injury to or death of persons, or damage to property as a result of, arising out of, or in any manner connected with the bidder or bidder's agents, employees or subcontractor's performance under the terms of this contract, expecting only liability arising out of the sole negligence of the District.

**H.** <u>**Prevailing Law**</u> – In the event of any conflict or ambiguity between these instructions and state or federal law or regulations, the latter shall prevail. Additionally, all equipment to be supplied or services to be performed under the bid proposal shall conform to all applicable requirements of local, state and federal law.

**I.** <u>Governing Law and Venue</u> – In the event of litigation, the bid documents, specifications and related matters shall be governed by and construed only in accordance with the laws of the State of California. Venue shall only be with the appropriate state or federal court located in Sacramento County.

J. <u>Permits and Licenses</u> – The successful bidder(s) and all of his employees or agents shall secure and maintain in force such licenses and permits as are required by law, in connection with the furnishing of materials, articles or services herein listed. All operations and materials shall be in accordance with law.

**K.** <u>Toll Charges</u> – If it is necessary that the District place toll or long distance telephone calls in connection with this contract (for complaints, adjustments, shortages, failure to deliver, etc.), the successful bidder shall accept charges for such calls on a reverse charge basis.

L. <u>Contract Documents</u> – The complete contract includes the following documents: The advertisement for bids, the bid instructions and conditions, specifications and drawings, if any, the bid and its acceptance by the District, the purchase order, and all amendments thereto. All of these documents shall be interpreted to include all provisions of the other documents as though fully set out therein.

**M.** <u>Independent Contractor</u> – While engaged in carrying out and complying with terms and conditions of the contract, the bidder agrees by his/her signature on the Bid Form that he/she is an independent contractor and not an officer, employee or agent of the District.

**N.** <u>Anti-discrimination</u> – It is the policy of the Sacramento City Unified School District Board of Education, that in connection with all work performed under Purchasing Contracts there shall be no discrimination against any prospective or active employee engaged in the work because of sexual orientation, physical and mental disability, medical conditions, marital status, age, pregnancy, veteran status, gender, race, color, ancestry,

national origin, sex, or religious creed. Therefore, the bidder agrees to comply with applicable Federal and California laws including, but not limited to, the California Fair Employment and Housing Act. In addition, the successful bidder(s) agrees to require like compliance by all subcontractors employed on the work by him.

**O.** <u>Termination Without Cause</u> – This Agreement may be terminated by the District upon giving thirty days' advance written notice of an intention to terminate.

**P.** <u>**Product Shortages**</u> – If the successful bidder is unable to supply any product listed herein, the District may purchase such product at a fair market value from another source. The difference in cost and all delivery charges shall be the responsibility of the supplier listed on the original contract agreement.

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency and Non-Emergency



GENERAC

#### DEMAND RESPONSE READY

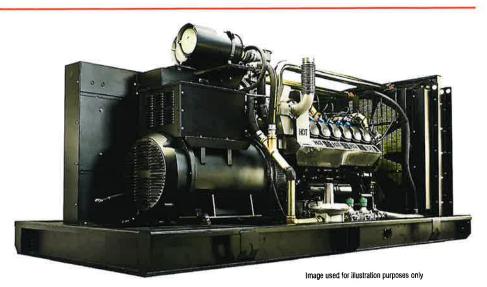
INDUSTRIAL

Standby Power Rating 400 kW, 500 kVA, 60 Hz

Demand Response Rating 400 kW, 500 kVA, 60 Hz

Prime Power Rating 360 kW, 450 kVA, 60 Hz





### **Codes and Standards**

Not all codes and standards apply to all configurations. Contact factory for details.



### **Powering Ahead**

Generac ensures superior quality by designing and manufacturing most of its generator components, such as alternators, enclosures, control systems and communications software. Generac also makes its own spark-ignited engines, and you'll find them on every Generac gaseous-fueled generator. We engineer and manufacture them from the block up - all at our facilities throughout Wisconsin. Applying natural gas and LP-fueled engines to generators requires advanced engineering expertise to ensure reliability, durability and necessary performance. By designing specifically for these dry, hotter-burning fuels, the engines last longer and require less maintenance. Building our own engines also means we control every step of the supply chain and delivery process, so you benefit from singlesource responsibility.

Plus, Generac Industrial Power's distribution network provides all parts and service so you don't have to deal with third-party suppliers. It all leads to a positive owner experience and higher confidence level. Generac spark-ignited engines give you more options in commercial and industrial generator applications as well as extended run time from utility-supplied natural gas.

