

# KARUK TRIBE HOUSING AUTHORITY

P.O. Box 1159 • 635 Jacobs Way  
Happy Camp, CA 96039  
Ph: (530) 493-1414 • Fax: (530) 493-1415



1836 Apsuun Street  
Yreka, CA 96097  
Ph: (530) 842-1644 • Fax: (530) 842-1646

## NOTICE TO BIDDERS

<b>Today's Date:</b>	May 10, 2021
<b>General Description:</b>	All purchasing, labor, materials, travel necessary to remove existing propane generator and install new 45KW propane generator at the Headway Building located at 64101 Second Avenue in Happy Camp, Siskiyou County, California.
<b>Contact Information:</b>	Karuk Tribe Housing Authority 635 Jacobs Way, PO Box 1159, Happy Camp, CA 96039 Adia Supahan, (530) 493-1414, Extension 3110, <a href="mailto:asupahan@karuk.us">asupahan@karuk.us</a>
<b>Project Managers:</b>	Randy White, Project Manager (530)493-1414 Ext. 3112 (530)598-3911 <a href="mailto:rwhite@kark.us">rwhite@kark.us</a>
<b>Project Name:</b>	Headway Generator Replacement
<b>Site Visit:</b>	<b>Encouraged but not required</b>
<b>Submission:</b>	Hand Submission: 635 Jacobs Way, Happy Camp, CA Mail Delivery: PO Box 1159, Happy Camp, CA 96039 Email: <a href="mailto:asupahan@karuk.us">asupahan@karuk.us</a> Fax: (530) 493-1416
<b>Deadline:</b>	<b>Friday, May 21, 2021 by 5pm</b>

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## KARUK TRIBE HOUSING AUTHORITY REQUEST FOR LUMP SUM FIXED QUOTATION

### SOLICITATION FOR LUMP SUM FIXED-PRICE QUOTATIONS BASED ON PRICE ONLY (Small Purchases of \$150,000 or less)

**Due Date:** Friday, May 21, 2021 by 5pm

**Encouraged Site Visit:** Schedule site visit with Randy White at (530) 643-1415

**More Information:** Randy White: (530) 643-1415 [rwhite@karuk.us](mailto:rwhite@karuk.us)

1. The Karuk Tribe Housing Authority (KTHA) requests lump sum fixed-price quotations for all purchasing, labor, materials, and travel necessary to purchase a 45KW propane generator as outlined in Appendix B, remove and haul off existing generator and switch, install new 45KW propane generator and switch, connect to existing propane tanks, and run test to ensure it's running properly as outlined in the Scope of Work. The job site is at the Headway Building located at 64101 Second Avenue, Happy Camp, Siskiyou County, California.
2. KTHA is requesting these quotations under the small purchase procedures. This is a less formal, simplified process which will help us to expedite our selection. Because KTHA is following this process, we will not be able to accept quotations that are more than \$150,000.
3. Quotations are invited from non-Indian as well as Indian-owned economic enterprises or organizations.
4. Quotations may be submitted by email, mail, or hand delivery. All quotations must be submitted to KTHA in writing and emailed to [asupahan@karuk.us](mailto:asupahan@karuk.us), mailed or hand delivered to PO Box 1159, 635 Jacobs Way, Happy Camp, CA 96039 by **Friday, May 21, 2021 by 5pm**.
5. The Scope of Work is as set forth on Appendix A, attached to this Solicitation. Anyone submitting a quotation for this work is encouraged to visit the job site to ascertain the nature and location of work and to satisfy itself as to the general and local conditions which can affect the work. A site visit can be made by appointment only with Randy White at (530) 643-1415.
6. **Indian Preference.** Any firm seeking Indian preference in this award must provide evidence that it is not less than 51% Indian owned and controlled. If claiming this preference, please contact us immediately so that we can fax you a pre-qualification statement that you must fill out and return within two days of your receipt. KTHA will then review the statement and determine eligibility for preference.
7. **Award.** The contract will only be awarded to a responsive, responsible individual or firm. The contract will be awarded to a qualified Indian enterprise submitting the lowest responsive quotation if such quotation is within budgeting limits established for this solicitation and is within the limits identified in the KTHA Procurement Policy regarding Indian preference in contracting. If no responsive quotation by a qualified Indian enterprise is within the above-stated limits, then award will be made to the individual or firm with the lowest responsive quotation.
8. All quotations must contain a commitment to provide Indian preference in 1) subcontracting, 2) training, and 3) employment, and must contain a statement describing the methods that will be used to provide such preferences. This statement is part of the submitted quotation. This statement will be evaluated as part of the submitted quotation, and any quotation failing to contain such preference statement or failing to adequately address such preference requirements shall be deemed non-

responsive. If you believe it is infeasible to provide Indian preference in subcontracting, training, or employment, you must include in your quotation a certification as to the reasons why.

