

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4

Standby Power Rating 85 kW, 106.25 kVA, 60 Hz

Prime Power Rating 80 kW, 100 kVA, 60 Hz



Image used for illustration purposes only

MOBILE

Codes and Standards

Generac Mobile products are designed to the following standards:



CSA CERTIFIED

NATM



TIER 4 FINAL

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.

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STANDARD FEATURES

ENGINE SYSTEM

- John Deere[®] 4045HFG04
- 4 cylinder
- Turbocharged
- 275 in³ (4.5 L) displacement
- EPA Final Tier 4
- Power @ 1,800 rpm hp (kW):
 - Prime: 122 (90)
 - Standby: 133 (99)
- · 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: 165 (625)
 - Usable: 146 (552)
- Maximum run time @ 100% load: 24 hr

DEEP SEA ELECTRONICS

Deep Sea[®] CONTROLLER AND DISPLAY

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

010643

- DEF tank capacity gal (L):
 - Total: 12 (45.4)

CONTROL SYSTEM

0

range

Heated display

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Model DSE7310 MKII

• 4-line back-lit LCD text display

Multiple language options

Configurable timers & alarms

Configurable start/stop timers

Configurable maintenance alarms

• Usable: 9.1 (34.4)

COOLING SYSTEM

- Capable of operating at 104 °F ambient
- · Radiator and oil drains plumbed to exterior

SYSTEM OUTPUTS

· Voltage selection switch: 3-position, lockable

GENERATOR

- 60 Hz engine/generator
- Marathon Electric[®] 362CSL1606
 - Brushless
 - 4-pole
 - · Class H insulation

ENCLOSURE

- Aluminum, sound attenuated enclosure
 - 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

PUSH BUTTONS FOR EASY OPERATION

- Manual or Auto start
- Engine start
- Engine stop/reset
- •
- 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, ٠ 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%

TRAILER

- DOT approved tail, side, brake, and directional lights; recessed rear lights
- Surge brakes
- Transportation tie downs

GENERAC[®] MOBILE

- Safety chains with spring loaded safety hooks
- 3 in (76.2 mm) ring hitch
- Single axle 6,000 lb (2,722 kg)
- 2,000 lb (906 kg) tongue jack w/footplate
- Tires: 15 in (38.1 cm), 10-ply, tubeless, load range E

WARRANTY

• 2 year limited or 2,000 hours · Unlimited hours covered in first year

- 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
- 400 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)

SPEC SHEET

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- Three 125/250 V, 50 A, 3-pole, 4-wire, twistlock outlets (Non-NEMA 6369)
- Voltage adjustment ±10%
- One 12 V, 720 CCA, wet cell battery

Five key menu navigation • Hours counter •

User-friendly setup and button layout

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OPTIONS*

ENGINE SYSTEM

- Two fuel filter heaters
- $\circ~$ Oil pan heater
- Battery heater
- CCV multi-heater system
- 60/40 coolant
- Positive air shutdown

FUEL SYSTEM

- 110% fluid containment
- Leak detection
- Auxiliary fuel and DEF system

TRAILER

- Electric brakes
- \circ Tandem axle
- $\,\circ\,$ Stabilizer jacks
- Tool box/storage bin
- 2 in (50.8 mm) ball hitch

RATING DEFINITIONS

- 2-5/16 in (58.7 mm) ball hitch
- Full-size spare tire

CABINET

- Control panel light
- $\,\circ\,$ Interior lights

CONTROL SYSTEM

- 4-position phase switch
- PMG
- Paralleling
- Buck transformer
- Battery disconnect switch
- $\,\circ\,$ Cam locks
- 10 A battery charger
- o dvr

GENERATOR SYSTEM

- SUPERSTART[®]
- VFLEX (600 V)

CAN PACKAGE

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

CAN6 PACKAGE

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

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



SPEC SHEET





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APPLICATION AND ENGINEERING DATA

MOBILE DIESEL GENERATOR SET

ENGINE SPECIFICATIONS

General

Make (Model)	John Deere (4045HFG04)
EPA Emissions Compliance	Final Tier 4
After-Treatment System	DOC and SCR
Cylinders – Qty	4
Туре	In-Line
Displacement – in ³ (L)	275 (4.5)
Bore – in (cm)	4.2 (10.6)
Stroke – in (cm)	5.0 (12.7)
Compression Ratio	17:1
Intake Air Method	Turbo/Air-To-Air, After-Cooled
Engine Governing	
Governor	Electronic
Frequency Regulation (Steady State)	2%
Lubrication System	
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-	Gear
Oil Pump Type Oil Filter Type	Gear Spin-On Cartridge

