

MGG280 | 14.6L | 299 kVA

MOBILE GASEOUS GENERATOR

EPA Certified: Mobile and Stationary Non-Emergency

Prime Power Rating

315 kVA, 252 kW, 60 Hz (NG)
251 kVA, 201 kW, 50 Hz (NG)
233 kVA, 186 kW, 60 Hz (LP)
180 kVA, 144 kW, 50 Hz (LP)

Continuous Power Rating

290 kVA, 232 kW, 60 Hz (NG)
230 kVA, 184 kW, 50 Hz (NG)
233 kVA, 186 kW, 60 Hz (LP)
181 kVA, 154 kW, 50 Hz (LP)

Standby Power Rating

335 kVA, 268 kW, 60 Hz (NG)
270 kVA, 216 kW, 50 Hz (NG)
278 kVA, 222 kW, 60 Hz (LP)
196 kVA, 157 kW, 50 Hz (LP)



Picture shown may not reflect actual configuration.

Codes and Standards

Generac Mobile products are designed to the following standards:



NATM

Power When You 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

- PSI engine
- 8 Cylinder
- Turbocharged & Aftercooled
- 892 in³ (14.6 L) Displacement
- Power @ 1,800 RPM -hp (kW):
 - Prime: 362 (270)
 - Standby: 253 (189)
- Engine oil replenishment system
- Two 12V, 900 (minimum) CCA, group 8D batteries
- Dual Stage Air Cleaner
- IStainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Industrial Exhaust Silencer
- Air Filter Restriction Indicator
- Full Flow Gear Pump
- Engine Oil Replenishment System
 - 16 Gallon reservoir tank
 - Oil level regulator float

COOLING SYSTEM

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory Installed Radiator
- 50/50 Coolant (50% Ethylene Glycol)
- Radiator Drain Extension

FUEL SYSTEM

- Natural Gas
- Liquid Propane
- Non-Commercial Wellhead Gas
- Automatic changeover NG/LP
- Fuel Shutoff Solenoid
- Fuel line NPT connection

CONTROL SYSTEM

- Battery Disconnect Switch
- Solenoid Activated Starter Motor
- ComAp IntelliGen NT™ digital controller
- 400A Main Line Circuit Breaker (MLCB)
- Battery disconnect
- Emergency stop

ALTERNATOR SYSTEM

- Full Load Capacity Alternator
- Four Pole
- 2/3 Pitch
- Class H Insulations
- Permanent Magnet Generator (PMG) Excitation System Rotor Dynamically Spin Balanced
- 60 Hz
- Digital AVR
- Stamford™ UC1274
 - Brushless
 - 4 Pole
 - 2/3 pitch
 - Class H insulation

POWER DISTRIBUTION

- Connection Lugs
- Convenience Receptacles
 - Two 120V, 20A, GFCI Duplex Receptacles (NEMA 5-20R)

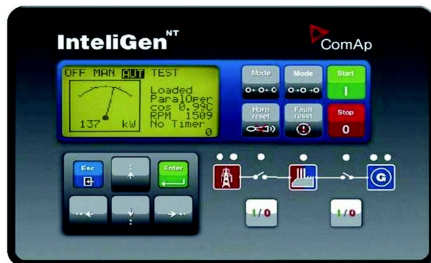
ENCLOSURE

- Heavy Gauge Aluminum Sound Attenuated Enclosure
- Skid-Mounted
- High Performance Sound Absorbing Material
- Gasketed Doors
- Upward Facing Discharge Hood (Exhaust)
- Stainless Steel Hinges
- Internal Genset Vibration Isolation
- Wrapped Exhaust Piping
- Bottom (Floor) Power Cable Outlet
- Exhaust Silencer Mounted in Discharge Hood

WARRANTY

- 1 year/unlimited hours

CONTROL SYSTEM



IntelliGen NT™ Display 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 SYTEM STATUS DISPLAY

- Power Output (kW)
- Power Factor
- 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

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Engine Coolant Heater

FREQUENCY

- 50 Hz/60 Hz Selector Switch

FUEL SYSTEM

- Parker Fuel Scrubber
- Van Air Fuel Scrubber

TRAILER

- Spare Tire
- Two 7,000 lb (3,175 kg) Axles
- Electric Brakes
- 3 in (76.2 mm) Pintle 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

SPECIALY ENGINEERED OPTIONS

ENGINE SYSTEM

- Closed Crankcase Ventilation (CCV) Heater with Blanket
- Murphy Oil Gauge

CONTROL SYSTEM

- Control Panel Lights
- Digital Controls

POWER DISTRIBUTION

- Cam Locks

RATING DEFINITIONS

Prime: Applies to supplying power to a varying load in lieu of utility for an unlimited amount of running time.