9. The form of Contract which contains the terms and provisions of the contract agreement between KTHA and the individual or firm selected for this work is available for review upon request. By submitting a quotation, you hereby agree that if selected, you shall deliver to the Authority, within the time later designated by the Authority, a properly executed Contract and to be bound by all terms and conditions set forth therein, including but not limited to assurance of performance, completion dates, prevailing wage rates, warranties, other federal requirements, and other terms and provisions as set forth therein.
10. All quotations must commit to remaining open for at least 45 days.
11. The selected contractor will be responsible for paying all Tribal license fees and taxes, as well as permits that may be required, if any.
12. The successful individual or firm on this solicitation must comply with the Tribe's TERO Ordinance, including any licensing requirements. This includes, but is not limited to, paying a 2% TERO fee on the work to be performed. Tribal minimum wage rates shall apply. For a copy of the TERO Ordinance and more information, the Karuk Tribe TERO Director, should be contacted at (530) 493-1600 ext. 2030.
13. This solicitation does not commit KTHA to award a contract or to pay any costs incurred in the preparation of quotation or the procurements of supplies. KTHA reserves the right to reject any and all quotations or to re-solicit when it is deemed by KTHA to be in its best interest to do so.
14. If there are any questions, please contact **Randy White at (530) 643-1415 or [rwhite@karuk.us](mailto:rwhite@karuk.us)** KTHA will let you know the decision of the award.

**APPENDIX A**  
**To Request for Lump Sum Fixed-Price Quotation**  
**SCOPE OF WORK**

1. Quotations shall include all purchasing, labor, materials, and travel necessary purchase a 45KW propane generator as outlined in Appendix B, remove and haul off existing generator and switch, install new 45KW propane generator and switch, connect to existing propane tanks, and run test to ensure it's running properly as outlined in the Scope of Work. The job site is at the Headway Building located at 64101 Second Avenue, Happy Camp, Siskiyou County, California.
2. The quotation shall include the purchase of a Generac 45KW propane generator or equivalent as outlined in Appendix F and all other parts necessary to install the generator. NOTE: Generator substitutions must be pre-approved prior to purchase.
3. Quotations shall include removal and haul off the existing generator and all associated parts.
4. Quotations shall include installation of the Generac 45KW generator (or equivalent) and generator switch.
  - a. Must place new generator on existing generator pad
  - b. Must connect generator to existing propane tanks
  - c. Must install generator to automatically turn on in the event of a power outage
  - d. Must do a test run to ensure generator installation is complete and operable
5. Bidder shall be bonded, insured, and hold the appropriate license and/or certification for the work to be performed.
6. All bids must include a TERO fee of 2% on the total bid amount and completed TERO Compliance Plan (Appendix D).
7. Tribal wage rates (Appendix B) and Indian preference will apply.
8. Questions may be directed to Randy White ([rwhite@karuk.us](mailto:rwhite@karuk.us)), Project Manager at (530) 643-1415.
9. Contact Randy White to schedule a site visit (recommended).
10. Proposals may be submitted by email, mail, or hand delivery. All quotations must be submitted to KTHA in writing and can be emailed to [asupahan@karuk.us](mailto:asupahan@karuk.us), mailed or hand delivered to PO Box 1159, 635 Jacobs Way, Happy Camp, CA 96039 by **Friday, May 21, 2019 by 5pm**. Faxes will NOT be accepted.

**APPENDIX B**  
**To Request for Lump Sum Fixed-Price Quotation**

**TRIBAL WAGE RATES**

<b>KARUK TRIBAL WAGE RATES</b>	
<b>Updated April 2011</b>	
<b>Position:</b>	<b>Rate:</b>
CARPENTER	17.00
CEMENT MASON	16.00
ELECTRICIAN	18.00
LABORER	12.00
PAINTER	13.00
PLUMBER	18.00
ROOFER	14.00
SHEET METAL WORKER	18.00
BRIDGE BUILDER	17.00
PILE DRIVER	23.00
MILLWRIGHT	18.00
LINE CONSTRUCTION	22.00
COMMUNICATION SYS	18.00
HEAVY EQUIP OPERAT	16.00
IRON WORKERS	17.00
PLASTERER	16.00
BRICK TENDER	16.00
LANDSCAPE/GARDEN	12.00
DRYWALL FINISHER	16.00
GLAZIER	14.00
SOFT FLOOR LAYER	15.00
TRUCK DRIVER	13.00
TILE SETTER	15.00
BRICK LAYER	17.00