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency and Non-Emergency

### STANDARD FEATURES

· Factory Filled Oil and Coolant

NPT Fuel Connection on Frame

Primary and Secondary Fuel Shutoff

Closed Coolant Recovery System

• 50/50 Ethylene Glycol Antifreeze

UV/Ozone Resistant Hoses

Factory-Installed Radiator

Radiator Drain Extension

**CONTROL SYSTEM** 

Engine Coolant Heater

Stainless Steel Flexible Exhaust Connection

Radiator Duct Adapter (Open Set Only)

**ENGINE SYSTEM** 

 Oil Drain Extension Air Cleaner

Critical Silencer

**Cooling System** 

**Fuel System** 

•

•



- · Battery Charging Alternator
- Battery Cables
- Battery Tray •
- **Rubber-Booted Engine Electrical Connections** •
- Solenoid Activated Starter Motor

#### ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator ٠
- Permanent Magnet Excitation
- Sealed Bearing
- Amortisseur Winding
- Full Load Capacity Alternator

### DEMAND RESPONSE READY

INDUSTRIAL

#### **GENERATOR SET**

GENERAC

- Internal Genset Vibration Isolation
- Separation of Circuits High/Low Voltage
- Separation of Circuits Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby and Demand) Response Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Units Only)

#### **ENCLOSURE (If Selected)**

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hood (Radiator and Exhaust)

- RhinoCoat<sup>™</sup> Textured Polyester Powder Coat Paint

#### 7 Inch Color Touch Screen Display

- Resistive Color Touch Screen
- Sunlight Readable (1400 NITS)
- · Easily Identifiable Icons
- Multi-Lingual
- On Screen Editable Parameters
- Key Function Monitoring
- · Three Phase Voltage, Amperage, kW, kVA, and kVAr
- Selectable Line to Line or Line to Neutral Measurements
- Frequency
- Engine Speed
- Engine Coolant Temperature
- Engine Oil Pressure
- Engine Oil Temperature
- · Battery Voltage
- Hourmeter
- Warning and Alarm Indication
- Diagnostics
- Maintenance Events/Information

Remote Communication via Modbus<sup>®</sup> RTU, Modbus TCP/IP, and Ethernet 10/100

Multiple Programmable Inputs and Outputs

- · Alarm and Event Logging with Real Time Stamping
- · Expandable Analog and Digital Inputs and Outputs

#### PARALLELING CONTROLS

- Auto-Synchronization Process
- Isochronous Load Sharing
- Reverse Power Protection

- Remote Wireless Software Update Capable
- · Wi-Fi, Bluetooth, BMS and Remote Telemetry
- Built-In Programmable Logic Eliminates the Need for External Controllers Under Most Conditions
- Ethernet Based Communications Between Generators
- Programmable I/O Channel Properties
- Built-In Diagnostics

#### Protections

- Low Oil Pressure
- Low Coolant Level
- High/Low Coolant Temperature
- Sensor Failure
- Oil Temperature
- Over/Under Speed
- Over/Under Voltage
- Over/Under Frequency •
- Over/Under Current
- Over Load
- · High/Low Battery Voltage
- Battery Charger Current
- Phase to Phase and Phase to Neutral Short Circuits (I<sup>2</sup>T Algorithm)
- Maximum Power Protection
- Electrically Operated, Mechanically Held Paralleling Switch
- Sync Check System
- Independent On-Board Paralleling
- Optional Programmable Logic Full Auto Back-Up Controls (PLS)
- Shunt Trip and Auxiliary Contact

SPEC SHEET

Stainless Steel Lift Off Door Hinges

#### Stainless Steel Lockable Handles



#### Power Zone<sup>®</sup> Pro Sync Controller

NFPA 110 Level 1 Compliant

Engine Protective Functions

Digital Voltage Regulator

Remote Display Capability

Alternator Protective Functions

Digital Engine Governor Control

#### **Program Functions**

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency and Non-Emergency

### **CONFIGURABLE OPTIONS**

#### ENGINE SYSTEM

- O Baseframe Cover/Rodent Guard
- Oil Heater
- Air Filter Restriction Indicator
- Radiator Stone Guard (Open Set Only)
- Level 1 Fan and Belt Guards (Enclosed Units Only)

#### **FUEL SYSTEM**

○ NPT Flexible Fuel Line

#### **ELECTRICAL SYSTEM**

- 10A UL Listed Battery Charger
- O Battery Warmer

#### **ALTERNATOR SYSTEM**

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating

#### **CIRCUIT BREAKER OPTIONS**

- Main Line Circuit Breaker
- Electronic Trip Breakers

#### **GENERATOR SET**

- Demand Response Rating
- Extended Factory Testing (3-Phase Only)
- 12 Position Load Center

#### ENCLOSURE

Weather Protected Enclosure

#### Content of the second end o

- Level 2 Sound Attenuated
- Level 2 Sound Attenuated with Motorized Dampers
- Level 3 Sound Attenuated (Steel Only)

#### • Steel Enclosure

- Aluminum Enclosure
- Damper Alarm (Motorized Dampers Only)
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Enclosure Heaters (Motorized Dampers Only)
- Door Open Alarm Switch

