

MDE330P | 9.3 L | 330 kVA

MOBILE DIESEL GENERATOR SET

EPA Emissions Certification: Tier 4 Final

GENERAC® | MOBILE

Standby Power Rating

290 kW, 363 kVA, 60 Hz

Prime Power Rating

264 kW, 330 kVA, 60 Hz



*Assembled in the USA using domestic and foreign parts



Image used for illustration purposes only

Codes and Standards

Generac Mobile products are designed to the following standards:



CSA CERTIFIED



NATM



TIER 4 FINAL EMISSIONS

FUEL TANK
OPTIONS

UN31A CERTIFIED



ULC-S601 CERTIFIED

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

- Perkins® 1706J-E93TAG2
- 6 Cylinder
- Turbocharged & Aftercooled
- 567 in³ (9.3 L) Displacement
- Power @ 1,800 rpm – hp (kW):
 - Prime: 412 (307)
 - Standby: 453 (338)
- Approved for use with Hydrotreated Vegetable Oil (HVO) Fuels Compliant with ASTM D975 or EN 15940
- Paper Element Air Filter
- Electronic Governing
- Direct Drive Fan
- Spin On Cartridge Oil Filter
- Oil Drain Extension
- Fuel Filters
- Fuel-Water Separator Filter
- Single Wall Fuel Tank
 - Metal without full 110% Containment
 - Contains engine oil, coolant, and DEF
 - Engine Fluid Leak Detection Sensor
- Two 12 V, 950 CCA, Wet Cell Batteries

COOLING SYSTEM

- Capable of Operating at 110 °F (43 °C) Ambient (at Prime)
- 50/50 Coolant (50% Ethylene Glycol)
- Coolant Drain Extension

FUEL SYSTEM

- Single Wall Fuel Tank
 - Metal without 110% Containment
 - Contains Engine Oil, Coolant, and DEF
 - UN31A Certification

- Fuel Tank Capacity – US gal (L):
 - Total: 425 (1608)
 - Usable: 381 (1442)
- Maximum Run Time @ 75% load: 26.2 hr
- DEF Tank Capacity – US gal (L):
 - Total: 56.0 (214.0)
 - Usable: 49.0 (187.0)

CONTROL SYSTEM

- Deep Sea Electronics® 8610 MKII Controller (Non-Paralleling)
- 2-Position Link board with Switch
- 1,000A Main Circuit Breaker, Manual
- Individual Convenience Receptacle Circuit Breakers
- Emergency Stop Switch
- Hour Meter
- Lockable Battery Disconnect
- 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
- Deep Sea Electronics® A109 Digital AVR
- Permanent Magnet Generator (PMG) Excitation System

WARRANTY

- 2 year Limited or 2,000 Hours
 - Unlimited Hours Covered in First Year

POWER DISTRIBUTION

- Connection Lugs
- Convenience Receptacles
 - Two 120 V, 20 A, GFCI, Duplex Receptacles (NEMA 5-20R)
 - Three 120/240 V, 50 A, 3 Pole, 4 Wire Twist-lock Receptacles (CS6369)
- Buck Transformer

ENCLOSURE

- All Steel Construction
- UV and Fade Resistant White Polyester Powder Paint
- Central Lifting Point
- 4 Point Lift
- Fully Lockable Enclosure
- Multi Lingual Operating and Safety Decals
- Document Holder with Owner's Manual – Includes AC and DC Wiring Diagrams
- Control Panel Lights

TRAILER

- Electric Brakes
- 3 in (76.2 mm) Pintle Ring
- Two 10,000 lb (4,535 kg) Axles
- 17.5 in. Tires, Tubeless, 10 ply
- 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

CONTROL SYSTEM



013516

CONTROLLER AND DISPLAY

- Controller: Deep Sea® 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

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 – 32 VDC; Under – 18 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

- Lockable Control Box Door
- Voltage Adjustment ±10%

CONFIGURABLE OPTIONS*

ENGINE SYSTEM

- Positive Air Shutoff (PAS), Electronic
- Engine Oil Level Maintainer

COLD WEATHER

- 2,250 W Engine Block Heater
- Two Heated Fuel Filters
- 1,000 W Oil Heater
- Crankcase Ventilation (CCV) System Heater
- 30 A Battery Charger
- Two 12 V, 1,100 CCA Wet Cell Batteries (Group 4D)
- 60/40 Coolant (60% Ethylene Glycol)

