

MDE330 | 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



Picture shown may not reflect actual configuration.

Codes and Standards

Generac Mobile products are designed to the following standards:



CSA CERTIFIED



NATM



TIER 4 FINAL EMISSIONS

FUEL TANK
OPTIONS

UN31A CERTIFIED



UL142, ULC-S601 CERTIFIED

Power When 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**

- 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
- Two 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 SYSTEM (CONTINUED)

- Fuel tank capacity — US gal (L):
 - Total: 425 (1608)
 - Usable: 381 (1442)
- Runtime @ 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
- 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
 - Dual barrel
 - 2 AWG
 - 750 MCM
- Convenience Receptacles
 - Two 120 V, 20 A, GFCI, Duplex Receptacles (NEMA 5-20R)
 - Three 120/240 V, 50 A, 3 Pole, 4 Wire Twistlock Receptacles (CS6369)
- Buck Transformer

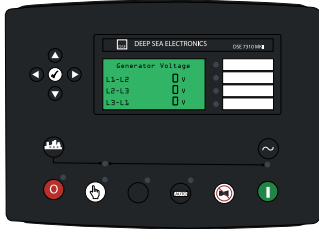
ENCLOSURE

- All Steel Construction, Sound Attenuated, Insulated
- UV and Fade Resistant, High Temperature Cured, 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
- Tires: 215/75, 17.5 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

CONTROL SYSTEM



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
- 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 $\pm 10\%$

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

CONFIGURABLE OPTIONS*

ENGINE SYSTEM

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

FUEL SYSTEM

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

COLD WEATHER

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

CONTROL SYSTEM

- Paralleling Capability
- Telemetry

ALTERNATOR SYSTEM

- SUPERSTART® Alternator
- VFLEX (600 V) Alternator

POWER DISTRIBUTION

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

ENCLOSURE

- Interior Enclosure Lights
- 5 Lb Fire Extinguisher

TRAILER

- Drag Skid (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: 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)	Perkins (1706J-E93TAG2)
EPA Emissions Compliance	Tier 4 Final
After-Treatment System	DOC, SCR, & DPF
Cylinders – Qty	6
Type	Inline
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	Gear
Oil Filter Type	Spin-On Cartridge
Engine Oil 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)
Cooling System Capacity – US gal (L)	10.0 (37.9)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel
Fuel Specifications	ASTM D975 D2
Fuel Filtering	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	4
Field Type	Revolving
Insulation Class — Rotor	Class H
Insulation Class — Stator	Class H
Total Harmonic Distortion (THD)	<2.5%
Telephone Interference Factor (TIF)	<50

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

SUPERSTART ALTERNATOR SPECIFICATIONS

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

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

APPLICATION AND ENGINEERING DATA (CONTINUED)
VFLEX ALTERNATOR SPECIFICATIONS

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

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)
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 CONSUMPTION RATES

Prime Load	Fuel: US gph (L/hr)	DEF: US gph (L/hr)
25%	4.1 (15.4)	0.09 (0.34)
50%	6.7 (25.5)	0.18 (0.68)
75%	9.2 (34.8)	0.28 (1.06)
100%	10.04 (38.0)	0.37 (1.4)
110% (Standby)	12.1 (45.8)	0.39 (1.47)

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 BS5514, SAE J1228, SAE J1995, and DIN6271 standards.

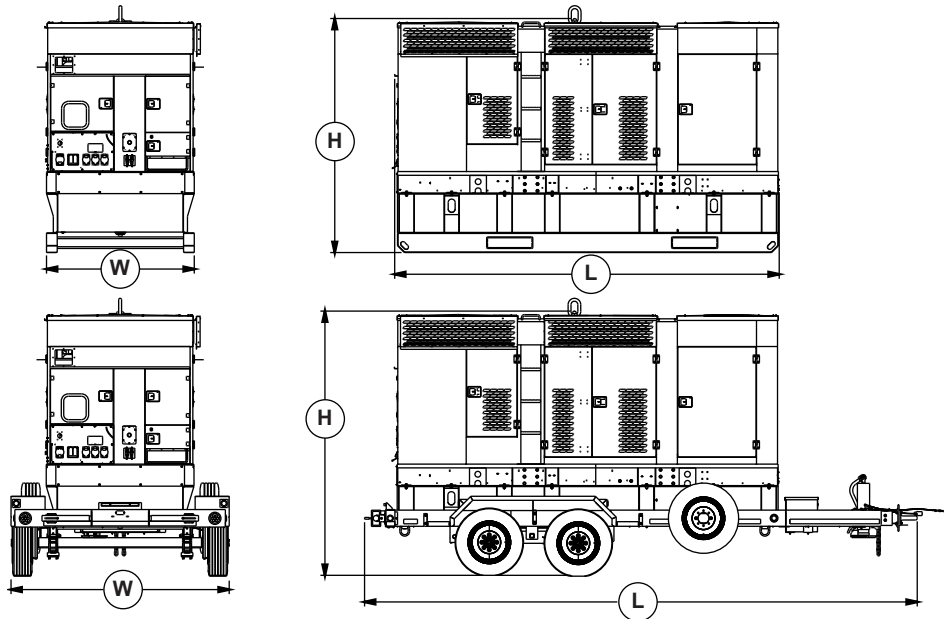
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DIMENSIONS AND WEIGHTS*



	Runtime: 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)

*Runtime based on 75% of prime rated power

SOUND RATING

- 75 dB(A) @ 23 ft (7 m) & 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.