**APPENDIX C**  
**To Request for Lump Sum Fixed-Price Quotation**

**LUMP SUM FIXED PRICE QUOTATION**

ITEMS	PRICE
TERO Tax (2% of Subtotal)	
<b>Total Bid Amount</b>	<b>\$</b>

Respectfully Submitted by,

Signature: \_\_\_\_\_

Name/Title: \_\_\_\_\_

Firm: \_\_\_\_\_

Address: \_\_\_\_\_

License Number: \_\_\_\_\_

Phone Number: \_\_\_\_\_

**APPENDIX D**  
**To Request for Lump Sum Fixed-Price Quotation**

**TRIBAL EMPLOYMENT RIGHTS OFFICE**  
**COMPLIANCE PLAN FOR BIDDERS**

Bidder/Employer Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City, State and Zip Code: \_\_\_\_\_

Contact Person: \_\_\_\_\_ Phone Number: \_\_\_\_\_

E-mail: \_\_\_\_\_

Bid Amount: \$ \_\_\_\_\_ TERO Fee (2%): \$ \_\_\_\_\_

**THIS IS AN AGREEMENT BETWEEN THE KARUK TRIBE’S TRIBAL EMPLOYMENT RIGHTS OFFICE (TERO) AND \_\_\_\_\_, HEREINAFTER KNOWN AS “EMPLOYER” CONDUCTING COMMERCE AND EMPLOYMENT ACTIVITY WITHIN THE ANCESTRAL TERRITORY OF THE KARUK TRIBE.**

- Employer shall provide the completed compliance plan with the submission of bid.
- Upon notification of the award, Employer shall contact the TERO Office within ten (10) days prior to any work to be performed.
- Employer shall contact the TERO Office and Contract/Project Manager immediately, in writing, advising of any contract or sub-contractor changes to obtain approval prior to working on the job site.
- Employer understands and agrees to comply with the requirements and procedures in the selection of contractors, sub-contractors, employees and recruitment of viable Indian applicants in accordance with the Karuk Tribe’s Employment Rights Ordinance and the Karuk Tribe’s Workforce Protection Act (WPA).

By signing below the Employer certifies the position information is true and correct and there have been no omissions in the completion of the labor force projections. Falsification of the information provided will result in sanctions, penalties, fines and/or debarment with the Karuk Tribe.

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Employer Signature \_\_\_\_\_ Date \_\_\_\_\_

**PRE-AWARD LABOR FORCE PROJECTION**

**Core Crew:** Is defined as a member of a business, Contractor or Subcontractor’s crew who is a regular employee and is in a supervisory or other key position such that the employer would face a serious financial loss if that position were filled by a person who had not previously worked for that employer.

**All other positions** will be filled by the TERO office unless sufficient justification can be made that they are not replaceable for the work that is to be done or unless TERO does not have an individual to refer.

List Core Crew (Full Name):	Job Title/ Years w/Company/Justification:

**List Native American Contractors/Sub-contractors to be hired for this Project:**

Contractor/Sub-contractor Contact Person, Phone # and E-mail:	Work to be Performed:



**List Non-Native Contractor/Sub-contractors to be hired for this Project:**

Contractor/Sub-contractor Contact Person, Phone # and E-mail:	Work to be Performed:

**Open Positions:** Employer agrees to hire 100% of all its open positions/Sub-contractors for this project through the TERO Skills Bank. If Employer is unable to hire 100% then company representatives will need to meet with the TERO Director. Failure to comply with this hiring requirement will result in sanctions and/or penalties.

Job Title/Sub-contractor Needed:	Skills Required:

Number of positions to be filled for this project: \_\_\_\_\_  
 Contact person/info for job referrals: \_\_\_\_\_  
 Date TERO referrals needed: \_\_\_\_\_ Job start date: \_\_\_\_\_

**For Internal Use Only:**

Contract Number #: \_\_\_\_\_ Project Manager: \_\_\_\_\_

TERO Office Approval \_\_\_\_\_ Date: \_\_\_\_\_

**Comments:**

**APPENDIX E**  
**To Request for Lump Sum Fixed-Price Quotation**

1) Location Map: 64101 Second Avenue, Happy Camp, CA 96039:



**Headway Building**

**GENERAC®****Protector®  
Series****PROTECTOR® SERIES  
Standby Generators  
Liquid-Cooled Gaseous Engine****INCLUDES:**

- Two-Line LCD Multilingual Digital Evolution™ Controller (English/Spanish/French/Portuguese) with external viewing window for easy indication of generator status and breaker position.
- Capability to be installed with 18" (457mm) of a building\*
- True Power™ Electrical Technology
- Isochronous Electronic Governor
- Sound Attenuated Enclosure
- Closed Coolant Recovery System
- Smart Battery Charger
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Natural Gas or LP Operation
- 5 Year Limited Warranty
- UL 2200 Listed

Note: 25-45 kW units are field convertible between natural gas or liquid propane. 60 kW units are built per fuel requirement and are not convertible.

