

MDG75DF4 | 4.5 L | 75 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier 4 Final

Standby Power Rating

68 kW, 85 kVA, 60 Hz

Prime Power Rating

60 kW, 75 kVA, 60 Hz



*Assembled in the USA using domestic and foreign parts



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.

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: 97 (73)
 - Standby: 107 (80)
- 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 107 °F (401.7 °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: 39 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
- 300 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 Twist-lock (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

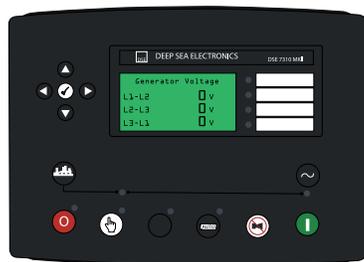
TRAILER

- Hydraulic Surge Brakes
- 3 in (76.2 mm) Pintle Ring
- Single 6,000 lb (2,722 kg) Axle
- 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

- 2 year limited or 2,000 hours
 - 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

- 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

- 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

MDG75DF4 | 4.5 L | 75 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier 4 Final

GENERAC | MOBILE

CONFIGURABLE OPTIONS*

ENGINE SYSTEM

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

COLD WEATHER

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

CONTROL SYSTEM

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

FUEL SYSTEM

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

ALTERNATOR SYSTEM

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

POWER DISTRIBUTION

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

ENCLOSURE

- o Control Panel Lights
- o Interior Lights
- o Fire Extinguisher

TRAILER

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

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.

*Consult factory for availability



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 |
| Type | 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 (361PSL1647) |
| Poles | 4 |
| Field Type | Rotating |
| Insulation Class — Rotor | Class H |
| Insulation Class — Stator | 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) | ± 0.5% |

SUPERSTART ALTERNATOR SPECIFICATIONS

| | |
|-------------------------------------|--------------------------------|
| Make (Model) | Marathon Electric (362PSL1650) |
| Poles | 4 |
| Field Type | Rotating |
| Insulation Class — Rotor | Class H |
| Insulation Class — Stator | 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) | ± 0.5% |

APPLICATION AND ENGINEERING DATA (CONTINUED)

VFLEX ALTERNATOR SPECIFICATIONS

| | | | |
|-------------------------------------|---------------------------------|------------------------------------|----------------------|
| Make (Model) | Marathon Electric (361PSL36113) | Standard Excitation | Shunt |
| Poles | 4 | Bearings | Single Bearing |
| Field Type | Rotating | Coupling | Direct Flexible Disc |
| Insulation Class — Rotor | Class H | Prototype Short Circuit Test | Yes |
| Insulation Class — Stator | Class H | Voltage Regulator Type | AVR |
| Total Harmonic Distortion (THD) | <3.5% | Quantity of Sensed Phases | 1 |
| Telephone Interference Factor (TIF) | <50 | Regulation Accuracy (Steady State) | ± 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* | 55/55 (229) | 55/55 (229) | 55/55 (229) | 55/55 (229) | 29/29 (121) | 29/29 (121) |
| 3-phase, 208/120 VAC @ 0.8 pf-low wye | 68/85 (236) | 60/75 (208) | 68/85 (236) | 60/75 (208) | 60/75 (208) | 52/65 (180) |
| 3-phase, 240/120 VAC @ 0.8 pf-delta** | 68/85 (204) | 60/75 (180) | 68/85 (204) | 60/75 (180) | 60/75 (180) | 52/65 (156) |
| 3-phase, 480/277 VAC @ 0.8 pf-high wye | 68/85 (102) | 60/75 (90) | 68/85 (102) | 60/75 (90) | 68/85 (102) | 60/75 (97) |
| 3-phase, 600/346 VAC @ 0.8 pf-high wye | N/A | N/A | N/A | N/A | 68/85 (81) | 60/75 (75) |

