MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier 4 Final

GENERAC

MOBILE

Standby Power Rating 44 kW, 55 kVA, 60 Hz

Prime Power Rating 38 kW, 47 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

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

- Isuzu[®] 4LE2XAGV01
- 4 Cylinder
- Turbocharged & Aftercooled
- 134 in³ (2.2 L) Displacement
- EPA Tier 4 Final Approved
- Power @ 1,800 rpm hp (kW):
 - Prime: 57 (42.8)
 - Standby: 63.7 (47.5)
- Approved for use with Hydrotreated Vegetable Oil (HVO) fuels compliant with ASTM D975 or EN 15940
- Paper Element Air Filter
- Electronic Isochronous Governing
- Fixed Speed Fan
- One Spin-on Cartridge Oil Filter
- Oil Drain Extension
- Two Fuel Filters
- One 12 V, 720 CCA, Wet Cell Battery

COOLING SYSTEM

- Capable of Operating at 120 °F (49 °C) Ambient
- 50/50 Coolant (50% Ethylene Glycol)
- Coolant Drain Extension

FUEL SYSTEM

- · Polyethylene Fuel Tank
- Fuel Tank Capacity gal (L):
 - Total: 100 (379)
 - Usable: 90 (341)

CONTROL SYSTEM



CONTROLLER AND DISPLAY

- Controller: Deep Sea Electronics Model DSE8610
 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

- Runtime @ 75% Load: 36 hr
- 110% Containment engine fluid (oil & coolant) and fuel
- Padlockable Fuel Cap

CONTROL SYSTEM

- Deep Sea Electronics® 7310 MKII Controller
- 3-Position Voltage Selection Switch
 225 A Main Circuit Breaker (MCB). Manual. with
- Shunt Trip
- Individual Convenience Receptacle Circuit Breakers
- Emergency Stop Switch
- Battery Disconnect Switch, Padlockable
- 2-Wire Remote Start/Stop Contacts

ALTERNATOR SYSTEM

- 60 Hz Engine-Driven Alternator
 - SUPERSTART 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)

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 and 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 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

 Three 120/240 V, 50 A, 3 Pole, 4 Wire Twistlock (CS6369)

ENCLOSURE

- Aluminum, Sound Attenuated, Insulated and Baffled
- UV and Fade Resistant, High Temperature Cured, White Polyester Powder Paint
- Central Lifting Point
- Fully Lockable Enclosure

GENERAC[®] MOBILE

- · Multi Lingual Operating and Safety Decals
- Document Holder with Owner's Manual includes AC and DC wiring diagrams
- Control Panel Lights
- Interior Lights

TRAILER

Lights

WARRANTY

- Hydraulic Surge Brakes
- 2 in. (50.8 mm) Ball Hitch
- Single 6,000 lb. (2,722 kg) Axle
- 15 in. Tires, 6 Ply, Tubeless

Transportation Tie Downs

2 year Limited or 2,000 Hours

Electrical Trip - 115%

Electrical Trip - 110%

Electrical Trip - 90%

· Lockable Control Box Door with Diagnostics

• Trips Main Breaker When Door is Opened

Output Ground Connection Lug Inside Lug Box

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Lockable Lug Box with Safety Switch

· Disables Voltage Regulator

ELECTRICAL CONTROLS

Voltage Adjustment ±10%

Auto Schedule

Status

Window

Shutdown - 85%

• 2,000 lb. (907 kg) Tongue Jack with Footplate

• DOT Approved Tail, Side, Brake, and Directional

· Unlimited Hours Covered in First Year

Generator Over Voltage: Warning – 110%;

• Generator Under Voltage: Warning - 90%;

· Generator Over Frequency: Warning - 105%;

· Generator Under Frequency: Warning - 95%;

• Safety Chains with Spring Loaded Safety Hooks

Plug Adapter, Round 7 Blade (SAE J2863)

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CONFIGURABLE OPTIONS*

ENGINE SYSTEM

- Positive Air Shutdown (PAS), Electronic
- One 12 V, 720 CCA AGM Optima Battery
- Alternate Load Device (ALD)
- Oil Evacuation System requires customersourced, specialized equipment to use for oil change

COLD WEATHER

- Engine Block Heater
- Two Fuel Filter Heaters
- $\circ~$ Crankcase Ventilation (CCV) System Heater
- 10 A Battery Charger
- 60/40 Coolant (60% Ethylene Glycol)

FUEL SYSTEM

- Steel Fuel Tank, Extended Runtime
- Fuel Tank Capacity—gal (L)
 - Total: 160 (606)
 - Usable: 144 (545)
- Runtime @ 75% Load: 57.5 hr

RATING DEFINITIONS

Auxiliary Fuel Tank Connection
 3-Way Fuel Valve

CONTROL SYSTEM

- 4-Position Voltage Selection Switch
- Telemetry
- Lojack Equipment Recovery System

ALTERNATOR SYSTEM

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

POWER DISTRIBUTION

- Camlocks—one set, female (US or Canada color code)
- Buck Transformer

ENCLOSURE

○ Fire Extinguisher

TRAILER

- Skid Mount (Non-Trailer)
- Electric Brakes
- Tandem Axle
- 2 in (50.8 mm) BULLDOG[®] Hitch
- 2-5/16 in (58.7 mm) BULLDOG Hitch
- 3 in (76.2 mm) Pintile Ring Hitch
- Rear Stabilizer Jacks
- Toolbox: Black Polymer or Aluminum, 49×15×18.5 in (125×38×47 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.







