

RESOLUTION NO. 23-124

A RESOLUTION OF THE CITY OF PANAMA CITY BEACH, FLORIDA, APPROVING THE PURCHASE FROM ACF STANDBY SYSTEMS, LLC OF A MOBILE GENERATOR FOR THE UTILITIES DEPARTMENT, IN THE TOTAL AMOUNT OF \$55,792.50; AGREEING TO BE BOUND BY THE TERMS OF THAT CERTAIN AGREEMENT BETWEEN THE FLORIDA SHERIFFS ASSOCIATION AND ACF STANDBY SYSTEMS, LLC GOVERNING THAT PURCHASE; AND AUTHORIZING A BUDGET AMENDMENT.

BE IT RESOLVED by the City Council of the City of Panama City Beach that:

1. The appropriate officers of the City are authorized to execute and deliver on behalf of the City that certain proposal between the City and ACF Standby Systems, LLC, relating to the purchase of a Generac mobile generator for the Utilities Department, in the total amount of Fifty-Five Thousand, Seven Hundred Ninety-Two Dollars and Fifty Cents (\$55,792.50), in substantially the form **attached** as Exhibit A and presented to the Council today, with such changes, insertions or omissions as may be approved by the City Manager.
2. By accepting the proposal referenced above, that the City agrees to be bound to the same terms and conditions as were obtained by the Florida Sheriffs Association, through an advertised, competitive bidding process, Contract No. FSA20-EQU18.0, in the form **attached** as Exhibit B.
3. The following budget amendment #21 is adopted for the City of Panama City Beach, Florida, for the fiscal year beginning October 1, 2022 and ending September 30, 2023, as shown in and in accordance with the **attached** and incorporated Exhibit C.

THIS RESOLUTION shall be effective immediately upon passage.

PASSED in regular session this 23rd day of February, 2023.

CITY OF PANAMA CITY BEACH

By: 
Mark Sheldon, Mayor

ATTEST:


Lynne Fasone, City Clerk

**CITY OF PANAMA CITY BEACH
BUDGET TRANSFER FORM BF-10**

BA# 21

| | LEDGER ACCOUNT | ACCOUNT DESCRIPTION | APPROVED BUDGET | BUDGET ADJUSTMENT | AMENDED BUDGET |
|---------------------------------|--------------------|-------------------------------------|-----------------|--------------------|----------------|
| TO | 401-3500-535.64-20 | Machinery and Equipment | 2,001,800.00 | 55,800.00 | 2,057,600.00 |
| FROM | 401-8100-999.96-00 | Reserves Available for Expenditures | 39,276,313.00 | (55,800.00) | 39,220,513.00 |
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| | | | | | |
| Check Adjustment Totals: | | | 41,278,113.00 | 0.00 | 41,278,113.00 |

BRIEF JUSTIFICATION FOR BUDGET ADJUSTMENT:
to appropriate funding from available reserves for the purchase of one Genrac mobile diesel generator for the utility department
in the amount of \$55,792 (rounded to (\$55,800)

FINANCE REVIEW: _____
RESOLUTION #: _____
DATE: _____



A-F Standby Systems
Power Generation



Date: February 13, 2023

To: Leah Bailey, CAP

Reference: City of Panama City Beach – MMG55DF4 – **REV3**

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

FSA20-EQU18.0: HEAVY EQUIPMENT

- 150kW Mobile Generator Package – Generac MDG175DF4, Item # 120\$92,016.00
- **DOWNGRADE to MMG55DF4 Mobile Diesel Generator.....\$38,600.00**
- **Upgrade Generator Package, Optional Equipment Option + \$1,851.50**
 - **Camlok Connection**
 - **30% Discount on Optional Equipment Applied**
 - **Upgrading from Lug connection only to Camlok Connections**
 - **Current List Price to Upgrade = \$2,645.00**
 - **30% Discount Applied =\$1,851.50**
- **Upgrade Generator Package, Optional Equipment Option+\$525.00**
 - **Camlok Box Cover**
 - **30% Discount on Optional Equipment Applied**
 - **Upgrading from Camlok box uncovered to covered**
 - **Current List Price to Upgrade = \$750.00**
 - **30% Discount Applied =\$525.00**

Grand Total: \$55,792.50

Quantity 1 - Generac Mobile diesel engine-driven generator set MMG55DF4, consisting of the following features and accessories:

