

MGG155 | 8.1 L | 169 kVA

MOBILE GASEOUS GENERATOR

EPA Certified: Mobile and Stationary Non-Emergency

GENERAC® | **MOBILE**

Prime Power Rating

169 kVA, 135 kW, 60 Hz (NG)
150 kVA, 120 kW, 50 Hz (NG)

Continuous Power Rating

127 kVA, 101 kW, 60 Hz (NG)
113 kVA, 90 kW, 50 Hz (NG)

Standby Power Rating

203 kVA, 163 kW, 60 Hz (NG)
166 kVA, 133 kW, 50 Hz (NG)
137 kVA, 110 kW, 60 Hz (LP)
117 kVA, 93 kW, 50 Hz (LP)



Picture shown may not reflect actual configuration.

Codes and Standards

Generac Mobile products are designed to the following standards:



NATM



ISO 8528-5

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**

- Oil Drain Extension
- Dual Stage Air Cleaner
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Industrial Exhaust Silencer
- Air Filter Restriction Indicator

FUEL SYSTEM

- Automatic Changeover NG/LP
- Fuel Shutoff Solenoid
- Fuel Line NPT Connection

COOLING SYSTEM

- Close Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

LUBRICATION SYSTEM

- Full Flow Gear Pump
- Oil Make-Up System with Floating Valve
- Oil Make-Up Tank 60L

ALTERNATOR SYSTEM

- Class H Insulation
- 12 Lead
- 2/3 Pitch
- PMG Excitation System
- Full-Load Capacity Alternator

ELECTRICAL SYSTEM

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Battery Disconnect Switch
- Rubber Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

GENERATOR SET

- Internal Genset Vibration Isolation
- Wrapped Exhaust Piping
- Bottom (Floor) Power Cable Outlet
- Exhaust Silencer Mounted in Discharge Hood

ENCLOSURE

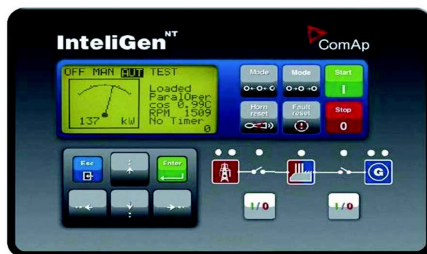
- Skid-mounted in Heavy Gauge Aluminum Sound Attenuated
- High Performance Sound Absorbing Material
- Gasketed Doors
- Upward Facing Discharge Hood (Exhaust)
- Stainless Steel Hinges

TRAILER

- Two 7,000 lb (3,175 kg) Axles
- Electric brakes
- 3 in (76.2 mm) Ring Hitch
- Transportation Tie Downs
- Safety Chains with Spring Loaded Safety Hooks
- Tongue Jack with Footplate – 10,000 lb (4,536 kg)
- Tires: 16 in (40.64 cm), 10-ply, Tubeless
- DOT Approved Tail, Side, Brake, and Directional Lights; Recessed Rear Lights
- Illuminated License Plate Holder

WARRANTY

- 1 Year or 2,000 Hours

CONTROL SYSTEM**IntelliGen NT™ Display****MANUAL PROGRAM FUNCTIONS**

- Genset START/STOP
- Operation Mode MAN/AUTO/TEST
- Manual Open/Close GCB
- Manual Open/Close MCB
- Horn Deactivation
- Fault Reset
- Menu Navigation
- E-Stop Button

CONNECTIONS AND COMMUNICATION

- CAN J1939
- RS485
- Modbus®

FULL SYSTEM STATUS DISPLAY

- Power Output (kW)
- Power Factor Cos
- kWh Total and Last Run
- Active / Reactive / Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Mains Present
- Mains Failure
- Genset Voltage Present
- Genset Failure
- Genset Circuit Breaker ON
- Mains Circuit Breaker ON

ALARMS AND WARNINGS

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Low Fuel Pressure
- Engine Over Speed
- Battery Voltage
- Alarms and Warnings Times and Date Stamped
- Snap Shot of Key Operation Parameters During Alarms and Warnings

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

| | |
|-----------------------------------|----------------------------|
| Make | PSI |
| Cylinder # | 6 |
| Type | Inline |
| Displacement: in ³ (L) | 494 (8.1) |
| Bore: in (mm) | 4.37 (111) |
| Stroke: in (mm) | 5.47 (138) |
| Compression Ratio | 10.5:1 |
| Intake Method | Turbocharged / Aftercooled |
| Connecting Rods | Steel Alloy |
| Cylinder Heads | Cast Iron OHV |
| Cylinder Liners | Cast Iron Alloy |
| Ignition | Electronic |
| Piston Type | Aluminum Alloy |
| Crankshaft Type | Forged Steel Alloy |
| Lifter Type | Solid |
| Intake Valve Material | High-Temp. Steel Alloy |
| Exhaust Valve Material | High-Temp. Steel Alloy |
| Hardened Valve Seats | High-Temp. Steel Alloy |

