

**Standby Power Rating** 160 kW, 200 kVA, 60 Hz

**Prime Power Rating** 140 kW, 175 kVA, 60 Hz





Picture shown may not reflect actual configuration.

# **Codes and Standards**

# Generac Mobile products are designed to the following standards:



**CSA** 



NATM



TIER 4 FINAL EMISSIONS



UL142, ULC-S601 CERTIFIED

# **Power When and Where You Need It**

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

#### STANDARD FEATURES

#### **ENGINE SYSTEM**

- John Deere® 6068HFG05
- 6 Cylinder
- Variable-geometry Turbocharged (VGT) and Aftercooled
- 415 in3 (6.8 L) Displacement
- Power @ 1,800 RPM -hp (kW):
  - · Prime: 235 (175)
  - · Standby: 257 (192)
- Approved for use with Hydrotreated Vegetable Oil (HVO) Fuels Compliant with ASTM D975 or EN 15940
- · Paper Element Air Filter
- · Electronic Isochronous Governing
- · Variable Speed Fan
- · Spin On Cartridge Oil Filter
- · Oil Drain Extension
- · One CCV System Filter
- · One Fuel / Water Separator-Filter
- · One Fuel Filter
- . One 12 V, 950 CCA Wet Cell Battery

#### COOLING SYSTEM

- Capable of Operating at 120 °F (49 °C) Ambient (at Prime)
- 50/50 Coolant (50% Ethylene Glycol)
- · Coolant Drain Extension

# **FUEL SYSTEM**

- · Single Wall Fuel Tank
- Fuel Tank Capacity US gal (L):
  - Total: 358 (1,355)
  - Usable: 343 (1,298)
- Runtime @ 75% load: 37 hr
- DEF Tank Capacity US gal (L):
  - · Total: 34.5 (130.6)
  - · Usable: 28.5 (107.9)
- · Padlockable Fuel and DEF Tank Caps

#### **CONTROL SYSTEM**

- Deep Sea Electronics® 7310 MKII Controller
- · 3-Position Voltage Selection Switch
- 700 A Main Circuit Breaker (MCB), Manual, with Shunt Trip
- Individual Convenience Receptacle Circuit Breakers
- · Emergency Stop Switch
- Hour Meter
- · Lockable Battery Disconnect
- · Remote 2-wire Start/Stop Contacts

#### **ALTERNATOR SYSTEM**

- 60 Hz Engine-Driven Alternator
- · Standard Alternator
  - · Brushless
  - 4 Pole
  - 2/3 Pitch
  - · Class H Insulation
  - · Corrosion Protection
- Deep Sea® DSEA109 Automatic Voltage Regulator
- · Shunt Excitation System

#### **POWER DISTRIBUTION**

- Connection Lugs
- · Convenience Receptacles
  - Two 120 V, 20 A, GFCI, Duplex Receptacles (NEMA 5-20R)
  - Three 120/240 V, 50 A, 3 Pole, 4 Wire Twistlock Receptacles (CS6369)
- Buck Transformer

#### **ENCLOSURE**

- Aluminum, Sound Attenuated Enclosure, Insulated and Baffled
- UV and Fade Resistant, High Temperature Cured, White Polyester Powder Paint
- · Central Lifting Point
- Interior Lights
- Fully Lockable Enclosure
- . Multi Lingual Operating and Safety Decals
- Document Holder with Owner's Manual Includes AC and DC Wiring Diagrams
- · Control Panel Lights

#### **TRAILER**

- · Hydraulic Surge Brakes
- 3 in (76.2 mm) Pintle Ring
- Two 7,000 lb (3,175 kg) Axles
- Tires: 215/75, 17.5 in. Rim
- Heavy Duty Trailer Jack
- · Safety Chains with Spring Loaded Safety Hooks
- · Transportation Tie Downs
- Plug Adapter, Round 7 Blade Adapter (SAE J2863)
- DOT Approved Tail, Side, Brake, and Directional Lights

#### WARRANTY

- · 2 Year Limited or 2,000 Hours
  - · Unlimited Hours Covered in First Year

# MDG175DF4 | 6.8 L | 175 kVA

#### MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier 4 Final

#### STANDARD FEATURES

#### **CONTROL SYSTEM**



# Deep Sea Electronics® CONTROLLER AND DISPLAY

- Controller: Deep Sea® 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 and 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
- Multiple Parameters are Monitored and Displayed Simultaneously for Full Visibility
- View Controller Parameters (Configuration, Firmware Version, Connections