- 55kVA (44kW) Rating
- Prime Duty Power rating
- 4-Position Voltage Changeover Switch
 - 480V Three Phase
 - 208V Three Phase
 - 240V Three Phase
 - 240V Single Phase
- John Deere 3029HFG03 Engine
 - Turbocharged/Aftercooled
 - EPA Final Tier 4 Approved
- Digital Controls
- Single Axle Trailer
- Electric Brakes
- 2-IN Ball

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- Fuel Tank - Single Wall, 106 Gallon
- 720 CCA Wet Cell Battery
- 10 Amp Battery Charger
- Control Panel Light
- Interior Cabinet Light
- CSA
- Fluid Containment
- Block Heater
- Standard Engine Cooling Fan
- Battery Disconnect
- Engine Coolant, 50% Ethylene Glycol/50% Water
- MMG55DF4

Quantity 1 - Freight to job site off-loading by others

Clarifications and Exceptions:

- Local Noise Ordinances unknown. Should lower dBA rating required price is subject to change.
- No Enclosure Wind Load P.E. Calculations. Optional adder.
- Buyers referenced to local, state, or federal government requirements.
- No Anchoring Calculations and/or anchors.
- Fire Pump ATS Provided by Others
- No Offloading.
- No installation.
- No rigging.
- No power systems or selective coordination study.
- Equipment performance beyond manufacturer's design.
- No Storage or insurance.
- No third-party electrical apparatus testing / inspections, and/or special testing (emissions, noise, harmonics, etc...)
- NO NETA Testing Must be performed by third party agency.
- No Special testing equipment (oscilloscope, thermal camera, harmonic analyzer, InfraRed, etc...)
- No general, civil and/or plumbing work or materials.
- No electrical and/or mechanical work including materials.
- No engineering or permitting.
- No third-party testing agency.
- If this project is an AHCA project and AHCA does not approve quote additional cost could occur to make AHCA Compliant.
- No Sound Testing by ACF.
- No fuel or equipment rental.
- No Sub-base in field pressure integrity testing.
- No Maintenance Contract by ACF.
- Arc Flash/ Coordination studies are to be completed by others.

Notes

1. This Quotation is based upon Engineering Specifications ___N/A___ & Drawings ___N/A___. No other sections shall apply.
2. Quotation is valid for 60 days. If not released to production within 60 days, pricing, delivery extension and escalation charges may apply.
3. ACF Standby Systems is not responsible for any delays in delivery due to Act of Nature, explosion, fire, strikes, accidents, war, terrorism, flood, accidents or other causes beyond our company control. Quoted shipping schedules are not guaranteed and subject to change without notice. In no case is ACF Standby Systems responsible for incidental or consequential damages.

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4. ACF Standby Systems does not accept liquidated damages as a part of third party contracts.
5. Equipment will be invoiced (and payment expected according to ACF's Terms and Conditions) at the time of shipment or when ready to ship from point of origin. Delays by the buyer may result in storage fees and/or additional freight charges.
6. Completed equipment to be delivered to a 3rd party manufacturer for further fabrication will be invoiced upon shipment to the 3rd party manufacturer.
7. The warranty is that of the above-named manufacturer(s). Refer to the manufacturer's warranty statement for details. No special warranty is implied. The Manufacturer's warranty begins on the day of start-up or 6 months after shipment, whichever occurs first, not substantial completion. It is the contractor's responsibility to coordinate start-up along with the date of substantial completion.
8. If the generator set is not installed and ready for startup within 6 months of shipment it will require long term storage procedures. Please refer to the Operation and Maintenance Manual for such requirements. All costs related to long term storage is the responsibility of the purchaser. Failure to follow these procedures may void warranty and affect equipment operation. Contact ACF Standby Systems for assistance.
9. Additional sets of O&M manuals are available at an additional cost. The manufacturer's standard format shall apply. Custom O&M manuals will be available at an additional charge.
10. Startup services will not proceed until the buyer's account is current and in good standing.
11. Quotation does not include offloading, rigging, anchoring, installation, exhaust plumbing, exhaust insulation, fuel or permitting.
12. ACF Standby Systems is not responsible for testing of fuel tank(s) provided by any party. Fuel tank testing, as required by FDEP (Florida Department of Environmental Protection) Chapters 62-761 and 62-762, is the responsibility of the installing Contractor and Generator Permit Applicant. ACF Standby Systems LLC is not responsible for damages or costs incurred by any party, when a fuel tank is filled before field testing required under FDEP or testing mandated by a Local Inspector of Authority under FBC, is performed.
13. Pricing is subject to ACF Standby Systems' Payment Terms.

