

MDG25IF4 | 2.2 L | 25 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Final Tier 4

GENERAC® | MOBILE

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® 4LE2TAGV08
- 4 cylinder
- Turbocharged
- 134 in³ (2.2 L) displacement
- EPA Final Tier 4 approved
- Prime power @ 1,800 rpm – hp (kW): 40 (30)
- Iso mounted engine supports
- Paper element air filter with safety cartridge
- Electronic isochronous governing
- Fixed speed fan drive
- Spin-on cartridge oil filter

FUEL SYSTEM

- Fuel tank capacity – gal (L):
 - Total: 62 (234)
 - Usable: 56 (211)
- Maximum run time @ 100% load – hr: 28

COOLING SYSTEM

- Capable of operating at 120 °F (49 °C) ambient
- Oil filter: Spin-on cartridge, full flow
- Air filter: Disposable – paper element
- Radiator and oil drains plumbed to exterior

SYSTEM OUTPUTS

- Voltage selection switch: 3-position, lockable

GENERATOR

- 60 Hz engine/generator
- Marathon Electric® 282PSL1705
 - Brushless
 - 4-pole
 - Class H insulation

ENCLOSURE

- Steel, sound attenuated
 - Paint: UV and fade resistant, high temperature cured, white polyester powder
 - Insulated
- 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

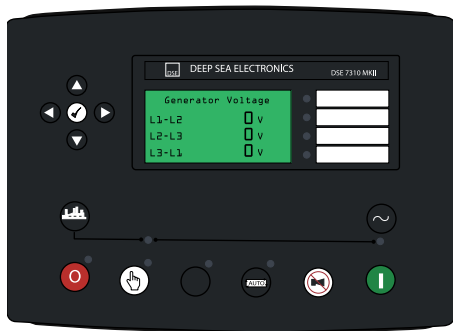
TRAILER

- DOT approved tail, side, brake, and directional lights; recessed rear lights
- Transportation tie downs
- Safety chains with spring loaded safety hooks
- 2 in (50.8 mm) ball hitch
- Single axle – 3,500 lb (1,587 kg)
- 2,000 lb (907 kg) tongue jack with footplate
- Tires: ST185/80D13

WARRANTY

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

CONTROL SYSTEM



010643

Deep Sea® 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 & 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
- 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%
- Generator under frequency: warning – 95%; electrical trip – 90%
- Auto-schedule
- Status

ELECTRICAL CONTROLS

- Remote start/stop contacts located 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
- 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)
 - Three 240 V, 50 A, 3-pole, 4-wire twistlock outlets (non-NEMA 6369)
- Voltage adjustment ±10%
- One 12 V, 720 CCA, wet cell battery

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GENERAC®

MOBILE

OPTIONS*

ENGINE SYSTEM

- Block heater
- 60/40 coolant
- Heated fuel filter
- Electronic positive air shutdown
- Oil pan heater
- Alternate load device
- CCV heater

FUEL SYSTEM

- Auxiliary fuel system
- Leak detection
- Containment

TRAILER

- Electric brakes
- Toolbox: Diamond plate, 49×15×18.5 in (125×38×47 cm)
- Rear stabilizer jacks
- 2 in (50.8 mm) BULLDOG® hitch

- 2-5/16 in (58.7 mm) BULLDOG hitch
- 3 in (76.2 mm) lunette ring
- Spare tire

CABINET

- Fire extinguisher

CONTROL SYSTEM

- 4-position phase switch
- PMG
- Buck transformer
- Cam locks: Single set, female
- 10 A battery charger
- Battery disconnect switch

CAN PACKAGE

- Two heated fuel filters
- Block heater
- Oil pan heater
- CCV heater
- 60/40 coolant
- Containment

CAN6 PACKAGE

- Two heated fuel filters
- Block heater
- Oil pan heater
- CCV heater
- 60/40 coolant
- Containment
- VFLEX alternator (600 V)

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



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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 – Qty	4
Type	In-Line
Displacement – in ³ (L)	134 (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 Driven
Oil Filter Type	Spin-On Cartridge, Full Flow
Crankcase Capacity – qt (L)	10.9 (10.4)

Cooling System

Cooling System Type	Radiator
Water Pump Type	Belt Driven
Fan Type	Pusher
Fan Speed – rpm	2,016
Fan Diameter – in (cm)	15.75 (40)
Cooling System Capacity – qt (L)	17.6 (16.6)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel
Fuel Specifications	EN 590 / ASTM D975
Fuel Filtering – μ	Primary: 10 Final: 2
Fuel Inject 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 (50)
Battery Size – CCA	720
Battery Voltage (Battery Qty)	12 (1)
Ground Polarity	Negative (-)

ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric (282PSL1705)
Poles – Qty	4
Field Type	Rotating
Insulation Class - Rotor	Class H
Insulation Class - Stator	Class H
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 (283PSL1707)
Poles – Qty	4
Field Type	Rotating
Insulation Class – Rotor	H
Insulation Class – Stator	H
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%

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APPLICATION AND ENGINEERING DATA (CONTINUED)