#### DEMAND RESPONSE READY

#### **CONTROL SYSTEM**

- O Oil Temperature Sender with Indication Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- 10A Engine Run Relay
- O Ground Fault Annunciator
- 100 dB Alarm Horn
- 120V GFCI and 240V Outlets

#### WARRANTY (Standby Gensets Only)

- O 2 Year Extended Limited Warranty
- O 5 Year Limited Warranty
- O 5 Year Extended Limited Warranty
- O 7 Year Extended Limited Warranty
- O 10 Year Extended Limited Warranty

#### **ENGINEERED OPTIONS**

#### ENGINE SYSTEM

- Coolant Heater Ball Valves
- Fluid Containment Pans

#### **CONTROL SYSTEM**

O Battery Disconnect Switch

#### **GENERATOR SET**

- Special Testing
- Battery Box

3 of 6



INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency and Non-Emergency

#### **APPLICATION AND ENGINEERING DATA**

ENGINE SPECIFICATIONS

General

#### **Cooling System**

Cooling System Type	Pressurized Closed Recovery
Fan Type	Pusher
Fan Speed - RPM	1,404
Fan Diameter - in (mm)	44 (1,118)

#### Fuel System

Fuel Type	Natural Gas
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure - in H <sub>2</sub> O (kPa)	11 - 14 (2.7 - 3.5)
Optional Operating Fuel Pressure - in H <sub>2</sub> O (kPa)	7 - 11 (1.7 - 2.7)

#### Engine Electrical System

System Voltage	24 VDC
Battery Charger Alternator	57 A
Battery Size	See Battery Index 0161970SBY
Battery Voltage	(2) - 12 VDC
Ground Polarity	Negative

lectronic
±0.25%

#### Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow Spin-On Cartridge
Crankcase Capacity - qt (L)	31.7 (30)

#### **ALTERNATOR SPECIFICATIONS**

Standard Model	K0400124Y21	
Poles	4	
Field Type	Revolving	
Insulation Class - Rotor	Н	
Insulation Class - Stator	Н	
Total Harmonic Distortion	<5% (3-Phase)	
Telephone Interference Factor (TIF)	<52	

Standard Excitation	Permanent Magnet
Bearings	Sealed Ball
Coupling	Direct via Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

# SPEC SHEET

### 4 of 6

**DEMAND RESPONSE READY** 



Make	Generac
Cylinder #	12
Туре	V12
Displacement - In <sup>3</sup> (L)	1,336.4 (21.9)
Bore - in (mm)	5.03 (128)
Stroke - in (mm)	5.60 (142)
Compression Ratio	10.0:1
Intake Air Method	Turbocharged/Aftercooled
Number of Main Bearings	7
Connecting Rods	Steel Alloy
Cylinder Head	Cast Iron
Cylinder Liners	Cast Steel Alloy
Ignition	Electronic
Piston Type	Cast Aluminum Alloy
Crankshaft Type	Steel
Lifter Type	Solid
Intake Valve Material	High Temp Steel Alloy
Exhaust Valve Material	High Temp Steel Alloy
Hardened Valve Seats	Proprietary Alloy
Engine Governing	
Governor	Electronic

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency and Non-Emergency

#### **OPERATING DATA**

#### DEMAND RESPONSE READY

#### **POWER RATINGS - NATURAL GAS**

			Standby/Den	nand Response	Р	rime
	Three-Phas	e 277/480 VAC @0.8pf	400 kW/500 kVA	Amps: 602	360 kW/450 kVA	Amps: 542
	Three-Phas	e 346/600 VAC @0.8pf	400 kW/500 kVA	Amps: 482	360 kW/450 kVA	Amps: 434
MOTOR ST	ARTING CAPABILITI	ES (skVA)				
		( )	skVA vs. Vo	ltage Dip		
			277/480 VAC	30%		
			K0400124Y21	953		
			K0500124Y23	1,020		
			K0600124Y23	1,560		
FUEL CUNS	SUMPTION RATES*	Natural G Percent Load	as – scfh (m³/hr)	Demand Deepen	e Prime	
	3	25%		/Demand Respons ,680 (47.6)	1,620 (45.9	9)
		50%		2,640 (74.8)	2,460 (69.7	
	2	75%		,600 (101.9)	3,300 (93.4	
	,	100%		,620 (130.8)	4,200 (118.	
		* Fuel supply installation must accom	modate fuel consumption	rates at 100% load.		
COOLING						
					y/Demand Response	Prime
	Air Flow (Fan Air Flow	Across Radiator)	scfm (m <sup>2</sup>	<sup>3</sup> /min)	28,004 (793)	28,004 (793
	Coolant Flow		gpm (L	pm)	211 (799)	211 (799)

