MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier 4 Final

MOBILE

Standby Power Rating 85 kW, 106 kVA, 60 Hz

Prime Power Rating 80 kW, 100 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 You 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.

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STANDARD FEATURES

ENGINE SYSTEM

- John Deere[®] 4045HFG04
- 4 cylinder
- Turbocharged & Aftercooled
- 275 in3 (4.5 L) Displacement
- EPA Tier 4 Final
- Power @ 1,800 RPM -hp (kW):
 - Prime: 122 (90)
 - Standby: 133 (99)
- Paper Element Air Filter
- Electronic Isochronous Governing
- Variable Speed Fan
- Spin On Cartridge Oil Filter
- Oil Drain Extension
- One CCV System Filter
- One Fuel Filters
- One Fuel-Water Separator Filter
- One 12 V, 720 CCA, Wet Cell Battery

COOLING SYSTEM

- Capable of Operating at 104 °F (40 °C) Ambient
- 50/50 Coolant (50% Ethylene Glycol)
- Coolant Drain Extension

FUEL SYSTEM

- Single Wall Fuel Tank
- Fuel tank capacity US gal (L):
 - Total: 165 (625)
 - Usable: 146 (552)

- Maximum Runtime @ 75% load: 32 hr
- DEF Tank Capacity US gal (L):
- Total: 12 (45.4)
- Usable: 9.1 (34.4)
- Padlockable Fuel and DEF Tank Caps

CONTROL SYSTEM

- Deep Sea Electronics® 7310 MKII Controller
- 3-Position Voltage Selection Switch
- 400 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)

GENERAC[®] MOBILE

 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
- Fully Lockable Enclosure
- Multi Lingual 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
- Tires: ST225/75, 15 in. Rim
- Heavy Duty Trailer Jack
- Safety Chains with Spring Loaded Safety Hooks
- Transportation Tie Downs
- Plug Adapter, Round 7 Spade (SAE J2863)
- DOT Approved Tail, Side, Brake, and Directional Lights

WARRANTY

Engine

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VDC

Auto Schedule

Status

• 2 year limited or 2,000 hours

- System kVA Output Display

History Log - Date/Time Stamped

Through J1939 CANbus

Electrical Trip - 115%

Electrical Trip - 110%

Electrical Trip - 90%

Shutdown - 85%

- Line Output and Frequency Display

· Alarm Types: Warning, Shutdown, Electrical Trip,

Alarm List – Warnings/Shutdowns; 250 Event

Fuel Level: Warning – 15%; Shutdown – 5%

Engine Diagnostic Warnings Communicated

Battery Voltage: Over - 15 VDC; Under - 11

Generator Over Voltage: Warning - 110%;

Generator Under Voltage: Warning - 90%;

Generator Over Frequency: Warning - 105%;

Generator Under Frequency: Warning - 95%;

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Overspeed Protection: Shutdown - 110%

- Unlimited hours covered in first year

CONTROL SYSTEM



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

ELECTRICAL CONTROLS

• Voltage adjustment ±10%

LCD ALARM INDICATION

· Generator Diagnostic Display

- 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

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CONFIGURABLE OPTIONS*

ENGINE SYSTEM

- Positive Air Shutdown (PAS), Electronic
- o Oil Evacuation System requires customersourced, specialized equipment to use for oil change

COLD WEATHER

- Engine Block Heater included with selection of any other CW heater option
- Two Heated Fuel Filters
- Oil Heater
- Crankcase Ventilation (CCV) System Heater
- Battery Heater
- o 10 A Battery Charger
- o 60/40 Coolant (60% Ethylene Glycol)

CONTROL SYSTEM

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

RATING DEFINITIONS

FUEL SYSTEM

- · Containment Pan for use with standard single wall fuel tank
 - · 110% Containment engine fluid (oil, coolant, & DEF) and fuel
- Double Wall Fuel Tank
 - 110% Containment engine fluid (oil, coolant, & DEF) and fuel
 - UN31A Certification
 - UL142/ULC-S601 Certification
- Fuel Tank Capacity gal (L)
 - Total: 128 (485)
 - Usable: 120 (454)
- o Runtime @ 75% load: 26.5 hr
- · Engine Fluid & Fuel Leak Detection Sensor option available only with selection of double wall fuel tank option

ALTERNATOR SYSTEM

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

POWER DISTRIBUTION

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

ENCLOSURE

- Control Panel Lights
- Interior Lights
- Fire Extinguisher

TRAILER

- Skid Mount (Non-trailer)
- Electric Brakes
- Tandem Axle
- o 2-5/16 in. (58.7 mm) Ball Hitch, Adjustable
- o 2 in. (50.8 mm) Ball Hitch, Adjustable
- Rear Stabilizer Jacks 0
- Toolbox Aluminum, 49 x 15 x 18.5 in. (125 x 38 x 0 47 cm)
- Spare Tire

