

Standby Power Rating 220 kW, 275 kVA, 60 Hz

Prime Power Rating 200 kW, 250 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.

STANDARD FEATURES

ENGINE SYSTEM

- John Deere® 6068HFG06
- 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: 295 (220)
 - · Standby: 323 (241)
- 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: 24 hr
- DEF tank capacity gal (L):
 - Total: 28.5 (107.9)
 - Total: 34.5 (130.6)

COOLING SYSTEM

- Coolant capacity: 44 qt (42 L)
- Capable of operating at 108 °F (42 °C) ambient
- · Radiator and oil drains plumbed to exterior

SYSTEM OUTPUTS

• 208/480 link board connection

GENERATOR

- 60 Hz engine-driven alternator
- Marathon Electric[®] 431CSL6206
 - Brushless
 - 4-pole
 - · Insulation: Class H

ENCLOSURE

- Aluminum, sound attenuating
 - 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 or 2,000 hours
 - · Unlimited hours covered in first year

CONTROL SYSTEM

Model DSE7310 MKII

range

Heated display

4-line back-lit LCD text display

· Multiple language options

· Configurable timers & alarms

Configurable start/stop timers

Configurable maintenance alarms



Deep Sea® CONTROLLER AND DISPLAY

• -40 to 158 °F (-40 to 70 °C) operating temperature

010643

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%
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- 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
- 900 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, twistock outlets (Non-NEMA 6369)
- Voltage adjustment ±10%
- One 12 V, 1,000 CCA, wet cell battery

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4



OPTIONS*

ENGINE SYSTEM

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

FUEL SYSTEM

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

TRAILER

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

CABINET

Fire extinguisher

CONTROL SYSTEM

- O 3-position selector switch
- O 4-position selector switch
- O PMG/DVR
- Paralleling
- O Buck transformer
- O Battery disconnect switch
- Cam locks
- 10 A battery charger

GENERATOR SYSTEM

- SUPERSTART®
- O VFLEX (600 V)

CAN PACKAGE

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

CAN6 PACKAGE

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





MDG250DF4 | 6.8 L | 250 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

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Make (Model)	John Deere (6068HFG06)	
EPA Emissions Compliance	Final Tier 4	
After-Treatment System	DOC and SCR	
Cylinders – Qty	6	
Туре	In-Line	
Displacement – in ³ (L)	415 (6.8)	
Bore – in (mm)	4.2 (106)	
Stroke – in (mm)	5.0 (127.0)	
Compression Ratio	16.7:1	
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 (mm)	28 (710)
Coolant System Capacity – qt (L)	44 (42)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel
Fuel Specifications	EN 590 / ASTM D975
Fuel Filtering $-\mu$	Primary: 10 Final: 2
Fuel Injection 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 – CCA	1,000	
Battery – V (Qty)	12 (1)	
Ground Polarity	Negative (-)	

ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric (431CSL6206)
Poles – Qty	4
Field Type	Rotating
Insulation Class – Rotor	Н
Insulation Class – Stator	Н
Total Harmonic Distortion	<5%
Telephone Interference Factor	<50

Standard Excitation	Brushless
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 (433CSL6216)
Poles – Qty	4
Field Type	Rotating
Insulation Class – Rotor	Н
Insulation Class – Stator	Н
Total Harmonic Distortion	<5%
Telephone Interference Factor	< 50

Standard Excitation	Brushless	
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%	

MDG250DF4 | 6.8 L | 250kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4



APPLICATION AND ENGINEERING DATA (CONTINUED)

VFLEX ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric (432PSL6613)
Poles – Qty	4
Field Type	Rotating
Insulation Class – Rotor	Н
Insulation Class – Stator	Н
Total Harmonic Distortion	<5%
Telephone Interference Factor	<50

Standard Excitation	Brushless		
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

	Standby: kW/kVA (A)	Prime: kW/kVA (A)
1-phase, 120/240 VAC @ 1.0 pf—zig zag*	165/165 (687)	165/165 (687)
3-phase, 120/208 VAC @ 0.8 pf—low wye	220/275 (771)	200/250 (694)
3-phase, 120/240 VAC @ 0.8 pf—delta**	220/275 (662)	200/250 (601)
3-phase, 277/480 VAC @ 0.8 pf—high wye	220/275 (334)	200/250 (301)
3-phase, 346/600 VAC @ 0.8 pf—high wye***	220/275 (265)	200/250 (241)

^{*}Alternator limited.

FUEL AND DEF CONSUMPTION RATES

Load	Fuel: gph (Lph)		DEF: gph (Lph)	
	Standby	Prime	Standby	Prime
25%	4.7 (17.6)	4.4 (16.7)	NA	NA
50%	7.8 (29.5)	7.2 (27.4)	NA	NA
75%	11.4 (43.1)	10.4 (39.3)	NA	NA
100%	15.4 (58.4)	13.9 (52.8)	NA	0.45 (1.7)

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.

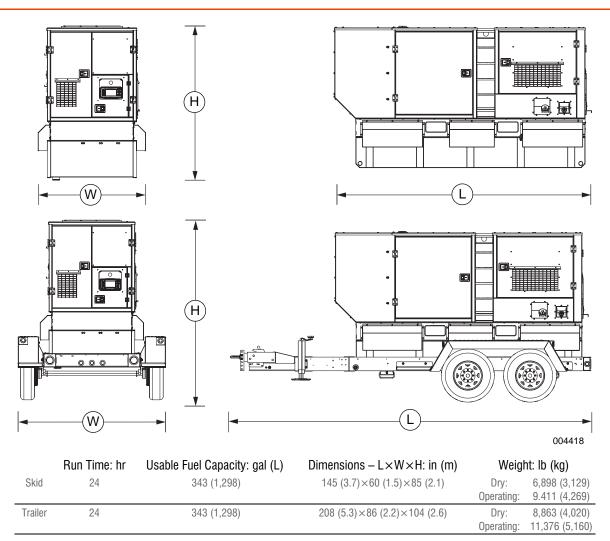
^{**}Power ratings achieved through use of optional 4-position phase switch.

^{***}Power ratings achieved through use of optional VFLEX alternator.

EPA Emissions Certification: Final Tier 4



DIMENSIONS AND WEIGHTS*



SOUND RATING

• 78 dB(A) @ 23 ft (7 m) @ prime power

* All measurements are approximate and for estimation purposes only.

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.