Coolant Flow	gpm (Lpm)	211 (799)	211 (799)
Coolant System Capacity	gai (L)	15.5 (58.7)	15.5 (58.7)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)		See Bulletin No	o. 0199270SSD
Maximum Radiator Backpressure	in H <sub>2</sub> O (kPa)	0.5 (0.12)	0.5 (0.12)

#### **COMBUSTION AIR REQUIREMENTS**

				Standby/Demand Response	Prime			
	Fl	ow at Rated Power so	:fm (m³/min)	731 (20.7)	666 (18.9	)		
ENGINE				EXHAUST				
		Standby/Demand Response	Prime				Standby/Demand Response	Prime
Rated Engine Speed	RPM	1,800	1,800	Exhaust Flow (Rated Output)		scfm (m <sup>3</sup> /min)	2,378 (67.3)	2,142 (60.7)
Horsepower at Rated kW**	hp	589	530	Max. Backpressure (Post Silencer)		inHg (kPa)	0.75 (2.54)	0.75 (2.54)
Piston Speed	ft/min (m/mir	n) 1,680 (512)	1,680 (512)	Exhaust Temp (Rated Output - Pos	t Silencer)	°F (°C)	1,297 (702.8)	1,277 (691.7)
BMEP	psi (kPa)	194 (1,338)	175 (1,204)					

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

Deration - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards. Standby - See Bulletin 0187500SSB

Demand Response - See Bulletin 10000018250

Prime - See Bulletin 0187510SSB



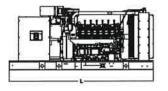
INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency and Non-Emergency

### **DIMENSIONS AND WEIGHTS\***

#### **DEMAND RESPONSE READY**

INDUSTRIAL

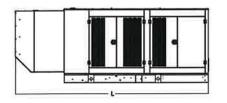


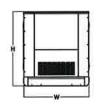


#### **OPEN SET (Includes Exhaust Flex)**

L x W x H - in (mm)	154.4 (3,922) x 71.0 (1,803) x 66.5 (1,689)
Weight - Ibs (kg)	7,286 - 8,650 (3,304 - 3,923)

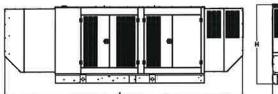
GENERAC



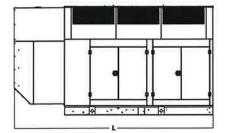


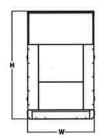
#### WEATHER PROTECTED ENCLOSURE

L x W x H - in (mm)	207.4 (5,268) x 71.0 (1,803) x 80.0 (2,032)
Weight - Ibs (kg)	Steel: 9,490 - 10,840 (4,304 - 4,916) Aluminum: 8,404 - 9,753 (3,811 - 4,423)









\* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

### Weight - lbs (kg)

L x W x H - in (mm)

LEVEL 1 SOUND ATTENUATED ENCLOSURE

247.5 (6,287) x 71.0 (1,803) x 80.0 (2,032) Steel: 10,498 - 11,847 (4,761 - 5,373) Aluminum: 8,818 - 10,185 (3,999 - 4,619)

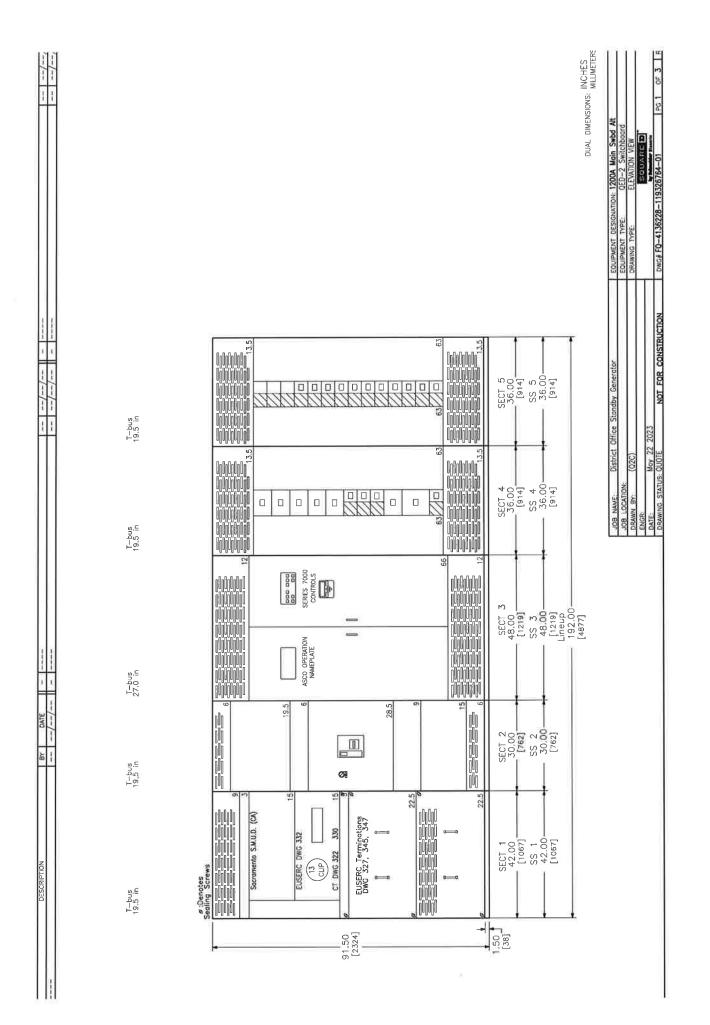
#### **LEVEL 2 SOUND ATTENUATED ENCLOSURE**