Terms and Conditions

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

Sincerely,

Zach Stewart

ACF Standby Systems, LLC / GENERAC Industrial Distributor
(352) 502-2718
z.stewart@acfpower.com

Acceptance of Quote

0020706061

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

Customer Signature

_____ PO# _____

Bid Award

Contract: FSA20-EQU18.0, Heavy Equipment

Group: GENERATOR: 150kW Mobile Generator Package

Item: 120, Generac/Magnum, MDG175DF4, MDG175DF4

| Zone | Rank | Vendor | Price | Percent: | Build File | Options File |
|----------|-----------|--------------------------|-------------|----------|------------|--------------|
| Western | Primary | ACF Standby Systems, LLC | \$92,016.00 | 0.00% | Build | Options |
| Northern | Primary | ACF Standby Systems, LLC | \$92,016.00 | 0.00% | Build | Options |
| Central | Primary | ACF Standby Systems, LLC | \$92,016.00 | 0.00% | Build | Options |
| Southern | Primary | ACF Standby Systems, LLC | \$92,016.00 | 0.00% | Build | Options |
| | Alternate | Genset Services, Inc. | \$92,367.00 | 30.00% | Build | Options |



| Item #: | 120 | 150kW GeneratorPakcage -Generac | Price |
|------------------|-----|---|----------------|
| | | Base Price: MDG175 | |
| | | MDG25IF4 MDG25IF4 1 Downgrade generator package - 20KW/21kW | \$ (51,500.00) |
| | | MMG35DF4 MMG35DF4 1 Downgrade generator package - 27KW/29kW | \$ (43,100.00) |
| | | MMG45IF4 MMG45IF4 1 Downgrade generator package - 30kW/36kW | \$ (40,300.00) |
| | | MMG55DF4 MMG55DF4 1 Downgrade generator package - 42kW/44kW | \$ (38,600.00) |
| | | MDG75DF4 MDG75DF4 1 Downgrade generator package - 56kW/62KW | \$ (26,500.00) |
| | | MDG100DF4 MDG100DF4 1 Downgrade generator package - 77kW/80KW | \$ (20,300.00) |
| | | MDG150DF4 MDG150DF4 1 Downgrade generator package - 108kW/120KW | \$ 1,842.11 |
| | | MDG250DF4 MDG250DF4 1 Upgrade generator package - 200kW | \$ 29,400.00 |
| | | MGG155-STD MGG155-STD 1 Upgrade generator package - 132kW GASEOUS | \$ 19,400.00 |
| | | MGG210-STD MGG210-STD 1 Upgrade generator package - 177kW GASEOUS | \$ 48,400.00 |
| | | MGG280-STD MGG280-STD 1 Upgrade generator package - 236kW GASEOUS | \$ 80,300.00 |
| | | MGG450-STD MGG450-STD 1 Upgrade generator package - 360kW GASEOUS 5 Channel | \$ 533,000.00 |
| A0000493076 | | Cable Protector Base: Black Lid: Orange Length: 3 ft. Portable Power Distribution Unit Type 3R Input: (5) 16 Series CAM Panel Mount Output: (6) California Style, 50A Single Phase (H,H,N,G) | \$ 500.00 |
| A0000493103 | | Outputs Protected by Branch Circuit Breakers Portable Power Distribution Unit Type 3R Input: (5) 16 Series CAM Panel Mount Output: (12) NEMA 5-20 GFCI Duplex Receptacles | \$ 3,450.00 |
| A0000493105 | | Outputs Protected by Branch Circuit Breakers 200 Amp Feeder Cable Plug: 16D24 Black Connector: 16D33 Black | \$ 3,000.00 |
| A0000493096 | | Cable Type: 2/0 Type W Length: 50 ft. cULus Listed Temporary Power Distribution Unit Type 3R Input: 50A California Style (H,H,N,G) Feed Thru: No Output: (6) NEMA 5-20 GFCI Duplex Receptacles | \$ 700.00 |
| A0000493098 | | Outputs Protected by Branch Circuit Breakers 50 Amp Spider Box Extension Plug: CS6365C Connector: CS6364C | \$ 1,900.00 |
| A0000493092 | | Cable Type: 6/4 SOOW Length: 50 ft. 2/5 Banded Feeder Cable Plug: (5) 16D24 Black, Red, Blue, White, Green Connector: (5) 16D33 Black, Red, Blue, White, Green | \$ 650.00 |
| A0000493097 | | Cable Type: 2 Type SC Length: 50 ft. | \$ 1,325.00 |
| Warranty | | Two (2) Year Warranty | STD |
| 30% Discount | | Optional Equipment- Discount percentage off manufacture's current published retail rated for non specified options and any optional Models bid.This discount ONLY APPLIES to a down grade or an Upgrade to the model listed in this specifications. It does not apply to a completely different make or Model.(The discount is applied to the manufacture's current published retail prices) 30% off listed price for any item not included above. | 30% |
| Unit Paralleling | | Optional Equipment- Discount percentage off manufacture's current published retail rated for non specified options and any optional Models bid.This discount ONLY APPLIES to a down grade or an Upgrade to the model listed in this specifications. It does not apply to a completely different make or Model.(The discount is applied to the manufacture's current published retail prices) 30% off listed price for any item not included above. | 30% |