FUEL SYSTEM

- Double Wall Fuel Tank
 - Metal with 110% Containment
 - Contains all Engine Oil, Coolant, DEF, and Fuel
 - Fuel Leak Detection Sensor
 - UN31A Certification
 - UL142 / ULC-S601 Certification
- Fuel Tank Capacity - US gal (L)
 - Total: 421 (1594)
 - Usable: 381 (1442)
- Runtime @ 75% Load: 26.2 hr
- Auxiliary Fuel Tank Connection
 - Contains all Engine Oil, Coolant, DEF and Fuel
 - 3-Way Manual Fuel Valve

CONTROL SYSTEM

- Paralleling Capability
 - Contains all Engine Oil, Coolant, DEF and Fuel
 - Deep Sea Electronics 8610 MKII Controller (Paralleling)
 - 1,000 A Main Circuit Breaker (MCB), Motorized
 - Mobile Switching Center (MSC) Cable Connections
- Telemetry

ALTERNATOR SYSTEM

- SUPERSTART®
- VFLEX (600 V)

POWER DISTRIBUTION

- Camlocks—Two Sets, Female (US or Canada Color Code)

ENCLOSURE

- Interior Enclosure Lights
- 5 Lb Fire Extinguisher

TRAILER

- Skid Mount (Non-trailer)
- Hydraulic Surge Brakes
- Rear Jack Group
- Toolbox—Aluminum, 49×15×18.5 in (125×38×47 cm)
- One Spare Tire
- Two Spare Tires

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)	Perkins (1706J-E93TAG2)
EPA Emissions Compliance	Tier 4 Final
After-Treatment System	DOC, SCR, & DPF
Cylinders – Qty	6
Type	In-Line
Displacement – in ³ (L)	567.52 (9.3)
Bore – in (mm)	4.52 (115)
Stroke – in (mm)	5.86 (149)
Compression Ratio	17.0:1
Intake Air Method	Turbocharged & Aftercooled

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	± 1%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Spin-On Cartridge
Crankcase Capacity – qt (L)	31.7 (30)

Cooling System

Cooling System Type	Water Cooled
Water Pump Type	Engine Gear Driven
Fan Type	Pusher
Fan Speed – rpm	1,800 RPM
Fan Diameter – in (mm)	33 (838.2)
Coolant System Capacity – US gal (L)	10.0 (37.9)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel
Fuel Specifications	ASTM D975 D2
Fuel Filtering – μ	Primary: 10 Final: 4
Fuel Pump Type	Engine Gear Driven Lift Pump
Injector Type	Electronic High Pressure Common Rail Fuel System

Engine Electrical System

System Voltage – VDC	24
Battery – CCA	950
Battery – V (Qty)	12 (2)
Ground Polarity	Negative (-)

STANDARD ALTERNATOR SPECIFICATIONS

Make (Model)	Leroy Somer (LSA 46.3 L10)
Poles – Qty	4
Field Type	Revolving
Insulation Class – Rotor	H
Insulation Class – Stator	H
Total Harmonic Distortion	<2.5%
Telephone Interference Factor	<50

Standard Excitation	PMG
Bearings	1
Coupling	14
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	1
Regulation Accuracy (Steady State)	0.50%

SUPERSTART ALTERNATOR SPECIFICATIONS

Make (Model)	Leroy Somer (LSA 46.3 L11)
Poles – Qty	4
Field Type	Revolving
Insulation Class – Rotor	H
Insulation Class – Stator	H
Total Harmonic Distortion	<2.5%
Telephone Interference Factor	<50

Standard Excitation	PMG
Bearings	1
Coupling	14
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	1
Regulation Accuracy (Steady State)	0.50%

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APPLICATION AND ENGINEERING DATA (CONTINUED)

VFLEX ALTERNATOR SPECIFICATIONS

Make (Model)	Leroy Somer (LSA 46.3 L11)	Standard Excitation	PMG
Poles – Qty	4	Bearings	1
Field Type	Revolving	Coupling	14
Insulation Class – Rotor	H	Prototype Short Circuit Test	Yes
Insulation Class – Stator	H	Voltage Regulator Type	Digital
Total Harmonic Distortion	<2%	Number of Sensed Phases	1
Telephone Interference Factor	<50	Regulation Accuracy (Steady State)	0.50%