Engine Governing

| | |
|----------|------------|
| Governor | Electronic |
|----------|------------|

Lubrication System

| | |
|-----------------------------|----------------|
| Oil Pump | Gear |
| Oil Filter Type | Twin Full Flow |
| Engine Oil Capacity: qt (L) | 25 (24) |

Cooling System

| | |
|-----------------------|-----------------------------|
| Cooling System Type | Pressurized Closed Recovery |
| Fan Type | Pusher |
| Fan Diameter: in (mm) | 27.9 (711) |

Fuel System

| | |
|---|-----------------------------|
| Fuel Type | Natural Gas / Wellhead / LP |
| Carburetor | Down Draft |
| Secondary Fuel Regulator | EPR |
| Fuel Shutoff Solenoid | Standard (Dual) |
| Operating Fuel Pressure - in H ₂ O (kPa) | 7 - 11 (1.7 - 2.7) |

Engine Electrical System

| | |
|----------------------------|-------------------|
| System Voltage | 24V DC |
| Battery Charger Alternator | Standard |
| Battery Size | See Battery Index |
| Battery Voltage | 2 x 12 VDC |
| Ground Polarity | Negative |

ALTERNATOR SPECIFICATIONS

| | |
|-------------------------------------|-------------------|
| Standard Model | Stamford (UCI274) |
| Poles | 4 |
| Field Type | Revolving |
| Insulation Class | H |
| Total Harmonic Distortion (THD) | <5% |
| Telephone Interference Factor (TIF) | <50 |

| | |
|------------------------------------|--------------------------|
| Standard Excitation | PMG |
| Bearings | Single |
| Coupling | Direct via Flexible Disc |
| Quantity of Sensed Phases | All |
| Regulation Accuracy (Steady State) | ±0.5% |

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.

OPERATING DATA

POWER RATINGS

| | Prime NG | Continuous NG | Standby NG | Standby LP |
|---|----------------------------|----------------------------|----------------------------|----------------------------|
| Three-Phase, 400/231 VAC @ PF 0.8 50 Hz | 150 kVA / 120 kW Amps: 217 | 113 kVA / 90 kW Amps: 163 | 166 kVA / 133 kW Amps: 240 | 117 kVA / 93 kW Amps: 168 |
| Three-Phase, 480/277 VAC @ PF 0.8 60 Hz | 169 kVA / 135 kW Amps: 203 | 127 kVA / 100 kW Amps: 153 | 203 kVA / 163 kW Amps: 245 | 137 kVA / 110 kW Amps: 165 |

FUEL CONSUMPTION RATES

| Load | 50 Hz | | | | 60 Hz | | | |
|------|---------------------------|------------|------------|-----------------------|---------------------------|------------|------------|-----------------------|
| | Natural Gas: scfh (m³/hr) | | | Propane: scfh (m³/hr) | Natural Gas: scfh (m³/hr) | | | Propane: scfh (m³/hr) |
| | Prime | Continuous | Standby | Standby | Prime | Continuous | Standby | Standby |
| 100% | 1,495 (42) | 1,166 (33) | 1,640 (46) | 473 (13) | 1,712 (48) | 1,338 (38) | 2,022 (57) | 569 (16) |
| 75% | 1,162 (33) | 915 (26) | 1,270 (36) | 370 (10) | 1,336 (38) | 1,055 (30) | 1,568 (44) | 445 (13) |
| 50% | 829 (23) | 664 (19) | 901 (26) | 266 (8) | 960 (27) | 772 (22) | 1,114 (32) | 320 (9) |
| 25% | 496 (14) | 413 (12) | 532 (15) | 163 (5) | 583 (17) | 490 (14) | 661 (19) | 195 (6) |

COOLING

| | 50 Hz | 60 Hz |
|--|--------------|--------------|
| Cooling Fan Air Flow cfm (m³/min) | 10,714 (303) | 12,500 (354) |
| Coolant Flow gal/min (L/min) | 53 (200) | 63 (240) |
| Coolant System Capacity (L) | 17.5 (80) | 17.5 (80) |
| Heat Rejection to Coolant BTU/min (kcal/sec) | 7,690 (32.3) | 9,357 (39.3) |
| Maximum Cooling Intake Air Temperature °F (°C) | 122 (50) | 122 (50) |
| Maximum Allowable Pressure Cap PSI (bar) | 14.7 (1) | 14.7 (1) |

