

# MDG25IF4 | 2.2 L | 25 kVA

## MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4



### Standby Power Rating

25 kW, 31 kVA, 60 Hz

### Prime Power Rating

20 kW, 25 kVA, 60 Hz



Image used for illustration purposes only

## Codes and Standards

Generac Mobile products are designed to the following standards:



CSA



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**

- Isuzu® 4LE2T
- 4 cylinders
- Turbocharged
- Displacement: 133 in<sup>3</sup> (2.2 L)
- EPA Final Tier 4
- Turbocharger wastegate
- Power @ 1,800 rpm: 40 hp (30 kW):

**Fuel System**

- Usable fuel tank capacity: 48 gal (181 L):
- Maximum run time @ 100% load: 24 h
- Fuel consumption @ prime – gph (Lph):
  - 25% load: 0.7 (2.6)
  - 50% load: 1.1 (4.2)
  - 75% load: 1.6 (6.1)
  - 100% load: 2.0 (7.4)

**Cooling System**

- Capable of operating at 110 °F (43 °C) ambient
- Coolant capacity: 4.4 gal (17 L)
- Oil filter: Spin-on cartridge
- Air filter: Disposable – paper element
- Radiator and oil drains plumbed to exterior

**SYSTEM OUTPUTS**

- Voltage selection: 3-position, lockable switch
  - 1-phase: 120/240 V Zig Zag
  - 3-phase: 120/208 V Low Wye
  - 3-phase: 277/480 V High Wye
- Electrical power output – kW (kVA):
  - 1-phase standby: 17.5 (17.5)
  - 1-phase prime: 17.5 (17.5)
  - 3-phase standby: 25 (31)
  - 3-phase prime: 20 (25)

**GENERATOR**

- 60 Hz engine/generator
- Marathon Electric® 282PSL1705
  - Brushless)
  - 4-pole
  - Insulation: Class H
- Voltage regulation ±0.5% with PM600 AVR

**ENCLOSURE**

- Aluminum, sound attenuated enclosure
  - UV and fade resistant, high temperature cured, white polyester powder paint
  - Insulated and baffled
  - 67 dB(A) @ 23 ft (7 m) @ prime power
- Fully lockable – including doors and fuel 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**

- DOT approved tail, side, brake, and directional lights; recessed rear lights
- Transportation tie downs
- Safety chains with spring loaded safety hooks
- 3 in (76.2 mm) lunette ring hitch
- Single-axle – 3,100 lb (1,406 kg)
- 2,000 lb (907 kg) tongue jack w/footplate
- Tires: ST175/90D13, tubeless

**WARRANTY**

- 2 year limited or 2,000 hours
  - Unlimited hours covered in first year

**CERTIFICATIONS**

- CSA
- Tier 4 final
- ISO 8528-5 G2

**SYSTEM CONTROLS****Deep Sea® Controller And Display**

- Model DSE7310 MKII
- 4-line back-lit LCD text display
- -22 to 158 °F (-30 to 70 °C) operating temperature range

**Push Buttons For Easy Operation**

- Manual or Auto start
- Engine start
- Engine stop/reset
- User-friendly setup and button layout
- Five key menu navigation

**LCD Alarm Indication**

- Generator diagnostic display
  - System kW 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%
  - Coolant temperature: warning – 194 °F (90 °C); shutdown – 205 °F (96 °C)
  - Battery voltage: over – 15 VDC; under – 11 VDC
  - Generator over voltage: warning – 110%; electrical trip – 115%
  - Generator under voltage: warning – 87%; shutdown – 86%
  - Generator over frequency: warning – 105%; electrical trip – 110%
  - Generator under frequency: warning – 95%; electrical trip – 90%
- Auto-schedule
- Status
- View controller parameters (configuration, firmware version, connections)

**ELECTRICAL CONTROLS**

- Remote start/stop contacts in receptacle box
- Lockable control box door with window
- Lockable lug box with safety switch
  - Trips main breaker when door is opened
- Output ground connection lug inside lug box
- 125 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)
  - Two 240 V, 50 A, 3-pole, 4-wire, twistlock outlets (Non-NEMA 6369)
- Voltage adjustment through rheostat dial
- One 12 V, 720 CCA, wet cell battery

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### OPTIONS\*

#### ENGINE SYSTEM

- Block heater
- Fuel filter heater
- CCV heater
- 60/40 coolant
- Oil pan heater
- Positive air shutdown
- Cam locks
- 10A battery charger

#### FUEL SYSTEM

- 110% fluid containment
- Aux fuel connection for day tank
- Leak detect

#### TRAILER

- Full size spare tire
- Tool box / storage bin
- 2-5/16 in (5.9 cm) ball
- Surge brakes
- Electric brakes
- Stabilizer jacks

#### CABINET

- Fire extinguisher

#### CONTROL SYSTEM

- 4-position selector switch
- PMG
- Buck transformer

#### GENERATOR SYSTEM

- SUPERSTART®



### 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

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### APPLICATION AND ENGINEERING DATA

#### ENGINE SPECIFICATIONS

##### General

Make (Model)	Isuzu® (4LE2T)
EPA Emissions Compliance	Final Tier 4
After-Treatment System	DOC
Cylinders: Configuration-Qty	Inline-4
Displacement: in <sup>3</sup> (L)	133 (2.2)
Bore: in (mm)	3.35 (85)
Stroke: in (mm)	3.78 (96)
Compression Ratio	17.6:1
Intake Air Method	Turbocharged

##### 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)	8.9 (8.4)

##### Cooling System

Cooling System Type	Pressurized closed
Water Pump Type	Belt driven
Fan Type	Pusher
Fan Speed: rpm	1,800
Fan Diameter: in (mm)	15.75 (400)
Coolant System Capacity: gal (L)	4.4 (17)