A-F Standby Systems
Power Generation

GENERAC | **INDUSTRIAL**
POWER

Date: August 29, 2020

Reference: FSA20 – EQU18.0 Item # 120 150kW Mobile Generator Package MDG175DF4

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

Quantity 1 - Generac Mobile diesel engine-driven generator set MDG175DF4, consisting of the following features and accessories:

- Trailered Unit
- 175KVA Rating, 60Hz
- 4-Position Voltage Selector Switch
 - 277/480VAC Three Phase
 - 120/208VAC Three Phase
 - 120/240VAC Three Phase
 - 120/240VAC Single Phase
- Prime Duty Rating
- CSA
- Final Tier 4 Emissions Compliant
- NATM
- PM Voltage Regulator
- Block Heater
- Variable Speed Cooling Fan
- Standard Run Single Wall Tank
- Tandem Axle
- Surge Brakes
- 3" Pintle Ring
- Trailer Adapter, Flat 4 to Round 7 Spade
- 10 Amp Battery Charger
- 4-Position Phase Selector Switch
- MDG175DF4

Quantity 1 - Freight to job site off-loading by others

Quantity 1 - Start up



Quote

Page

Hwy 59 & Hillside Rd. Waukesha, WI 53187 USA
(262) 544-4811 fax: (262) 698-9372 www.generac.com

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QUOTED FOR:

ACF STANDBY SYSTEMS, LLC
9311 SOLAR DR
TAMPA FL 33619-4403

Date
08/25/2020

FSA20 - EQU18.0 Item # 120 150kW Mobile Generator Package MDG175DF4

| Item# / Description |
|--|
| MDG MOBILE DIESEL GENERATORS |
| Duty & Power Unit - Prime |
| Certifications Compliance - CSA |
| Certifications Compliance - FT4 Emissions Compliant |
| Certifications Compliance - NATM |
| Frequency and Speed - 60 Hz |
| Engine and Tier - Deere F4 |
| Gen Type Option - Standard Unit |
| Fan Option - Variable Speed Fan |
| Voltage Regulator Option - PM Voltage Regulator |
| Voltage Selection Options - 4 Position Selector Switch |
| Fuel Tank - Standard Run Single Wall Tank |
| Paralleling Option - No, Paralleling not required |
| Cold Climate Options - Block Heater |
| CCV Heater Required? - None |
| Miscellaneous Components - 10 Amp Battery Charger |
| Unit Type Option - Trailered Unit |
| Trailer Brake Option - Surge Brake |
| Trailer Axle QTY - Tandem Axle |
| Trailer Hitch Option - 3" Pintle Ring |
| Trailer Adapter - Flat 4 to Round 7 Spade |
| Emission Designation - M06.8JSD0192Z1 |
| Model -Sales/Mktg/MM/Type Code - MDG175DF4 |
| Output Voltages 1 Ph. 1.0 PF - 240 |
| Output Voltages 3 Ph. 0.8 PF - 208/480/240 |
| Output Voltages 3 Ph. 1.0 PF - 208/240/480 |
| Unit Output - 175kVA (140kW) |