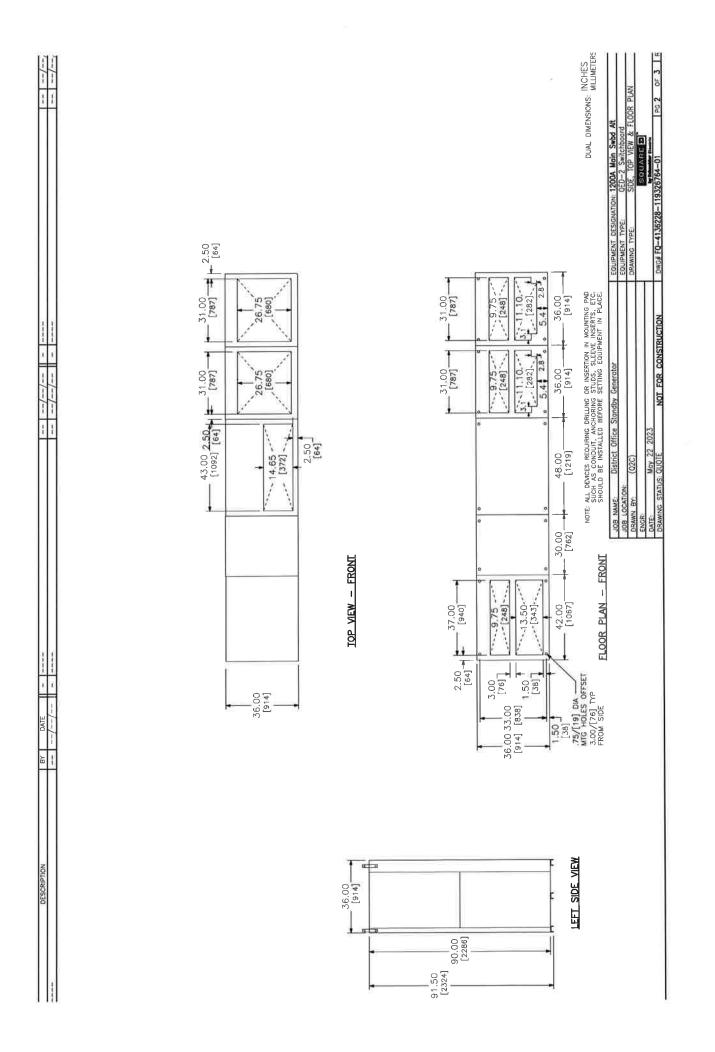
L x W x H - in (mm)	207.4 (5,268) x 71.0 (1,803) x 114.1 (2,898)
Weight - Ibs (kg)	Steel: 10,836 - 12,185 (4,914 - 5,526) Aluminum: 8,963 - 10,330 (4,065 - 4,685)

#### LEVEL 3 SOUND ATTENUATED ENCLOSURE

L x W x H - in (mm)	232.0 (5,893) x 76.9 (1,953) x 129.2 (3,282)
Weight - Ibs (kg)	13,224 - 14,285 (5,997 - 6,478)

6 61 6





DESCRIPTION	BY DATE I	[] <u>7</u> ]]	<u> </u>

#### SWITCHBOARD GENERAL NOTES

#### PRODUCT DI SCRIPTION & RATINGS

Power System Data

480Y/277V 3Ph 4W 60Hz / 3 Phase Wye Solidly Grounded System Short Circuit Current Rating: 65kA RMS Incoming Section 1 Coble Through the Bottom Left of Lineup

#### Bus System Data

1600A Tin/Aluminum & Silver/Copper Main Bus (2) .25x2.00 IN/6x51 mm Al Bus Bar Per Phase/Neutral (1) .25x1.50 IN/6x38 mm Al Ground Bus

#### Enclosure Data

Type 1 Free Standing Exterior Paint Color: ANSI 49 Front Accessibility Only Required Handling: Rollers & Lifting Assemblies Rodent barriers Bose channels cannot be removed from EUSERC switchboard line-ups Utility sealing hardware installed for unmetered bus comportments

#### Estimated Shippina Weight

Shipping Split 1 889.00 lbs / 403.25 kgs Shipping Split 2 585.00 lbs / 265.36 kgs Shipping Split 3 1438.00 lbs / 652.28 kgs Shipping Split 4 967.00 lbs / 438.63 kgs Shipping Split 5 842.00 lbs / 381.93 kgs Complete Lineup 4721.00 lbs / 2141.45 kgs