##### Fuel System

Fuel Type	Ultra low sulfur diesel
Fuel Specifications	EN 590 / ASTM D974
Fuel Filtering: $\mu$	2
Fuel Injection Pump: Make (Model)	HP6
Fuel Pump Type	Engine driven – gear
Injection Type	Electronic
Engine Type	Direct Injection
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	STD
Battery: CCA	720
Battery: V (Qty)	12 (1)
Ground Polarity	Negative (-)

#### ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric® (282PSL1705)
Poles: Qty	4
Field Type	Rotating
Insulation Class—Rotor	H
Insulation Class—Stator	H
Total Harmonic Distortion (THD)	<5%
Telephone Interference Factor (TIF)	<50
Standard Excitation	Brushless

Bearings	double shielded, pre-lubricated
Coupling	Direct, flexible disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	AVR
Number of Sensed Phases	1
Regulation Accuracy (Steady State)	$\pm 0.5\%$

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# GENERAC®

# MOBILE

### OPERATING DATA

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#### POWER RATINGS

	Standby: KW/kVA (A)	Prime: KW/kVA (A)
1-phase, 120/240 VAC @ 1.0 pf	17.5/17.5 (73)	17.5/17.5 (73)
3-phase, 120/208 VAC @ 0.8 pf	25/31 (86)	20/25 (70)
3-phase, 120/240 VAC @ 0.8 pf*	25/31 (75)	20/25 (60)
3-phase, 277/480 VAC @ 0.8 pf	25/31 (37)	20/25 (30)

\* Power ratings achieved through use of optional 4-position phase switch.

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#### STARTING CAPABILITIES (sKVA)

##### 2 × Rated sKVA vs. Voltage Dip

	208 VAC	480 VAC
Standard	24.1%	21.7%
SUPERSTART®	22.6%	17.0%

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#### FUEL CONSUMPTION RATES

Load	Fuel: gph (Lph)	
	@ Standby	@ Prime
25%	0.6 (2.2)	0.7 (2.6)
50%	1.2 (4.4)	1.1 (4.2)
75%	1.7 (6.5)	1.6 (6.1)
100%	2.3 (8.6)	2.0 (7.4)

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.

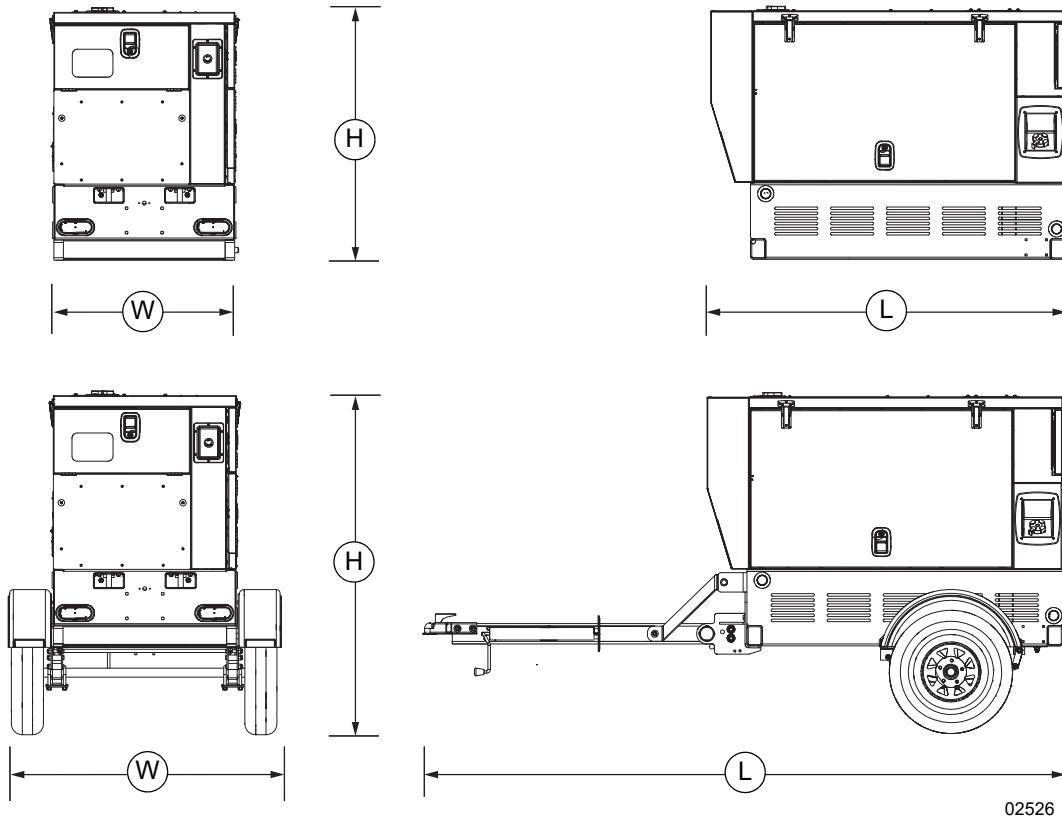
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**DIMENSIONS AND WEIGHTS\***



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	Run Time: hr	Usable Fuel Capacity: gal (L)	Dimensions – L×W×H: in (m)	Weight: lb (kg)
Skid	24	48 (181)	70×35×48 (1.78×.89×1.22)	Dry: 1,977 (896) Operating: 2,373 (1,076)
Trailer	24	48 (181)	129×53×65 (3.28×1.35×1.65)	Dry: 2,246 (1,018) Operating: 2,642 (1,198)

\* 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.