MDG175DF4 | 6.8 L | 175 kVA
MOBILE DIESEL GENERATOR SET
EPA Emissions Certification: Final Tier 4

GENERAC® | **MOBILE**

Standby Power Rating
160 kW, 200 kVA, 60 Hz

Prime Power Rating
140 kW, 175 kVA, 60 Hz



Image used for illustration purposes only



Codes and Standards

Generac Mobile products are designed to the following standards:



CSA CERTIFIED



NATM



TIER 4 FINAL EMISSIONS



ISO 8528-5

Power When and Where You Need It

Generac Mobile diesel generators are designed and engineered to power a variety of projects, in the most extreme environments. Gensets are configured to meet customer needs, including choice of containment, cold weather packages, trailer options, and more.

Generac Mobile diesel generators are manufactured to deliver reliable power, when and where you need it.

MDG175DF4 | 6.8 L | 175 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4

GENERAC® | MOBILE

STANDARD FEATURES

ENGINE SYSTEM

- John Deere® 6068HFG05
- 6 cylinder
- Variable geometry turbocharged (VGT), after-cooled
- Displacement: 415 in³ (6.8 L)
- EPA Final Tier 4 (DOC and SCR)
- Power @ 1,800 rpm – hp (kW):
 - Prime: 235 (175)
 - Standby: 257 (192)
- ISO mounted engine supports
- Paper element air filter with safety cartridge
- Electronic isochronous governing
- Variable speed fan drive
- Spin-on cartridge oil filter

FUEL SYSTEM

- Fuel tank capacity – gal (L):
 - Total: 358 (1,355)
 - Usable: 343 (1,298)
- Maximum run time @ 100% load: 33 hr
- DEF tank capacity – gal (L):
 - Usable: 28.5 (107.9)
 - Total: 34.5 (130.6)

COOLING SYSTEM

- Coolant capacity: 44 qt (42 L)
- Capable of operating at 120 °F (49 °C) ambient
- Radiator and oil drains plumbed to exterior

SYSTEM OUTPUTS

- Voltage selection switch: 3-position, lockable

GENERATOR

- 60 Hz engine-driven alternator
- Marathon Electric® 431CSL6202
 - Brushless
 - 4-pole
 - Class H insulation

ENCLOSURE

- Aluminum, sound attenuated
 - UV and fade resistant, high temperature cured, white polyester powder paint
 - Insulated and baffled
- Fully lockable – including doors, fuel fill, and DEF fill
- Exterior emergency stop switch
- Central lifting point
- Multi-lingual operating and safety decals
- Document holder with owner's manual – includes AC and DC wiring diagrams

TRAILER

- Two 7,000 lb (3,175 kg) axles
- Surge brakes
- 3 in (76.2 mm) ring hitch
- Safety chains with spring loaded safety hooks
- Transportation tie downs
- 10,000 lb (4,536 kg) tongue jack with footplate
- DOT approved tail, side, brake, and directional lights; recessed rear lights
- Tires: ST215/75R17.5, tubeless, 10 ply

WARRANTY

- 2 year limited warranty or 2,000 hours
 - Unlimited hours covered in first year

CONTROL SYSTEM



Deep Sea® CONTROLLER AND DISPLAY

- Model DSE7310 MKII
- 4-line back-lit LCD text display
- -40 to 158 °F (-40 to 70 °C) operating temperature range
- Multiple language options
- Configurable timers & alarms
- Configurable start/stop timers
- Configurable maintenance alarms
- Heated display

PUSH BUTTONS FOR EASY OPERATION

- Manual or Auto start
- Engine start
- Engine stop/reset
- User-friendly setup and button layout
- Five key menu navigation
- Hours counter
- Multiple parameters are monitored & displayed simultaneously for full visibility
- View controller parameters (configuration, firmware version, connections)