VFLEX ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric (283PSL28106)	Standard Excitation	Brushless
Poles – Qty	4	Bearings	Double Shielded, Prelubricated
Field Type	Rotating	Coupling	Direct Flexible Disc
Insulation Class – Rotor	H	Prototype Short Circuit Test	Yes
Insulation Class – Stator	H	Voltage Regulator Type	AVR
Total Harmonic Distortion	<5%	Quantity of Sensed Phases	1
Telephone Interference Factor	<50	Regulation Accuracy (Steady State)	±0.5%

OPERATING DATA

POWER RATINGS

	Standby: kW/kVA (A)	Prime: kW/kVA (A)
1-phase, 120/240 VAC @ 1.0pf*	17.5/17.5 (73)	17.5/17.5 (73)
3-phase, 120/208 VAC @ 0.8pf	25/31 (86)	20/25 (70)
3-phase, 120/240 VAC @ 0.8pf**	25/31 (75)	20/25 (60)
3-phase, 277/480 VAC @ 0.8pf	25/31 (37)	20/25 (30)
3-phase, 346/600 VAC @ 0.8 pf***	25/31 (29)	20/25 (24)

*Alternator limited.
**Power ratings achieved through use of optional 4-position phase switch.
***Power ratings achieved through use of optional VFLEX alternator.

FUEL CONSUMPTION RATES

Load	Fuel: gph (Lph)	
	Standby	Prime
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 Products Authorized Service Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, ISO8665, SAE J1228, SAE J1995, and DIN6271 standards.

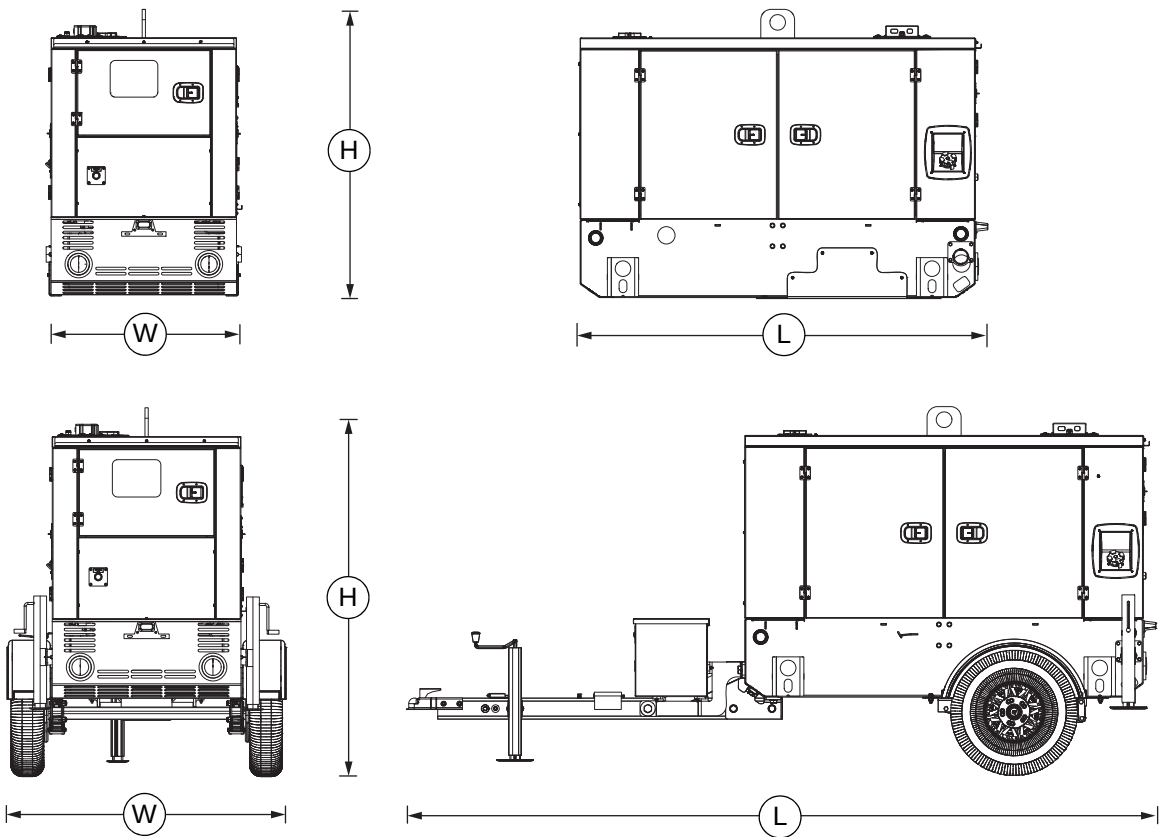
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DIMENSIONS AND WEIGHTS*



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	Run Time: hr	Usable Fuel Capacity: gal (L)	Dimensions – L×W×H: in (m)	Weight: lb (kg)	
Skid	28	56 (211)	76 (1.93)×36.37 (.92)×53.5 (1.35)	Dry:	2,010 (911)
				Operating:	2,450 (1,111)
Trailer	28	56 (211)	139.25 (3.53)×51.75 (1.31)×64.75 (1.64)	Dry:	2,247 (1,019)
				Operating:	2,771 (1,256)

SOUND RATING

- 67 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.