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. *Consult factory for availability

1E GENERAC MOBILE

Spec Sheet





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APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make (Model)	John Deere (4045HFG04)
EPA Emissions Compliance	Tier 4 Final
After Treatment System	DOC and SCR
Cylinder #	4
Туре	In-line
Displacement: in ³ (L)	275 (4.5)
Bore: in (mm)	4.2 (10.6)
Stroke: in (mm)	5.0 (12.7)
Compression Ratio	17:1
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, Full Flow
Engine Oil Capacity: qt (L)	15.9 (15)

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 (mm)	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	Primary: 10 Final: 2
Fuel Injection Pump – Make (Model)	Denso (HP3)
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 Charger Alternator – VDC (A)	12 (90)
Battery – CCA	720
Battery – V (Qty)	12 (1)
Ground Polarity	Negative (-)

STANDARD ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric (362CSL1606)
Poles	4
Field Type	Rotating
Insulation Class — Rotor	Class H
Insulation Class — Rotor	Class H
Total Harmonic Distortion (THD)	<3.5%
Telephone Interference Factor (TIF)	<50

Standard Excitation	Shunt
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)	$\pm 0.5\%$

SUPERSTART ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric (362PSL1650
Poles	4
Field Type	Rotating
Insulation Class — Rotor	Class H
Insulation Class — Rotor	Class H
Total Harmonic Distortion (THD)	<3.5%
Telephone Interference Factor (TIF)	<50

Standard Excitation	Shunt
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)	$\pm 0.5\%$

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APPLICATION AND ENGINEERING DATA (CONTINUED)

VFLEX ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric (362PSL36115)
Poles	4
Field Type	Rotating
Insulation Class — Rotor	Class H
Insulation Class — Rotor	Class H
Total Harmonic Distortion (THD)	<3.5%
Telephone Interference Factor (TIF)	<50

Standard Excitation	Shunt
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)	$\pm 0.5\%$

OPERATING DATA

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)
1-phase, 120/240 VAC @ 1.0 pf-zig zag*	78/78 (325)	78/78 (325)	78/78 (325)	78/78 (325)	40/40 (166)	40/40 (166)
3-phase, 120/208 VAC @ 0.8 pf-low wye	85/106 (295)	80/100 (278)	85/106 (295)	80/100 (278)	83/104 (288)	78/98 (271)
3-phase, 120/240 VAC @ 0.8 pf-delta**	85/106 (256)	80/100 (241)	85/106 (256)	80/100 (241)	83/104 (250)	78/98 (235)
3-phase, 277/480 VAC @ 0.8 pf-high wye	85/106 (128)	80/100 (120)	85/106 (128)	80/100 (120)	85/106 (128)	80/100 (120)
3-phase, 346/600 VAC @ 0.8 pf-high wye	N/A	N/A	N/A	N/A	85/106 (102)	80/100 (96)

*Alternator limited.

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

FUEL CONSUMPTION RATES

Prime Load	Fuel: gph (L/hr)	DEF: gph (L/hr)
25%	1.9 (7.2)	0.07 (0.26)
50%	3.2 (12.1)	0.13 (0.49)
75%	4.5 (17.0)	0.20 (0.76)
100%	6.0 (22.7)	0.26 (0.98)
110% (Standby)	6.4 (24.2)	0.31 (1.17)

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, ISO8665, ISO3046, SAE J1228, SAE J1995, and DIN6271 standards.

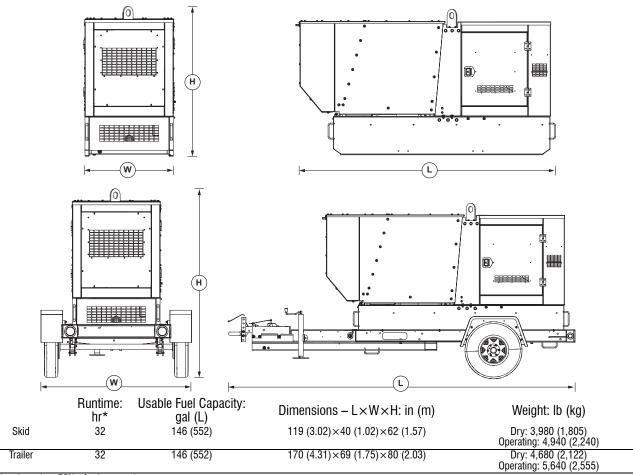




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DIMENSIONS AND WEIGHTS*



*Runtime based on 75% of prime rated power

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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GENERAC MOBILE