COMBUSTION AIR REQUIREMENT

| | 50 Hz | 60 Hz |
|----------------------------------|---------|----------|
| Flow at Rated Power cfm (m³/min) | 297 (8) | 355 (10) |

ENGINE

EXHAUST

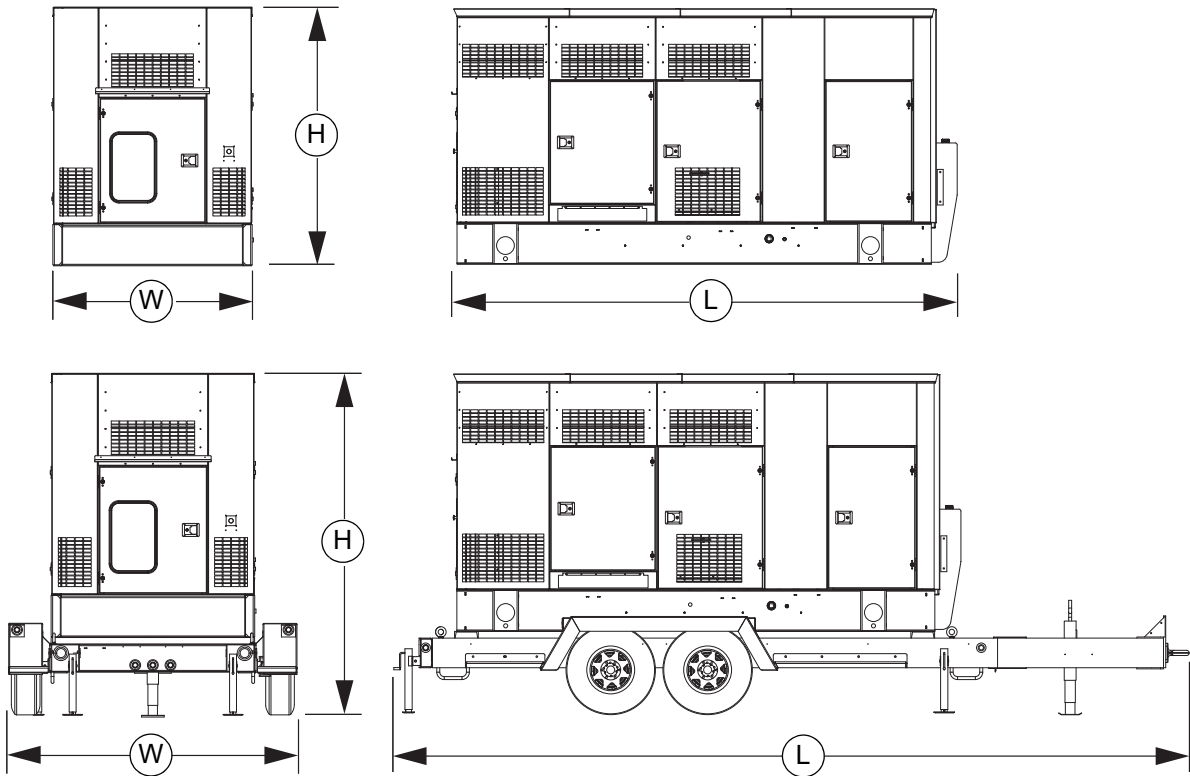
| | 50 Hz | 60 Hz |
|--|-------------|-------------|
| Rated Engine Speed (RPM) | 1,500 | 1,800 |
| Horespower at Rated RPM (NG PRP) hp (kW) | 175 (131) | 200 (149) |
| BMEP (NG PRP) PSI (kPa) | 188 (1,296) | 179 (1,234) |

| | 50 Hz | 60 Hz |
|--|-------------|-------------|
| Exhaust Flow lb/hr (kg/hr) | 1,241 (563) | 1,481 (672) |
| Max. Allowable Backpressure inHG (kPa) | 3 (10.2) | 3 (10.2) |
| Exhaust Temperature (Pre Catalyst) °F (°C) | 1,350 (732) | 1,350 (732) |

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.

DIMENSIONS AND WEIGHTS*



STANDARD ENCLOSURE

| | |
|--|--------------------------------------|
| Skid Mounted | |
| Operating Weight (Dry / Operating) - lb (kg) | 6,999 (3,174) / 7,245 (3,286) |
| L x W x H - in (m) | 169 x 66 x 92 (4.29 x 1.67 x 2.33) |
| Trailer Mounted | |
| Operating Weight (Dry / Operating) - lb (kg) | 9,399 (4,263) / 9,645 (4,374) |
| L x W x H - in (m) | 269 x 102 x 124 (6.83 x 2.59 x 3.15) |
| Noise Level | 75 dB(A) @ 23 ft (7m) |

* All measurements are approximate and for estimation purposes only.

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|--|
| 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.