Cooling System

Cooling System Type	Radiator and CAC
Water Pump Type	Engine Belt Driven
Fan Type	Pusher
Fan Speed – rpm	Variable Speed Clutch
Fan Diameter – in (cm)	23.2 (59.0)
Cooling System Capacity – qt (L)	22.0 (20.8)
Fuel System	
Fuel Type	Ultra Low Sulfur Diesel
Fuel Specifications	EN 590 / ASTM D975
Fuel Filtering – μ	Primary: 10 Final: 2
Fuel Injection Pump – Make (Model)	Denso (HP3)
Fuel Pump Type	Engine Gear Driven
Injection Type	Electronic
Engine Type	Direct Injection High Pressure Common Rail
Fuel Supply Line Diameter – in (mm)	0.375 (9.5)

Engine Electrical System

Fuel Return Line Diameter – in (mm)

System Voltage – VDC	12
Battery Charger Alternator – VDC (A)	12 (90)
Battery – CCA	720
Battery – V (Qty)	12 (1)
Ground Polarity	Negative (-)

0.375 (9.5)

ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric (362CSL1606)
Poles – Qty	4
Field Type	Rotating
Insulation Class – Rotor	Н
Insulation Class – Stator	Н
Total Harmonic Distortion	<3.5%
Telephone Interference Factor	<50

SUPERSTART ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric (362PSL1650)		
Poles – Qty	4		
Field Type	Rotating		
Insulation Class – Rotor	Н		
Insulation Class – Stator	Н		
Total Harmonic Distortion	<3.5%		
Telephone Interference Factor	<50		

Standard Excitation	Brushless	
Bearings	Single Bearing	
Coupling	Direct Flexible Disc	
Prototype Short Circuit Test	Yes	
Voltage Regulator Type	AVR	
Number of Sensed Phases	1	
Regulation Accuracy (Steady State)	±0.5%	

Standard Excitation	Brushless	
Bearings	Single Bearing	
Coupling	Direct Flexible Disc	
Prototype Short Circuit Test	Yes	
Voltage Regulator Type	AVR	
Quantity of Sensed Phases	1	
Regulation Accuracy (Steady State)	±0.5%	

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APPLICATION AND ENGINEERING DATA (CONTINUED)

VFLEX ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric (362PSL36115)		
Poles – Qty	4		
Field Type	Rotating		
Insulation Class – Rotor	Н		
Insulation Class – Stator	Н		
Total Harmonic Distortion	<3.5%		
Telephone Interference Factor	<50		

Standard Excitation	Brushless	
Bearings	Single Bearing	
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*	78/78 (325)	78/78 (325)
3-phase, 120/208 VAC @ 0.8 pf	85/106.25 (295)	80/100 (278)
3-phase, 120/240 VAC @ 0.8 pf**	85/106.25 (256)	80/100 (241)
3-phase, 277/480 VAC @ 0.8 pf	85/106.25 (128)	80/100 (120)
3-phase, 346/600 VAC @ 0.8 pf***	85/106.25 (102)	80/100 (96)

*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%	2.0 (7.57)	1.90 (6.37)	NA	NA
	50%	3.46 (13.10)	3.17 (12.02)	NA	NA
-	75%	4.95 (18.75)	4.51 (17.07)	NA	NA
	100%	6.64 (25.12)	6.01 (22.72)	NA	0.26 (1.15)

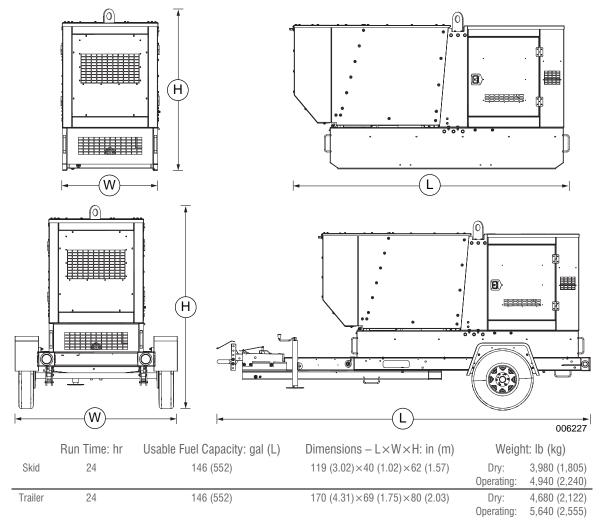
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Mobile Authorized Service Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, ISO8665, SAE J1228, SAE J1995, and DIN6271 standards.



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DIMENSIONS AND WEIGHTS*



SOUND RATING

• 74 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.

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