LCD ALARM INDICATION

- Generator diagnostic display
 - System kVA output display
 - Line output and frequency display
- Alarm types: Warning, Shutdown, Electrical Trip, Engine
- Alarm list – warnings/shutdowns; 250 event history log – date/time stamp
 - Fuel level: warning – 15%; shutdown – 5%
 - Overspeed protection: shutdown – 110%
 - Engine diagnostic warnings communicated through J1939 CANbus
 - Battery voltage: over – 15 VDC; under – 11 VDC
 - Generator over voltage: warning – 110%; electrical trip – 115%

- Generator under voltage: warning – 90%; shutdown – 85%
- Generator over frequency: warning – 105%; electrical trip – 110%
- Generator under frequency: warning – 95%; electrical trip – 90%

- Auto-schedule
- Status

ELECTRICAL CONTROLS

- Remote start/stop contacts in receptacle box
- Lockable control box door with diagnostics window
- Lockable lug box with safety switch
 - Trips main breaker when door is opened
 - Disables voltage regulator
- Output ground connection lug inside lug box
- 700 A main breaker with shunt trip
- Convenience receptacles with individual breakers (restricted use in high wye mode)
 - Two 120 V, 20 A, GFCI, duplex outlets (NEMA 5-20R type)
 - Three 125/240 V, 50 A, 3-pole, 4-wire, twistlock outlets (Non-NEMA 6369)
- Voltage adjustment ±10%
- One 12 V, 1,000 CCA, wet cell battery

MDG175DF4 | 6.8 L | 175 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4

GENERAC® | MOBILE

OPTIONS*

ENGINE SYSTEM

- Block heater
- Two fuel filter heaters
- Oil pan heater
- CCV heater
- 60/40 coolant
- Positive air shutdown

FUEL SYSTEM

- 513 gal (1,941.9 L) fuel tank
- Auxiliary fuel and DEF system
- 110% fluid containment

TRAILER

- Full size spare tire
- Tool box/storage bin
- 2-5/16 in (58.7 mm) ball hitch
- Electric brakes
- Stabilizer jacks

CABINET

- Fire extinguisher

CONTROL SYSTEM

- 4-position selector switch
- PMG/DVR
- Paralleling
- Buck transformer
- Battery disconnect switch
- Cam locks
- 10 A battery charger

GENERATOR SYSTEM

- SUPERSTART®
- VFLEX (600 V)

CAN PACKAGE

- Two fuel filter heaters
- Oil pan heater
- Battery heater
- CCV multi-heater system
- 60/40 coolant
- Double-wall fuel tank

CAN6 PACKAGE

- Two fuel filter heaters
- Oil pan heater
- Battery heater
- CCV multi-heater system
- 60/40 coolant
- VFLEX
- Double-wall fuel tank

RATING DEFINITIONS

Standby: Applies to varying emergency load for the duration of a utility power outage.

Prime: Applies to supplying power to a varying load in lieu of utility for an unlimited amount of running time.

*Consult factory for availability



MDG175DF4 | 6.8 L | 175 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

| | |
|------------------------------------|----------------------------|
| Make (Model) | John Deere (6068HFG05) |
| EPA Emissions Compliance | Final Tier 4 |
| After Treatment System | DOC and SCR |
| Cylinders – Qty | 6 |
| Type | In-Line |
| Displacement – in ³ (L) | 415 (6.8) |
| Bore – in (cm) | 4.2(10.6) |
| Stroke – in (cm) | 5.0 (12.7) |
| Compression Ratio | 17.2:1 |
| Intake Air Method | Turbocharged, After-Cooled |

Engine Governing

| | |
|-------------------------------------|------------|
| Governor | Electronic |
| Frequency Regulation (Steady State) | 2% |

Lubrication System

| | |
|-----------------------------|-------------------|
| Oil Pump Type | Gear |
| Oil Filter Type | Spin-On Cartridge |
| Crankcase Capacity – qt (L) | 34.3 (32.5) |

Cooling System

| | |
|----------------------------------|-----------------------|
| Cooling System Type | Pressurized Closed |
| Water Pump Type | Engine Belt Driven |
| Fan Type | Pusher |
| Fan Speed – rpm | Variable Speed Clutch |
| Fan Diameter – in (cm) | 28 (71) |
| Cooling System Capacity – qt (L) | 44 (42) |