\*Only if located away from doors, windows, and fresh air intakes, and unless otherwise directed by local codes. Applicable for 25kW and 30kW units only.

## Standby Power Rating

Model RG025 (Aluminum - Bisque) - 25 kW 60 Hz  
 Model RG030 (Aluminum - Bisque) - 30 kW 60 Hz  
 Model RG036 (Aluminum - Bisque) - 36 kW 60 Hz  
 Model RG045 (Aluminum - Bisque) - 45 kW 60 Hz  
 Model RG060 (Aluminum - Bisque) - 60 kW 60 Hz

**QUIET-TEST.**
\*Assembled in the USA using domestic and foreign parts

Meets EPA Emission Regulations  
 25, 30 & 45 kW CA/MA emissions compliant  
 36 & 60 kW not for sale in CA / MA

**FEATURES**

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- **TEST CRITERIA:**
  - ✓ **PROTOTYPE TESTED**
  - ✓ **SYSTEM TORSIONAL TESTED**
  - ✓ **NEMA MG1-22 EVALUATION**
  - ✓ **MOTOR STARTING ABILITY**
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at ±1%.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES.** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.

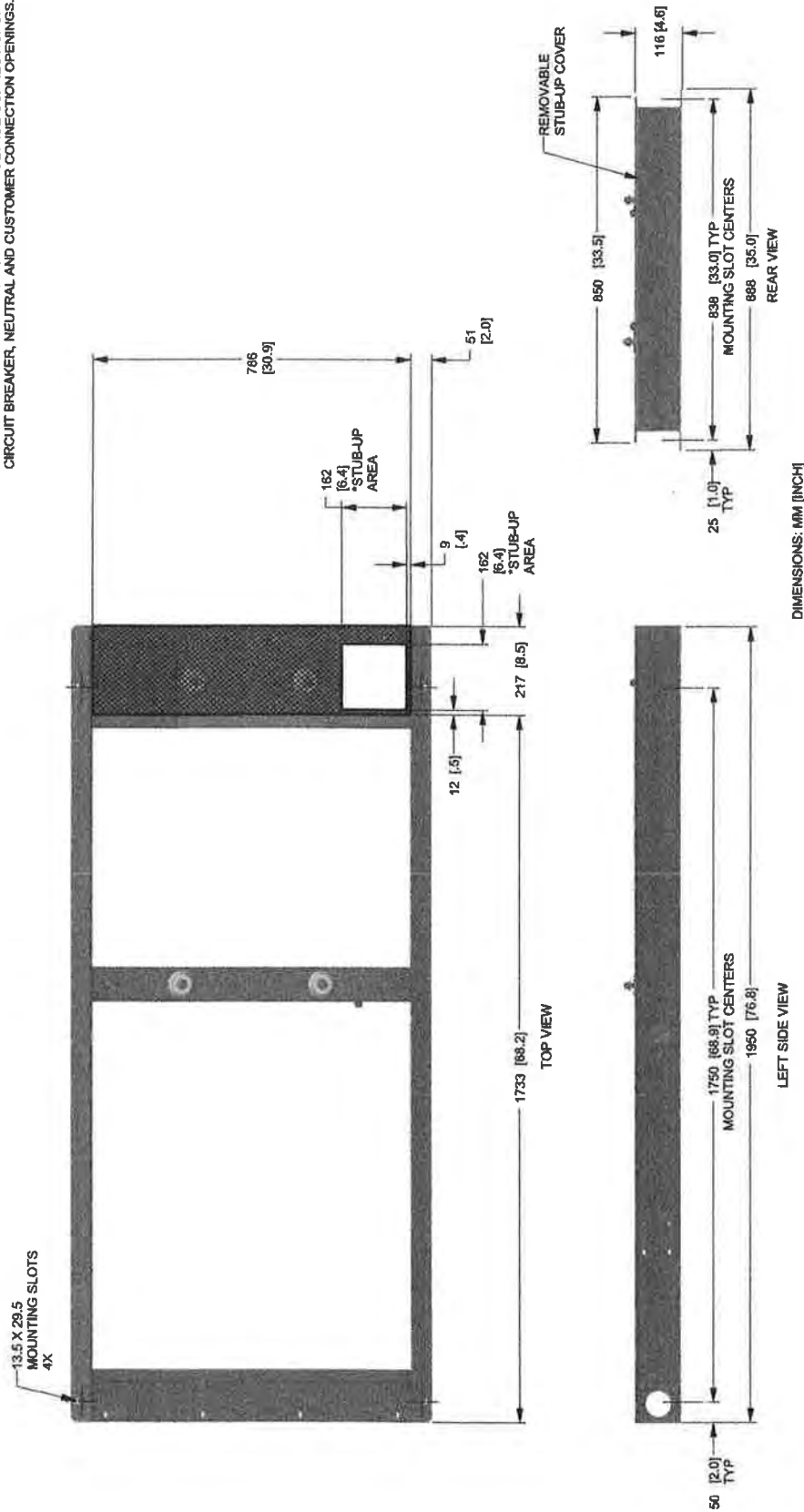
**GENERAC®**

# 36 & 45 kW

## installation layout

Drawing #0K8636-B (2 of 2)

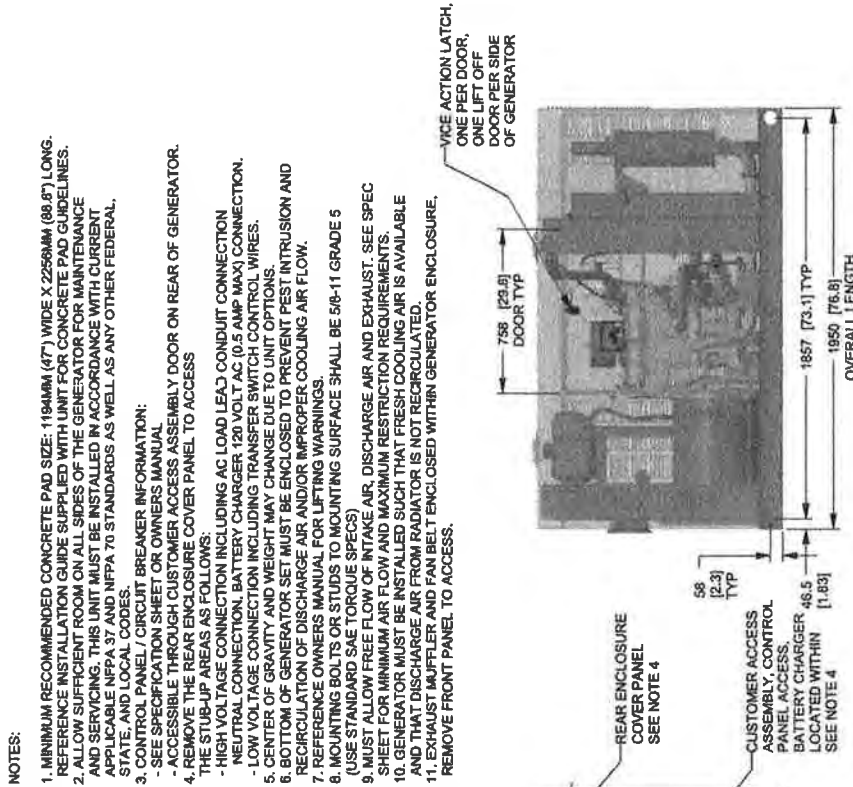
\*NOTE - STUB-UP AREA FOR HIGH AND LOW VOLTAGE CONNECTIONS, CIRCUIT BREAKER, NEUTRAL AND CUSTOMER CONNECTION OPENINGS.



# 36 & 45 kW

Drawing #0K8636-B (1 of 2)