OPERATING DATA

POWER RATINGS

	Standard Alternator		SUPERSTART Alternator		VFLEX Alternator	
	Standby: kW/kVA (A)	Prime: kW/kVA (A)	Standby: kW/kVA (A)	Prime: kW/kVA (A)	Standby: kW/kVA (A)	Prime: kW/kVA (A)
3-phase, 208/120 VAC @ 0.8 pf	288/360 (1000)	264/330 (917)	288/360 (1000)	264/330 (917)	288/360 (1000)	264/330 (917)
3-phase, 240/139 VAC @ 0.8 pf	290/363 (873)	264/330 (795)	290/363 (873)	264/330 (795)	290/363 (873)	264/330 (795)
3-phase, 480/277 VAC @ 0.8 pf	290/363 (437)	264/330 (397)	290/363 (437)	264/330 (397)	290/363 (437)	264/330 (397)
3-phase, 600/346 VAC @ 0.8 pf	N/A	N/A	N/A	N/A	290/363 (349)	264/330 (318)

FUEL AND DEF CONSUMPTION RATES

Prime Load	Fuel: US gph (L/hr)	DEF: US gph (L/hr)
25%	5.8 (22.0)	0.5 (1.8)
50%	10.1 (38.2)	0.8 (3.1)
75%	14.5 (54.9)	1.2 (4.4)
100%	19.7 (74.6)	1.6 (6.1)
110% (Standby)	22.0 (83.1)	1.8 (6.8)

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, ISO 8665, ISO 3046 SAE J1228, SAE J1995, and DIN6271 standards.

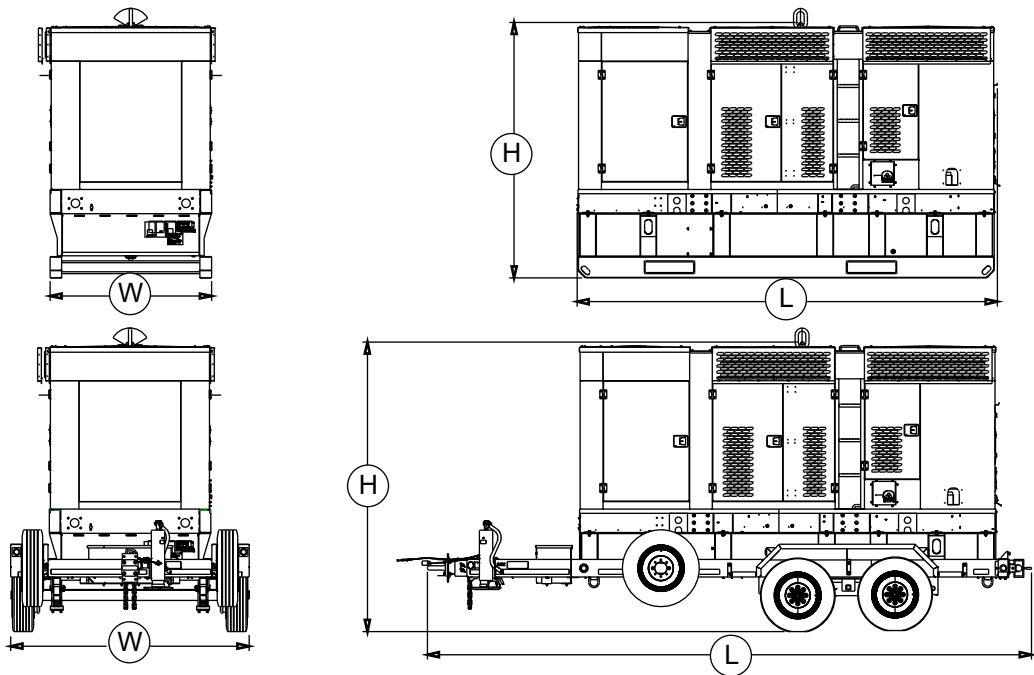
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DIMENSIONS AND WEIGHTS*



	Run Time: hr*	Usable Fuel Capacity: US gal (L)	Dimensions – L×W×H: in (m)	Weight: lb (kg)	
Skid	26.2	381 (1442)	168.0 (4.27) × 64.0 (1.6) × 101.0 (2.6)	Dry:	12,132 (5,503)
				Operating:	15,324 (6,949)
Trailer	26.2	381(1442)	232.0 (5.89) x 94.5 (2.4) x 115.0 (2.9)	Dry:	13,778 (6,249)
				Operating:	16,970 (7,697)

*Run time based on 75% of prime rated power.

SOUND RATING

- Sound Level: 75.5 dB(A)@ 23 ft (7m) & 75% PRP

* 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.