#### Code Standards

U.L. Deadfront and suitable for use as Service Entrance when not more than six (6) disconnecting means are provided, Section 3 built to UL1008 standards

#### Ratina Nameplates

ST1- Deadfront - Section Bus 1200A ST2- Service Entrance - Section Bus 1200A ST3- Deadfront - Section Bus 1200A

ST4- Deodfront - Section Bus 1200A

ST5- Deodfront - Section Bus 1200A

PRODUCT\_INFORMATION

Wiring

All wiring to be Machine Tool Wire type

Instruction Bulletins Reference 80043–055 For Handling, Installation, Anchoring, Inspection And Maintenance Information

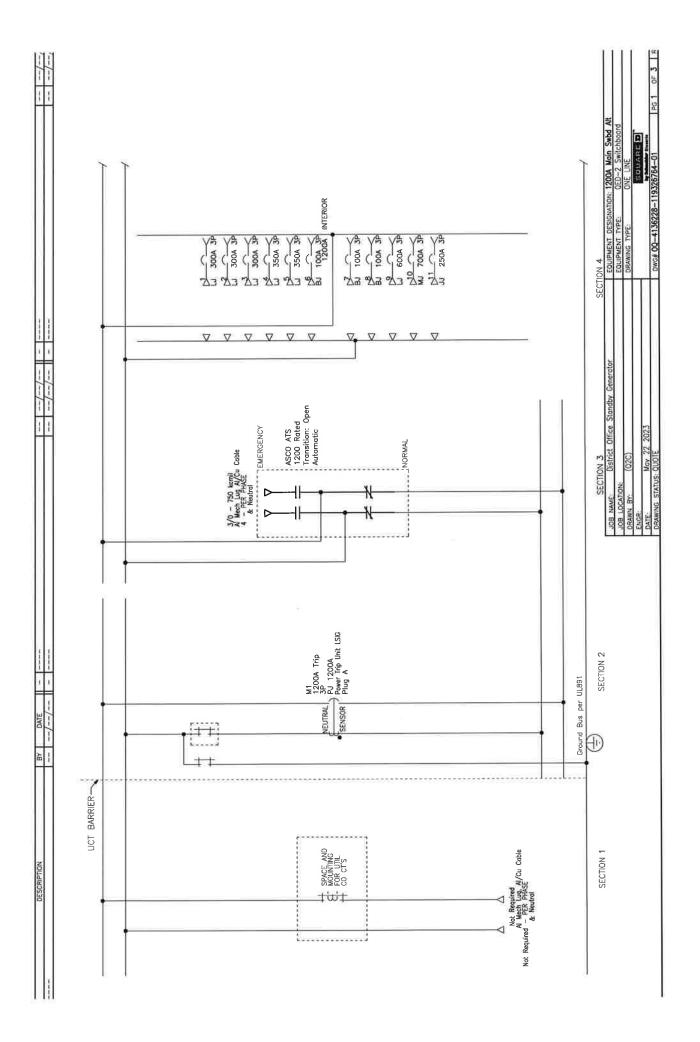
#### Product Accessories/Options

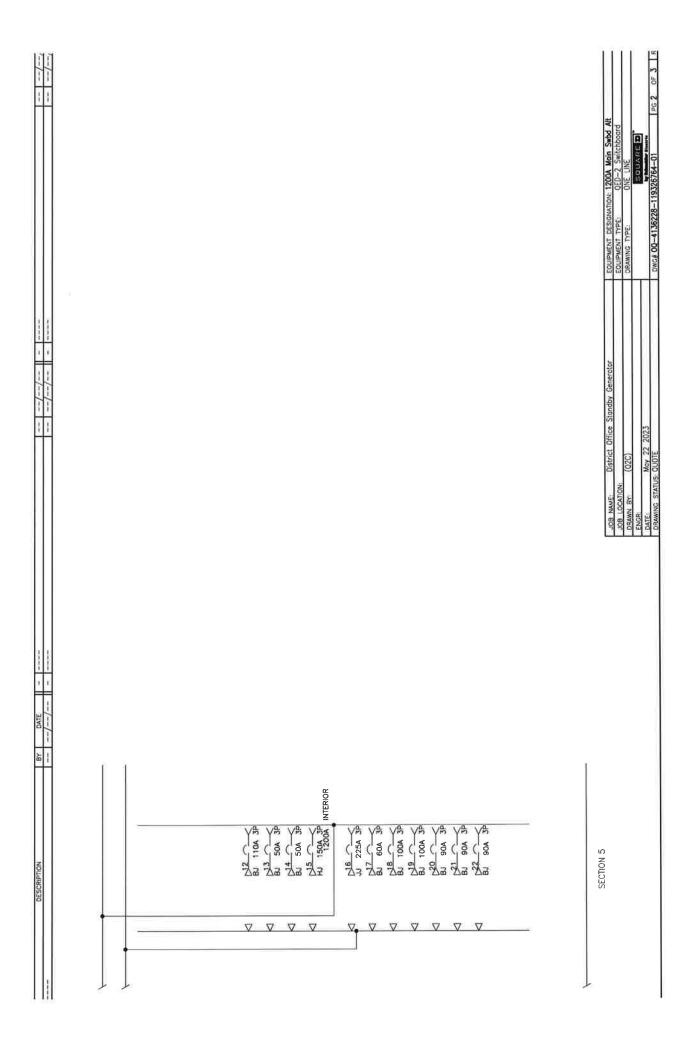
- ASCO Controller with Open Transition
- Automatic Transfer
- Emergency Coble Entrance: Top
- Switched Neutral