MMG45IF4 | 2.2 L | 45 kVA MOBILE DIESEL GENERATOR SET



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APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make (Model)	Isuzu (4LE2XAGV01)	
EPA Emissions Compliance	Tier 4 Final	
After Treatment System	DOC	
Cylinders – Qty	4	
Туре	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 & Aftercooled	
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)	12 (11.4)	

Cooling System

Cooling System Type	Radiator and CAC
Water Pump Type	Belt Driven
Fan Type	Pusher
Fan Speed – rpm	2,016
Fan Diameter – in (cm)	19.0 (48.3)
Cooling System Capacity – qt (L)	18 (17)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel
Fuel Specifications	EN 590 / ASTM D975
Fuel Filtering – μ	5
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 Quantity	1
Ground Polarity	Negative (-)

SUPERSTART ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric (285PSL1700)
Poles – Qty	4
Field Type	Rotating
Insulation Class - Rotor	Class H
Insulation Class - Stator	Class H
Total Harmonic Distortion	<5%
Telephone Interference Factor	<50

VFLEX ALTERNATOR SPECIFICATIONS

Make (Model)	Marathon Electric (284PSL28109)
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	Shunt
Bearings	Single Bearing
Coupling	Direct Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	AVR
Number of Sensed Phases	Single
Regulation Accuracy (Steady State)	±0.5%

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

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OPERATING DATA

POWER RATINGS

	SUPERSTART Alternator		VFLEX Alternator	
	Standby: kW/kVA (A)	Prime: kW/kVA (A)	Standby: kW/kVA (A)	Prime: kW/kVA (A)
1-Phase, 120/240 VAC @ 1.0pf—zig zag*	33/33 (138)	33/33 (138)	17/17 (71)	17/17 (71)
3-Phase, 208/120 VAC @ 0.8pf—low wye	44/55 (153)	38/47 (130)	38/48 (131)	32/40 (111)
3-Phase, 240/120 VAC @ 0.8pf—delta**	44/55 (132)	38/47 (114)	38/48 (114)	32/40 (96)
3-Phase, 480/277 VAC @ 0.8pf—high wye	44/55 (66)	38/47 (57)	48/59 (72)	37/46 (56)
3-Phase, 600/346 VAC @ 0.8pf—high wye	N/A	N/A	46/60 (52)	40/50 (48)

*Alternator limited.

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

FUEL CONSUMPTION RATES

Prime Load	Fuel: gph (L/hr)
50%	1.7 (6.4)
75%	2.5 (9.4)
100%	3.3 (12.5)
110% (Standby)	3.8 (14.4)

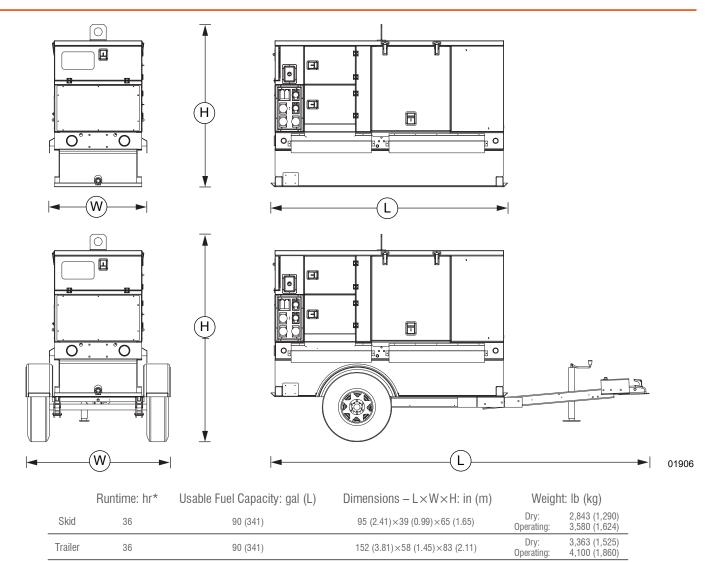
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Mobile Products Authorized Service Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, ISO8665,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



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DIMENSIONS AND WEIGHTS*



*Runtime based on 75% prime rated power.

SOUND RATING

• 66 dB(A) @ 23 ft (7 m) @ Prime Power

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC MOBILE DEALER		

SPEC SHEET

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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.