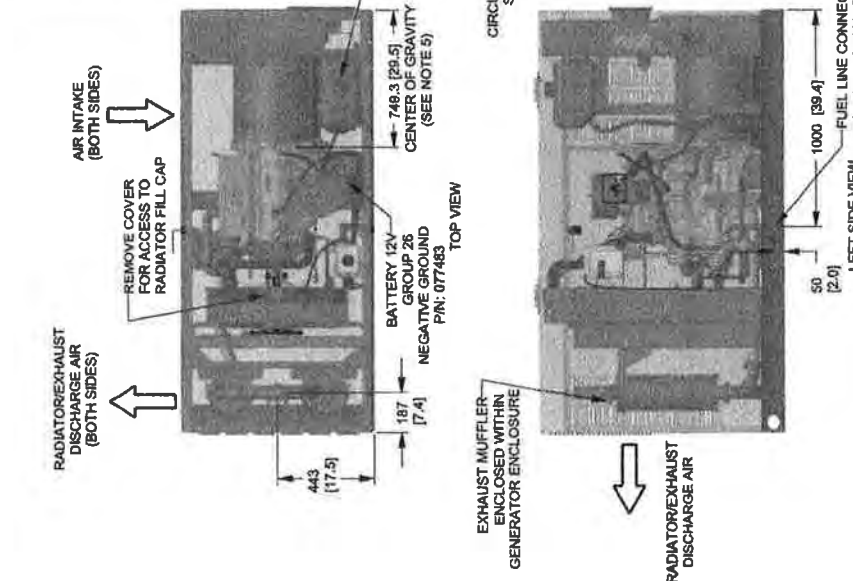
## installation layout



SERVICE ITEM	2-AL
OIL FILL CAP	EITHER SIDE
OIL DIP STICK	RIGHT SIDE
OIL FILTER	RIGHT SIDE
OIL DRAIN HOSE	RIGHT SIDE
RADIATOR DRAIN HOSE	LEFT SIDE
COOLANT RECOVERY BOTTLE	LEFT SIDE
RADIATOR FILL CAP	ROOF TOP
AIR CLEANER ELEMENT	LEFT SIDE
SPARK PLUGS	LEFT SIDE
MUFFLER	SEE NOTE 11
DRIVE BELT	EITHER SIDE
FAN BELT	SEE NOTE 11
BATTERY	LEFT SIDE
LUBE OIL MAINTAINER SUPPLY TANK FILL CAP	ROOF TOP

REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS.

REMOVE COVER FOR ACCESS TO LUBE OIL MAINTAINER SUPPLY TANK REFERENCE OWNERS MANUAL



DIMENSIONS: MM [INCH]

ENGINE/KW	ENCLOSURE MATERIAL	WEIGHT DATA	
		WEIGHT GENSET ONLY KG (LBS)	WEIGHT SHIPPING SKID KG (LBS)
2-AL 36kW	ST	568 [1258]	615 [1355]
2-AL 36kW	AL	546 [1202]	590 [1300]
2-AL 45kW	ST	596 [1315]	640 [1411]
2-AL 45kW	AL	572 [1260]	616 [1359]

**NOTES:**

- MINIMUM RECOMMENDED CONCRETE PAD SIZE: 194MM (47") WIDE X 2256MM (88.8") LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
- ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
- CONTROL PANEL / CIRCUIT BREAKER INFORMATION:  
-SEE SPECIFICATION SHEET OR OWNERS MANUAL  
-ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
- REMOVE THE REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:  
-HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.  
-LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES.
- CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
- BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
- REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
- MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)
- MUST ALLOW FREE FLOW OF INTAKE AIR, DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
- GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED.
- EXHAUST MUFFLER AND FAN BELT ENCLOSED WITHIN GENERATOR ENCLOSURE. REMOVE FRONT PANEL TO ACCESS.

## 25 • 30 • 36 • 45 • 60 kW

## operating data

### ENGINE COOLING

	25 kW	30 kW	36 kW	45 kW	60 kW
Air flow (inlet air including alternator and combustion air in cfm/cmm)	2490/70.5	2490/70.5	2725/77.2	2725/77.2	3280/92.9
System coolant capacity (gal/liters)	2/7.6	2/7.6	2.5/9.5	2.5/9.5	2.5/9.5
Heat rejection to coolant (BTU per hr/MJ per hr)	112,000/118.2	135,000/142.4	193,000/203.6	193,000/203.6	270,000/284.9
Maximum operation air temperature on radiator (°C/°F)	60/140				
Maximum ambient temperature (°C/°F)	50/122				

### COMBUSTION REQUIREMENTS

Flow at rated power (cfm/cmm)	62/1.8	72/2	144/4.1	144/4.1	180/5.1
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### SOUND EMISSIONS

Sound output in dB(A) at 23 ft (7 m) with generator in exercise mode*	59	59	61	61	65
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load*	72	73	70	73	72

\*Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters.

### EXHAUST

Exhaust flow at rated output (cfm/cmm)	203/5.7	237/6.7	300/8.5	420/11.9	494/14
Exhaust temperature at muffler outlet (°C/°F)	593/1100	610/1130	579/1075	593/1100	566/1050

### ENGINE PARAMETERS

Rated Synchronous rpm	3600
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### POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature Deration ..... 3% for every 10 °C above 25 °C or 1.65% for every 10 °F above 77 °F  
 Altitude Deration (25, 30, 36 & 45 kW) ..... 1% for every 100 m above 183 m or 3% for every 1000 ft above 600 ft  
 Altitude Deration (60 kW) ..... 1% for every 100 m above 915 m or 3% for every 1000 ft above 3000 ft