#### **ELECTRICAL CONTROLS**

- 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
- Voltage Adjustment ±10%

#### **LCD ALARM INDICATION**

GENERAC\* |

MOBILE

- · 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 Stamped
  - 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

# **CONFIGURABLE OPTIONS\***

## **ENGINE SYSTEM**

- o Positive Air Shutdown (PAS), Electronic
- o Engine Oil Level Maintainer
- Oil Evacuation System Requires Customer Sourced, Specialized Equipment to Use for Oil Change

## **COLD WEATHER**

- Engine Block Heater
- o Two Heated Fuel Filters
- o Oil Heater
- o Crankcase Ventilation (CCV) System Heater
- o 10 A Battery Charger
- o Two 1,100 CCA Batteries (12 V, Group 4D)
- o 60/40 Coolant (60% Ethylene Glycol)

#### **CONTROL SYSTEM**

- o 4-Position Voltage Selection Switch
- o Paralleling Capability
  - Deep Sea Electronics 8610 MKII Controller (Paralleling)
  - 500 A Main Circuit Breaker (MCB), Motorized
  - Mobile Switching Center (MSC) Cable Connections
- o Telemetry
- $\circ \quad \text{Battery Disconnect, Lockable} \\$

# **FUEL SYSTEM**

- o Double Wall Fuel Tank
  - 110% Containment Fuel and Engine Fluid (Oil, Coolant, and DEF)
  - · UN31A Certification
  - · UL142 / ULC-S601 Certification
- Fuel Tank Capacity US gal (L)
  - Total: 358 (1,355)
  - · Usable: 343 (1,298)
- o Runtime @ 75% load: 37 hr
- o Double Wall Fuel Tank, Extended Runtime
  - 110% Containment Fuel and Engine Fluid (Oil, Coolant, and DEF)
  - · UN31A Certification
  - UL142 / ULC-S601 Certification
- Fuel Tank Capacity US gal (L)
  - · Total: 513 (1,942)
  - Usable: 462 (1,749)
- o Runtime @ 75% Load: 50 hrs
- Fuel Leak Detection Sensor
- Auxiliary Fuel Tank Connection
  - · 3-Way Fuel Valve

#### **ALTERNATOR SYSTEM**

- o SUPERSTART® Alternator
- o VFLEX (600 V) Alternator
- Permanent Magnet Generator (PMG) Excitation System

#### POWER DISTRIBUTION

- Camlocks Two Sets, Female (US or Canada Color Code)
- Buck Transformer

#### **ENCLOSURE**

Fire Extinguisher

## **TRAILER**

- Skidded (Non-trailer)
- o Electric Brakes
- o 2-5/16 in (58.7 mm) Ball Hitch, Adjustable
- o Rear Jack Group
- $\circ$  Toolbox Aluminum, 49×15×18.5 in (125×38×47 cm)
- Spare Tire
- Two 8,000 lb (3,628 kg) Axles (When Double Wall Fuel Tank, Extended Runtime is Selected)

# MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier 4 Final



# **RATING DEFINITIONS**

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

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





# **APPLICATION AND ENGINEERING DATA**

# **ENGINE SPECIFICATIONS**

### General

Make (Model)	John Deere (6068HFG05)
EPA Emissions Compliance	Tier 4 Final
After Treatment System	DOC and SCR
Cylinder #	6
Туре	In-line
Displacement: in <sup>3</sup> (L)	415 (6.8)
Bore: in (mm)	4.2(10.6)
Stroke: in (mm)	5.0 (12.7)
Compression Ratio	17.2:1
Intake Air Method	Turbocharged & Aftercooled

# **Engine Governing**

Governor	Electronic
Frequency Regulation (Steady State)	2%

# **Lubrication System**

Oil Pump	Gear Driven
Oil Filter Type	Spin-On Cartridge
Engine Oil 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 (mm)	28 (71)
Cooling System Capacity – US gal	44 (42)
(L)	

