MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier 4 Final



Standby Power Rating 160 kW, 200 kVA, 60 Hz

Prime Power Rating 140 kW, 175 kVA, 60 Hz





mayo asoa ioi masaaaon parposos omy

Codes and Standards

Generac Mobile products are designed to the following standards:



CSA CERTIFIED



NATM



TIER 4 FINAL EMISSIONS





UN31A, UL142, ULC-S601 CERTIFIED

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.

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier 4 Final



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
- One 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 gal (L):
 - Total: 358 (1,355)
 - Usable: 343 (1,298)
- Runtime @ 75% load: 37 hr
- DEF tank capacity gal (L):
 - Usable: 28.5 (107.9)
 - Total: 34.5 (130.6)
- 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
- · 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
- Marathon Electric® PM500 AVR
- · Shunt Excitation System

POWER DISTRIBUTION

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

ENCLOSURE

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

TRAILER

- · Hydraulic Surge Brakes
- 3 in. (76.2 mm) Pintle Ring, Adjustable
- Two 7,000 lb (3,175 kg) Axles
- 17.5 in. Tires, Tubeless, 10 ply
- 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 Warranty or 2,000 Hours
 - · Unlimited Hours Covered in First Year

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier 4 Final

GENERAC MOBILE

STANDARD FEATURES

CONTROL SYSTEM



010643

Deep Sea Electronics® 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 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
- Hours Counter
- Multiple Parameters are Monitored and 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 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

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%

CONFIGURABLE OPTIONS*

ENGINE SYSTEM

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

COLD WEATHER

- Engine Block Heater
- O Two Heated Fuel Filters
- Oil Heater
- O Crank Case Ventilation (CCV) System Heater
- O Battery Heater
- O 10 A Battery Charger
- O 60/40 Coolant (60% Ethylene Glycol)

FUEL SYSTEM

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

CONTROL SYSTEM

- O 4-Position Voltage Selection Switch
- O Paralleling Capability
 - Deep Sea Electronics® 8610 MKII Controller
 - 500 A Main Circuit Breaker (MCB), Motorized
 - Mobile Switching Center (MSC) Cable Connections
- Telemetry
- O Lojack Equipment Recovery System
- O Battery Disconnect, Lockable

ALTERNATOR SYSTEM

- SUPERSTART® Alternator
- O VFLEX (600 V) Alternator
- O Marathon Electric® DVR2400 DVR
- Permanent Magnet Generator (PMG) Excitation System

POWER DISTRIBUTION

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

ENCLOSURE

O Fire extinguisher

TRAILER

- O Skid Mount (Non-trailer)
- O Electric Brakes
- O 2-5/16 in (58.7 mm) Ball Hitch, Adjustable
- O Rear Jack Group
- O Toolbox-Aluminum, 49x15x18.5 in (125x38x47 cm)
- Spare Tire

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier 4 Final



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.





APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make (Model)	John Deere (6068HFG05)		
EPA Emissions Compliance	Tier 4 Final		
After Treatment System	DOC and SCR		
Cylinders – Qty	6		
Туре	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 and Aftercooled		
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	950	
Battery – V (Qty)	12 (1)	
Ground Polarity	Negative (-)	

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier 4 Final



APPLICATION AND ENGINEERING DATA (CONT.)

CTANDADD	AT TEDMATAD	SPECIFICATIONS
SIANHARH	AI IFRNAIUR	SPELIFILATIONS

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

OPERATING DATA

POWER RATINGS

	Standard Alternator		SUPERSTART Alternator		VFLEX Alternator	
	Standby: kW/kVA (A)	Prime: kW/kVA (A)	Standby: kW/kVA (A)	Prime: kW/kVA (A)	Standby: kW/kVA (A)	Prime: kW/kVA (A)
1-phase, 120/240 VAC @ 1.0 pf—zig zag*	120/120 (500)	120/120 (500)	120/120 (500)	120/120 (500)	90/90 (375)	90/90 (375)
3-phase, 208/120 VAC @ 0.8 pf—low wye	155/194 (539)	140/175 (468)	155/194 (539)	140/175 (468)	155/194 (539)	140/175 (468)
3-phase, 240/120 VAC @ 0.8 pf—delta**	160/200 (481)	140/175 (421)	160/200 (481)	140/175 (421)	160/200 (481)	140/175 (421)
3-phase, 480/277 VAC @ 0.8 pf—high wye	160/200 (240)	140/175 (210)	160/200 (240)	140/175 (210)	160/200 (240)	140/175 (210)
3-phase, 600/346 VAC @ 0.8 pf—high wye	N/A	N/A	N/A	N/A	160/200 (192)	140/195 (135)

^{*}Alternator limited.

FUEL AND DEF CONSUMPTION RATES

	Prime Load	Fuel: gph (L/hr)	DEF: gph (L/hr)
	25%	4.1 (15.4)	0.09 (0.34)
_	50%	6.7 (25.5)	0.18 (0.68)
	75%	9.2 (34.8)	0.28 (1.06)
	100%	10.04 (38.0)	0.37 (1.4)
	110% (Standby)	12.1 (45.8)	0.39 (1.47)

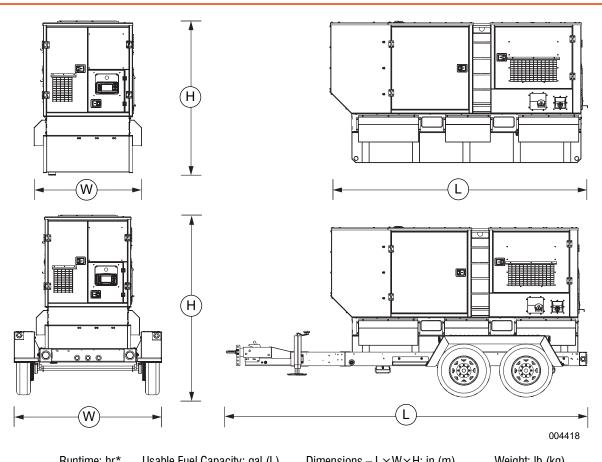
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

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.

^{**}Power ratings achieved through use of optional 4-position phase voltage selection switch.



DIMENSIONS AND WEIGHTS*

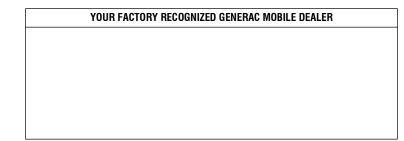


	nullulle. III	Osable i dei Gapacity, gai (L)	Difficitions - LXWXII. III (III)	weigi	it. ib (kg)
Skid	37	343 (1,298)	145 (3.7)×60 (1.5)×85 (2.1)	Dry: Operating:	6,480 (2,939) 9,335 (4,234)
Trailer	37	343 (1,298)	208 (5.3)×86 (2.2)×104 (2.6)	Dry: Operating:	8,444 (3,830) 11,300 (5,125)

 $[\]ensuremath{^{*}}$ Runtime based on 75% of prime rated power.

SOUND RATING

- 75 dB(A) @ 23 ft (7 m) @ 100% 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.