### CONTROLLER FEATURES

Two-Line Plain Text LCD Display ..... Simple user interface for ease of operation.  
 Mode Switch: Auto ..... Automatic Start on Utility failure. 7 day exerciser  
                   Off ..... Stops unit. Power is removed. Control and charger still operate.  
                   Manual ..... Start with starter control, unit stays on. If utility fails, transfer to load takes place.  
 Programmable start delay between 10-30 seconds ..... 10 sec Standard  
 Engine Start Sequence ..... Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration)  
 Engine Warm-up ..... 5 sec  
 Engine Cool-Down ..... 1 min  
 Starter Lock-out ..... Starter cannot re-engage until 5 sec after engine has stopped.  
 Smart Battery Charger ..... Standard  
 Automatic Voltage Regulation with Over and Under Voltage Protection ..... Standard  
 Automatic Low Oil Pressure Shutdown ..... Standard  
 Overspeed Shutdown ..... Standard, 72 Hz  
 High Temperature Shutdown ..... Standard  
 Overcrank Protection ..... Standard  
 Safety Fused ..... Standard  
 Failure to Transfer Protection ..... Standard  
 Low Battery Protection ..... Standard  
 50 Event Run Log ..... Standard  
 Future Set Capable Exerciser ..... Standard  
 Incorrect Wiring Protection ..... Standard  
 Internal Fault Protection ..... Standard  
 Common External Fault Capability ..... Standard  
 Governor Failure Protection ..... Standard

## 25 • 30 • 36 • 45 • 60 kW

## operating data

### GENERATOR OUTPUT VOLTAGE/kW - 60 Hz

		kW LPG	Amp LPG	kW Nat. Gas	Amp Nat. Gas	CB Size (Both)
RG025	120/240 V, 1Ø, 1.0 pf	25	104	25	104	125
	120/208 V, 3Ø, 0.8 pf	25	87	25	87	100
	120/240 V, 3Ø, 0.8 pf	25	75	25	75	90
RG030	120/240 V, 1Ø, 1.0 pf	30	125	30	125	150
	120/208 V, 3Ø, 0.8 pf	30	104	30	104	125
	120/240 V, 3Ø, 0.8 pf	30	90	30	90	100
RG036	120/240 V, 1Ø, 1.0 pf	36	150	36	150	175
	120/208 V, 3Ø, 0.8 pf	36	125	36	125	150
	120/240 V, 3Ø, 0.8 pf	36	108	36	108	125
	277/480 V, 3Ø, 0.8 pf	36	54	36	54	60
RG045	120/240 V, 1Ø, 1.0 pf	45	188	45	188	200
	120/208 V, 3Ø, 0.8 pf	45	156	45	156	175
	120/240 V, 3Ø, 0.8 pf	45	135	45	135	150
	277/480 V, 3Ø, 0.8 pf	45	68	45	68	80
RG060	120/240 V, 1Ø, 1.0 pf	60	250	60	250	300
	120/208 V, 3Ø, 0.8 pf	60	208	60	208	250
	120/240 V, 3Ø, 0.8 pf	60	180	60	180	200
	277/480 V, 3Ø, 0.8 pf	60	90	60	90	100

### SURGE CAPACITY IN AMPS

		Voltage Dip @ < .4 pf	
		15%	30%
RG025	120/240 V, 1Ø	65	170
	120/208 V, 3Ø	80	130
	120/240 V, 3Ø	69	112
RG030	120/240 V, 1Ø	75	180
	120/208 V, 3Ø	96	155
	120/240 V, 3Ø	83	134
RG036	120/240 V, 1Ø	105	240
	120/208 V, 3Ø	44	130
	120/240 V, 3Ø	38	115
	277/480 V, 3Ø	20	60
RG045	120/240 V, 1Ø	105	240
	120/208 V, 3Ø	44	130
	120/240 V, 3Ø	38	115
	277/480 V, 3Ø	20	60
RG060	120/240 V, 1Ø	140	320
	120/208 V, 3Ø	70	210
	277/480 V, 3Ø	30	91