# Fuel System

Fuel Type	Ultra Low Sulfur Diesel
Fuel Specifications	EN 590 / ASTM D975
Fuel Filtering	Primary: 10
	Final: 4
Fuel Inject Pump – Make (Model)	Denso (HP6)
Fuel Pump Type	Engine Gear Driven Lift Pump
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 – CCA	950
Battery – V (Qty)	12 (1)
Ground Polarity	Negative (-)

<sup>\*</sup>Consult factory for availability

EPA Emissions Certification: Tier 4 Final



# **APPLICATION AND ENGINEERING DATA (CONT.)**

#### STANDARD ALTERNATOR SPECIFICATIONS

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

Standard Excitation	Shunt
Bearings	Double Shielded, Prelubricated
Coupling	Direct Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	AVR
Quantity of Sensed Phases	1
Regulation Accuracy (Steady State)	0.5%

# **SUPERSTART ALTERNATOR SPECIFICATIONS**

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

Standard Excitation	Shunt
Bearings	Double Shielded, Prelubricated
Coupling	Direct Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	AVR
Quantity of Sensed Phases	1
Regulation Accuracy (Steady State)	0.5%

#### **VFLEX ALTERNATOR SPECIFICATIONS**

Make (Model)	Marathon Electric (431PSL6612)
Poles	4
Field Type	Rotating
Insulation Class — Rotor	Class H
Insulation Class — Rotor	Class H
Total Harmonic Distortion (THD)	<5%
Telephone Interference Factor (TIF)	<50
OPERATING DATA	

Standard Excitation	Shunt
Bearings	Double Shielded, Prelubricated
Coupling	Direct Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	AVR
Quantity of Sensed Phases	1
Regulation Accuracy (Steady State)	+0.5%

# POWER RATINGS

	Standard Alternator		SUPERSTART Alternator		VFLEX Alternator	
	Standby:	Prime:	Standby:	Prime:	Standby:	Prime:
	kW/kVA (A)	kW/kVA (A)	kW/kVA (A)	kW/kVA (A)	kW/kVA (A)	kW/kVA (A)
3-phase, 208/120 VAC @ 0.8 pf	288/360 (1000)	264/330 (917)	288/360 (1000)	264/330 (917)	288/360 (1000)	264/330 (917)
3-phase, 240/139 VAC @ 0.8 pf	290/363 (873)	264/330 (795)	290/363 (873)	264/330 (795)	290/363 (873)	264/330 (795)
3-phase, 480/277 VAC @ 0.8 pf	290/363 (437)	264/330 (397)	290/363 (437)	264/330 (397)	290/363 (437)	264/330 (397)
3-phase, 600/346 VAC @ 0.8 pf	N/A	N/A	N/A	N/A	290/363 (349)	264/330 (318)

#### **FUEL CONSUMPTION RATES**

Prime Load 25%	Fuel: US gph (L/hr) 5.8 (22.0)	DEF: US gph (L/hr) 0.5 (1.8)		
50%	10.1 (38.2)	0.8 (3.1)		
75%	14.5 (54.9)	1.2 (4.4)		
100%	19.7 (74.6)	1.6 (6.1)		
110% (Standby)	22.0 (83.1)	1.8 (6.8)		

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 BS5514, SAE J1228, SAE J1995, and DIN6271 standards.

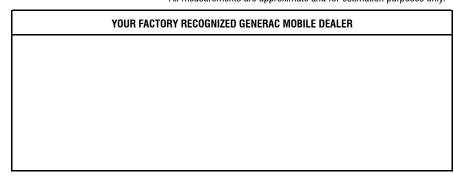
**DIMENSIONS AND WEIGHTS\*** 

# (L) Usable Fuel Capacity: US Runtime: Dimensions – L $\times$ W $\times$ H: in (m) Weight: lb (kg) hr\* gal (L) Dry: 6,480 (2,939) Operating: 9,335 (4,234) Dry: 8,444 (3,830) Operating: 11,300 (5,125) 343 (1,298) 145 (3.7)×60 (1.5)×85 (2.1) Skid 37 208 (5.3)×86 (2.2)×104 (2.6) Trailer 37 343 (1,298)

# **SOUND RATING**

• 75 dB(A) @ 23 ft (7 m) & 75% PRP

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



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.

<sup>\*</sup>Runtime based on 75% of prime rated power