Seismic Qualified

- 24V Trip Unit Display Power
- Locally Mounted ERMS Switch

JOB NAME:	District Office	Standby Generator	EQUIPMENT DESIGNATION	N: 1200A Main Swbd	Alt		_
JOB LOCATION			EQUIPMENT TYPE:	QED-2 Switchboo	rd		
DRAWN BY:	(02C)		DRAWING TYPE:	GENERAL NOTES			_
ENGR:				SOUARE			
DATE:	Mcy 22 2023			by Balantider Blastrie			_
DRAWING STATI	US: QUOTE	NOT FOR CONSTRUCTION	DWG# FQ-4136228-11	19326764-01	PG 3	OF 3	R





	DESCRIPTION												<u>/    </u>
					POWER STYLE		ED-2	- SWITCHROARD				L	LEGEND
							ן רָ ו					ERM	ERMS Energy Reduction Maintenance St
CKT MD	DEVICE/FRAME	TRIP	FUSE/		DECIONATION	, i		LUG/WIRE INFORMATION	NFOR	AATION		5	Ground Fault
		AMP	TRIP	⊥ #	DEDIMINION		QTY P	OTY PHASE WIRE RANGE QTY	γīρ	NEUT WIRE RANGE	ACCESSORIES / NOTES	MX1	1 Shunt Trip
UCT -	12004	(î	ä	ġ.	Sacramento S.M.U.D. (CA)	Ŷ	4	3/0 - 750 kcmil	4	3/0 – 750 kcmil		PLA	Padlock Attachment-Fixed
M1 FIX	PJ 1200A Plug A	1200A	P-LSIG	3P		Ŷ	a.	3	a	ä	IGF PLA ERMS TU	2	24V Trip Unit Display Power
ATS FIX	ASCO ATS H FRAME 1200A	ĭ	ï	44		Ŷ	4	3/0 - 750 kcmil	4	3/0 – 750 kcmil			
.⊑ 0	10 400V	300A	S-L	Ъ		Ŷ	2	3/0 - 250 kcmil	3	3/0 - 250 kcmil			
.⊑ 9	LU 4004	300A	S-L	ЗP		Ŷ	2	3/0 - 250 kcmil	ы	3/0 – 250 kcmil			
.⊑ 9	1007	300A	S-LI	ЗP		Ŷ	5	3/0 - 250 kcmil	5	3/0 - 250 kcmil			
.⊑ 9	100V	350A	S-L	ЗP		Ŷ	2	3/0 - 250 kcmil	2	3/0 - 250 kcmil			
.⊑ 9	N00¥ 17	350A	S-LI	ЗP		No	2	3/0 - 250 kcmil	2	3/0 - 250 kcmil			
4.5 in	8	100A	Ĵ	Чč		٥N	-	#14 - 1/0 AWG	٦	#14 - 1/0 AWG			
4.5 in	23	100A	ĩ	ЗP		No	-	#14 - 1/0 AWG	٢	#14 - 1/0 AWG			
4.5 in	8	100A	Ũ	Ψ		°N	-	#14 - 1/0 AWG	۲	#14 - 1/0 AWG			
.ц. 9	FT 6004	600A	S−L	Ъ		٩	2	4/0 - 500kcmil	2	4/0 – 500kcmil			
9 in	з	700A	õ	ЗP		No	м	3/0 - 500 kcmil	ъ	3/0 – 500kcmil			
4.5 in	3	250A	10	ЗP		Ŷ	-	3/0 - 350 kcmil	-	3/0 – 350kcmil			
4.5 in	3	110A	a.	Ъ		°N No	-	#14 - 2/0 AWG	٢	#14 - 2/0 AWG			
4.5 in	8	50A	<u>(</u> 1)	Ъ		No	-	#14 - 1/0 AWG	٦	#14 - 1/0 AWG			
4.5 in	8	50A	9	ЗP		No		#14 - 1/0 AWG	۲	#14 - 1/0 AWG			
4.5 in	Ŧ	150A	1	ЗP		No	-	#6 - 3/0 AWG	-	#6 - 3/0 AWG			
4.5 in	3	225A	3	Ъ		No	-	3/0 – 350 kcmil	-	3/0 – 350kcmil			
17 4.5 in	в	60A	9	ЧÐ		Ŷ		#14 - 1/0 AWG	-	#14 - 1/0 AWG			
18 4.5 in	в	100A	3	Ъ	Shunt Trip	Ŷ	-	#14 - 1/0 AWG	-	#14 - 1/0 AWG	MX1		
19 4.5 in	в	100A	ï	ЗP	Shunt Trip	Ŷ	-	#14 - 1/0 AWG	1	#14 - 1/0 AWG	MX1	-	
20 4.5 in	8	906	ł	ЗP		No	-	#14 - 1/0 AWG	۲	#14 - 1/0 AWG			
21 4.5 in	BI	90A	ï	ЗР		No	-	#14 - 1/0 AWG	-	#14 - 1/0 AWG			
22 4.5 in	8	90A	ŝ	Ъ		Ŷ	÷	#14 - 1/0 AWG	-	#14 - 1/0 AWG		_	