### ENGINE FUEL CONSUMPTION

		Natural Gas		Propane		
		(ft <sup>3</sup> /hr)	(m <sup>3</sup> /hr)	(gal/hr)	(l/hr)	(ft <sup>3</sup> /hr)
RG025	Exercise cycle	60	1.7	0.7	2.5	24
	25% of rated load	220	6.3	2.9	9.1	88
	50% of rated load	297	8.4	3.3	12.3	119
	75% of rated load	362	10.3	4	15	145
	100% of rated load	430	12.2	4.7	17.8	172
RG030	Exercise cycle	60	1.7	0.7	2.5	24
	25% of rated load	240	6.8	2.6	10	96
	50% of rated load	320	9.1	3.5	13.3	128
	75% of rated load	400	11.4	4.4	16.6	160
	100% of rated load	492	14	5.4	20.4	197
RG036	Exercise cycle	65	1.8	0.7	2.6	25
	25% of rated load	210	6	2.3	8.6	83
	50% of rated load	380	10.8	4.2	15.7	151
	75% of rated load	545	15.5	5.9	22.4	216
	100% of rated load	730	20.7	8	30.1	290
RG045	Exercise cycle	65	1.8	0.7	2.6	25
	25% of rated load	210	6	2.3	8.6	83
	50% of rated load	380	10.8	4.2	15.7	151
	75% of rated load	545	15.5	5.9	22.4	216
	100% of rated load	730	20.7	8	30.1	290
RG060	Exercise cycle	123	3.5	1.34	5.1	49.3
	25% of rated load	267	7.6	2.7	10.5	101
	50% of rated load	483	13.7	5	19	183
	75% of rated load	672	19.1	7	26.5	255
	100% of rated load	862	24.5	9	33.9	327

Note: Fuel pipe must be sized for full load.

For Btu content, multiply ft<sup>3</sup>/hr x 2520 (LP) or ft<sup>3</sup>/hr x 1000 (NG)

For megajoule content, multiply m<sup>3</sup>/hr x 93.15 (LP) or m<sup>3</sup>/hr x 37.26 (NG)

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

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

**25 • 30 • 36 • 45 • 60 kW**
**application & engineering data**
**GENERATOR SPECIFICATIONS**

Type	Synchronous
Rotor Insulation Class	H
Stator Insulation Class	H
Telephone Interference Factor (TIF)	<50
Alternator Output Leads 1-Phase	4 wire
Alternator Output Leads 3-Phase	6 wire
Bearings	Sealed Ball
Coupling	Flexible Disc
Excitation System	Direct

**VOLTAGE REGULATION**

Type	Electronic
Sensing	Single Phase
Regulation	± 1%

**GOVERNOR SPECIFICATIONS**

Type	Electronic
Frequency Regulation	Isochronous
Steady State Regulation	± 0.25%

**ELECTRICAL SYSTEM**

Battery Charge Alternator	12 Volt 15 Amp - 25 & 30 kW 12 Volt 30 Amp - 36, 45 & 60 kW
Static Battery Charger	2 Amp
Recommended Battery (battery not included)	Group 26, 525CCA
System Voltage	12 Volts

**GENERATOR FEATURES**

Revolving field heavy duty generator Directly connected to the engine Operating temperature rise 120 °C above a 40 °C ambient Class H insulation is NEMA rated All models fully prototyped tested
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**ENCLOSURE FEATURES**

Aluminum weather protective enclosure	Ensures protection against mother nature. Electrostatically applied textured epoxy paint for added durability.
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
Small, compact, attractive	Makes for an easy, eye appealing installation.
SAE	Sound attenuated enclosure ensures quiet operation.

**ENGINE SPECIFICATIONS: 25 & 30 kW**

Make	Generac
Model	In-line
Cylinders	4
Displacement (Liters)	1.5
Bore (in/mm)	3.05/77.4
Stroke (in/mm)	3.13/79.5
Compression Ratio	11:1
Intake Air System	Naturally Aspirated
Lifter Type	Hydraulic

**ENGINE SPECIFICATIONS: 36, 45 & 60 kW**

Make	Generac
Model	In-line
Cylinders	4
Displacement (Liters)	2.4
Bore (in/mm)	3.41/86.5
Stroke (in/mm)	3.94/100
Compression Ratio	9.5:1
Intake Air System	Naturally Aspirated (36 & 45 kW) or Turbocharged/Aftercooled (60 kW)
Lifter Type	Hydraulic

**ENGINE LUBRICATION SYSTEM**

Oil Pump Type	Gear
Oil Filter Type	Full flow spin-on cartridge
Crankcase Capacity (qt/l)	4/3.8 - 25, 30, 36 & 45 kW 5.25/4.96 - 60 kW

**ENGINE COOLING SYSTEM**

Type	Closed
Water Pump	Belt driven
Fan Speed (rpm)	2484 - 25 & 30 kW 1865 - 36 & 45 kW 2100 - 60 kW
Fan Diameter (in/mm)	17.7/449.6 (25 & 30 kW) or 22/558.8 (36, 45 & 60 kW)
Fan Mode	Pusher (25 & 30 kW) or Puller (36, 45 & 60 kW)

**FUEL SYSTEM**

Fuel Type	Natural gas, propane vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure	5-14" water column/9-26 mm HG
LP Fuel Pressure	11 - 14" Water Column
NG Fuel Pressure	5 - 14" Water Column

(All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271)