*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% | 1.7 (6.4) | 0.05 (0.19) |
| 50% | 2.6 (9.8) | 0.10 (0.38) |
| 75% | 3.7 (14.0) | 0.16 (0.61) |
| 100% | 4.9 (18.5) | 0.21 (0.79) |
| 110% (Standby) | 5.1 (19.3) | 0.22 (0.83) |

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

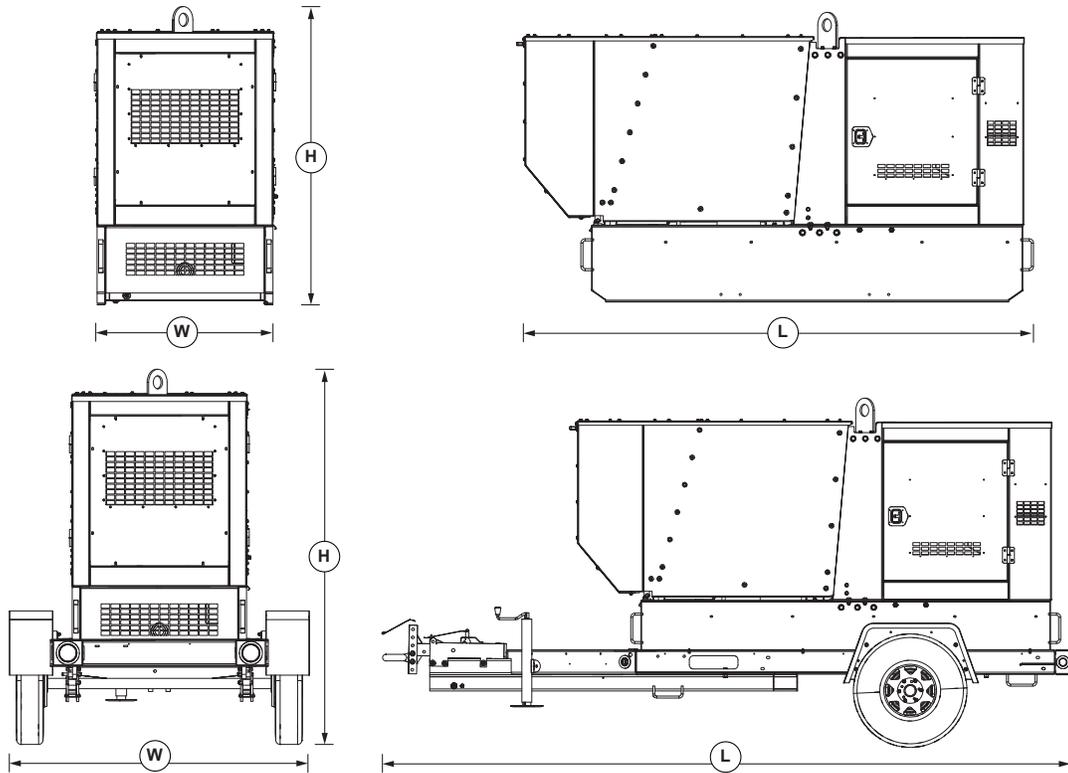
Please consult a Generac Mobile Authorized Service Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, ISO8665, ISO3046, SAE J1228, SAE J1995, and DIN6271 standards.

MDG75DF4 | 4.5 L | 75 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier 4 Final

DIMENSIONS AND WEIGHTS*



| | Runtime: hr* | Usable Fuel Capacity: gal (L) | Dimensions – L×W×H: in (m) | Weight: lb (kg) |
|---------|-----------------|----------------------------------|--------------------------------|------------------------------------------------|
| Skid | 39 | 146 (552) | 119 (3.02)×40 (1.02)×62 (1.57) | Dry: 3,830 (1,740) Operating: 4,790 (2,170) |
| Trailer | 39 | 146 (552) | 170 (4.31)×69 (1.75)×80 (2.03) | Dry: 4,530 (2055) Operating: 5,490 (2,490) |

*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.