PG 3 OF 3 F EQUIPMENT DESIGNATION: 1200A MGIn Swbd AR EQUIPMENT TYPE: 0ED-2 Switchboord DRAWING TYPE: SCHEDULE SDUARC D DWG# 00-4136228-119326764-01 Y District Office Standby Generator uog nawe: District Office 5 uog Locations: DRAWN BY: (02C) ENGR: May 22 2023 DRAWNG STATUS: QUOTE

# Square D QED-2 Low Voltage Switchboards

A tradition of distinction, with a mission to innovate solutions for tomorrow





by Schneider Electric

# A Tradition of Distinction

Square D QED-2 Low Voltage Custom Switchboards

Square D " QED-2 Switchboards set the standard for system solutions of today and those of tomorrow by delivering on higher expectations Judget O VCDV and the sense of designed to distribute electrical power and provide a reduced footprint without compromising performance or versatility.



Smart Systems Communications

Smart Systems Communications The Smart Systems solution provides Ethernet-networked metering and status data from Square D switchboards and electrical equipment. Masterpact and PowerPact Circuit breakers with Micrologic Trip units offer energy and power quality metering capabilities integrated into the trip units. Combined with Smart Systems communications, circuit breakers can be networked, monitored and controlled remotely, revealing opportunities to reduce downtime and monitor energy use for savings in electric system operating costs.

#### Accelerated Engineering

Meet tighter project schedules with AE Standard Switchboards It's the faster, better way to order, and options such as the ERMS switch are added easily through Accelerated Engineering

#### **Designed with the Customer in Mind**

Square D Switchboards allow for custom Square D Switchboards allow for custom engineering for each line-up such as Main-Tie-Mains, Automatic Transfers, Commercial Multi-Metering, and reduced height configurations.



Efficient Distribution The I-Line " distribution section is unique and popular - for its enhanced safety and ease of installation

The I-Line offers law-type connections which provide a firmer, more secure grip on the bus bar under high-level fault conditions for improved uptime. Distribution sections are available in single or double row construction allowing an increased power density in a compact footprint



Square D Switchboard ratings offer a robust solution through 5,000 A and 200 kA. Higher feeder ampacities are available with Individu ually mounted branch devices up to 4,000 A.



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The Quick Connect capability allows for a simple and seamless connection when Installing, Even though Square D Switchboards continue to become more Innovative, the quality and familiarity of the equipment leads the industry.

Energy Reduction Maintenance An ERMS switch helps meet the NEC 240.87 code for arc flash energy reduction, improving worker safety by modifying the trip curve. A "Maintenance Mode" switch is mounted on the switchboard.

Industry Leading Compact Footprint

Square D Switchboards were designed with the customer in mind. They provide front accessibility that aids in reducing footprint as well as provides convenient access for maintenance.



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# A Mission of Innovative Solutions

QED-2 Accelerated Engineering Standard Switchboards

To better meet our customer's tight schedules, our Square D QED-2 Standard Switchboard is available with Accelerated Engineering, which brings together standard designs for the most frequently requested ratings and options. With Accelerated Engineered Switchboards, on-demand approval drawings and an auto release of the equipment will allow you to stay competitive by simplifying the order process and offering a reduction In ship time. This means the customer will receive their switchboard 2 weeks faster. This allows for a quicker project turnaround for all parties involved, providing a competitive advantage in the industry.

### 🜟 Faster Project Turnaround

Accelerated Engineering Standard Switchboards offer a more responsive, faster and more flexible solution.

- > On-demand factory approval drawings
- > Auto release of Equipment to manufacturing
- Select designs with premier 4-week lead time

> 24/7 services support
 > Customer-focused order process
 > Customizable options available

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