Fuel System

| | |
|-------------------------------------|--|
| Fuel Type | Ultra Low Sulfur Diesel |
| Fuel Specifications | EN 590 / ASTM D975 |
| Fuel Filtering – μ | Primary: 10 Final: 2 |
| Fuel Inject Pump – Make (Model) | Denso (HP6) |
| Fuel Pump Type | Engine Gear Driven |
| Injector Type | Electronic |
| Engine Type | Direct Injection High Pressure Common Rail |
| Fuel Supply Line Diameter – in (mm) | 0.375 (9.5) |
| Fuel Return Line Diameter – in (mm) | 0.375 (9.5) |

Engine Electrical System

| | |
|----------------------|--------------|
| System Voltage – VDC | 12 |
| Battery Size – CCA | 1,000 |
| Battery – V (Qty) | 12 (1) |
| Ground Polarity | Negative (-) |

ALTERNATOR SPECIFICATIONS

| | |
|-------------------------------|--------------------------------|
| Make (Model) | Marathon Electric (431CSL6202) |
| Poles | 4 |
| Field Type | Rotating |
| Insulation Class – Rotor | H |
| Insulation Class – Stator | H |
| Total Harmonic Distortion | <5% |
| Telephone Interference Factor | <50 |

| | |
|------------------------------------|---------------------------------|
| Standard Excitation | Brushless |
| Bearings | Double Shielded, Pre-lubricated |
| Coupling | Direct Flexible Disc |
| Prototype Short Circuit Test | Yes |
| Voltage Regulator Type | AVR |
| Quantity of Sensed Phases | 1 |
| Regulation Accuracy (Steady State) | $\pm 0.5\%$ |

SUPERSTART ALTERNATOR SPECIFICATIONS

| | |
|-------------------------------|--------------------------------|
| Make (Model) | Marathon Electric (432CSL6212) |
| Poles | 4 |
| Field Type | Rotating |
| Insulation Class – Rotor | H |
| Insulation Class – Stator | H |
| Total Harmonic Distortion | <5% |
| Telephone Interference Factor | <50 |

| | |
|------------------------------------|---------------------------------|
| Standard Excitation | Brushless |
| Bearings | Double Shielded, Pre-lubricated |
| Coupling | Direct Flexible Disc |
| Prototype Short Circuit Test | Yes |
| Voltage Regulator Type | AVR |
| Quantity of Sensed Phases | 1 |
| Regulation Accuracy (Steady State) | $\pm 0.5\%$ |

APPLICATION AND ENGINEERING DATA (CONTINUED)

VFLEX ALTERNATOR SPECIFICATIONS

| | | | |
|-------------------------------|--------------------------------|------------------------------------|--------------------------------|
| Make (Model) | Marathon Electric (431PSL6612) | Standard Excitation | Brushless |
| Poles | 4 | Bearings | Double Shielded, Prelubricated |
| Field Type | Rotating | Coupling | Direct Flexible Disc |
| Insulation Class – Rotor | H | Prototype Short Circuit Test | Yes |
| Insulation Class – Stator | H | Voltage Regulator Type | AVR |
| Total Harmonic Distortion | < 5% | Quantity of Sensed Phases | 1 |
| Telephone Interference Factor | < 50 | Regulation Accuracy (Steady State) | ±0.5% |

OPERATING DATA

POWER RATINGS

| | Standby: kW/kVA (A) | Prime: kW/kVA (A) |
|---|---------------------|-------------------|
| 1-phase, 120/240 VAC @ 1.0 pf—zig zag* | 120/120 (500) | 120/120 (500) |
| 3-phase, 120/208 VAC @ 0.8 pf—low wye | 155/194 (539) | 140/175 (468) |
| 3-phase, 120/240 VAC @ 0.8 pf—delta** | 160/200 (481) | 140/175 (421) |
| 3-phase, 277/480 VAC @ 0.8 pf—high wye | 160/200 (240) | 140/175 (210) |
| 3-phase, 346/600 VAC @ 0.8 pf—high wye*** | 160/200 (192) | 140/175 (169) |

*Alternator limited.

**Power ratings achieved through use of optional 4-position phase switch.

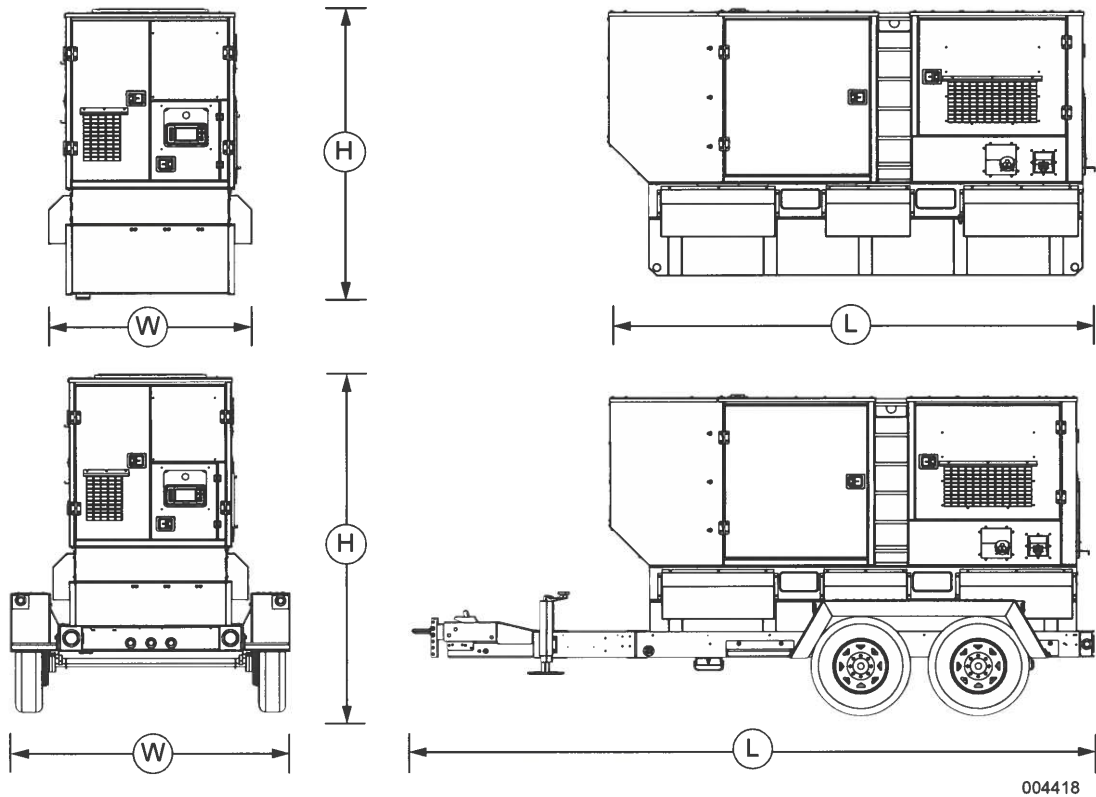
***Power ratings achieved through use of optional VFLEX alternator.

FUEL AND DEF CONSUMPTION RATES

| Load | Fuel: gph (Lph) | | DEF: gph (Lph) | |
|------|-----------------|-------------|----------------|------------|
| | Standby | Prime | Standby | Prime |
| 25% | 4.1 (15.4) | 3.8 (14.5) | NA | NA |
| 50% | 6.7 (25.5) | 6.3 (23.8) | NA | NA |
| 75% | 9.2 (34.8) | 8.4 (31.8) | NA | NA |
| 100% | 12.3 (46.5) | 10.2 (38.6) | NA | 0.36 (1.4) |

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Mobile Authorized Service Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, ISO 8665, ISO 3046 SAE J1228, SAE J1995, and DIN6271 standards.

DIMENSIONS AND WEIGHTS*



| | Run Time: hr | Usable Fuel Capacity: gal (L) | Dimensions – L×W×H: in (m) | Weight: lb (kg) |
|---------|--------------|-------------------------------|------------------------------|---|
| Skid | 33 | 343 (1,298) | 145 (3.7)×60 (1.5)×85 (2.1) | Dry: 6,480 (2,939) Operating: 9,335 (4,234) |
| Trailer | 33 | 343 (1,298) | 208 (5.3)×86 (2.2)×104 (2.6) | Dry: 8,444 (3,830) Operating: 11,300 (5,125) |

SOUND RATING

- 75 dB(A) @ 23 ft (7 m) @ prime power

* All measurements are approximate and for estimation purposes only.

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| YOUR FACTORY RECOGNIZED GENERAC MOBILE DEALER |
| |

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Mobile Authorized Service Dealer for detailed installation drawings.