Continuous: The maximum power the generator is capable of delivering continuously while supplying a constant electrical load when operated.

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	PSI
Cylinder #	8
Type	V
Displacement: in ³ (L)	892 (14.6)
Bore: in (mm)	5.04 (128)
Stroke: in (mm)	5.59 (142)
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-Temperature Steel Alloy
Exhaust Valve Material	High-Temperature Steel Alloy
Hardened Valve Seats	High-Temperature Steel Alloy

Engine Governing

Governor	Electronic
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Lubrication System

Oil Pump	Gear
Oil Filter Type	Twin Full Flow
Engine Oil Capacity: qt (L)	32.7 (31)

Cooling System

Cooling System Type	Pressurized Closed Recovery
Fan Type	Pusher
Fan Diameter: in (mm)	45 (1,143)

Fuel System

Fuel Type	Natural Gas / Wellhead Gas / Liquid Propane
Carburetor	Down Draft
Secondary Fuel Regulator	EPR
Fuel Shutoff Solenoid	Standard (Dual)
Engine Operating Fuel Pressure: in. H2O (kPa)	7-11 (1.7-2.7)
Inlet Gas Supply Pressure	10-20 psi NG 1-250 psi LP

Engine Electrical System

System Voltage	24 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index A0001839766
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
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±1.0%

OPERATING DATA

POWER RATINGS

	Prime NG: kVA/kW (A)	Continuous NG: kVA/KW (A)	Standby NG: kVA/kW (A)
Three Phase, 400/231 VAC @ PF 0.8 50Hz	260/208 (375)	230/184 (331)	287/230 (415)
Three Phase, 480/277 VAC @ PF 0.8 60Hz	299/237 (355)	290/232 (348)	335/268 (403)
	Prime LP: kVA/kW (A)	Continuous LP: kVA/kW (A)	Standby LP: kVA/kW (A)
Three Phase, 400/231 VAC @ PF 0.8 50Hz	174/139 (251)	181/154 (261)	190/152 (274)
Three Phase, 480/277 VAC @ PF 0.8 60Hz	221/177 (265)	233/186 (280)	203/163 (245)

FUEL CONSUMPTION RATES*

Load	50 Hz						60 Hz					
	Natural Gas: scfh (m ³ /hr)			Propane: scfh (m ³ /hr)			Natural Gas: scfh (m ³ /hr)			Propane: scfh (m ³ /hr)		
	Prime	Continuous	Standby	Prime	Continuous	Standby	Prime	Continuous	Standby	Prime	Continuous	Standby
100%	2,771 (78)	2,134 (60)	3,041 (86)	710 (20)	549 (16)	860 (24)	3,245 (92)	2,544 (72)	3,582 (101)	983 (28)	733 (21)	952 (27)
75%	2,134 (60)	1,656 (47)	2,336 (66)	549 (16)	426 (12)	664 (19)	2,546 (72)	2,020 (57)	2,799 (79)	733 (21)	577 (16)	754 (21)
50%	1,496 (42)	1,178 (33)	1,631 (46)	395 (11)	337 (10)	468 (13)	1,847 (52)	1,496 (42)	2,015 (57)	530 (15)	448 (13)	556 (16)
25%	859 (24)	700 (20)	926 (26)	259 (7)	195 (6)	271 (8)	1,147 (32)	972 (28)	1,231 (35)	372 (11)	322 (9)	358 (10)

COOLING

	50 Hz	60 Hz
Cooling Fan Air Flow cfm (m ³ /min)	25,714 (728)	30,000 (849)
Coolant Flow gal/min (L/min)	151 (570)	180 (680)
Coolant System Capacity gal (L)	33.5 (127)	33.5 (127)
Heat Rejection to Coolant BTU/min (kcal/sec)	13,904 (55)	16,189 (68)
Cooling Intake Air Temperature	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 (m ³ /min)	502 (14)	603 (17)

ENGINE

	50 Hz	60 Hz
Rated Engine Speed: RPM	1,500	1,800
Horespower at Rated RPM (NG PRP) HP (kW)	308 (230)	362 (270)
BMEP (NG PRP) PSI (kPa)	183 (1,262)	179 (1,234)

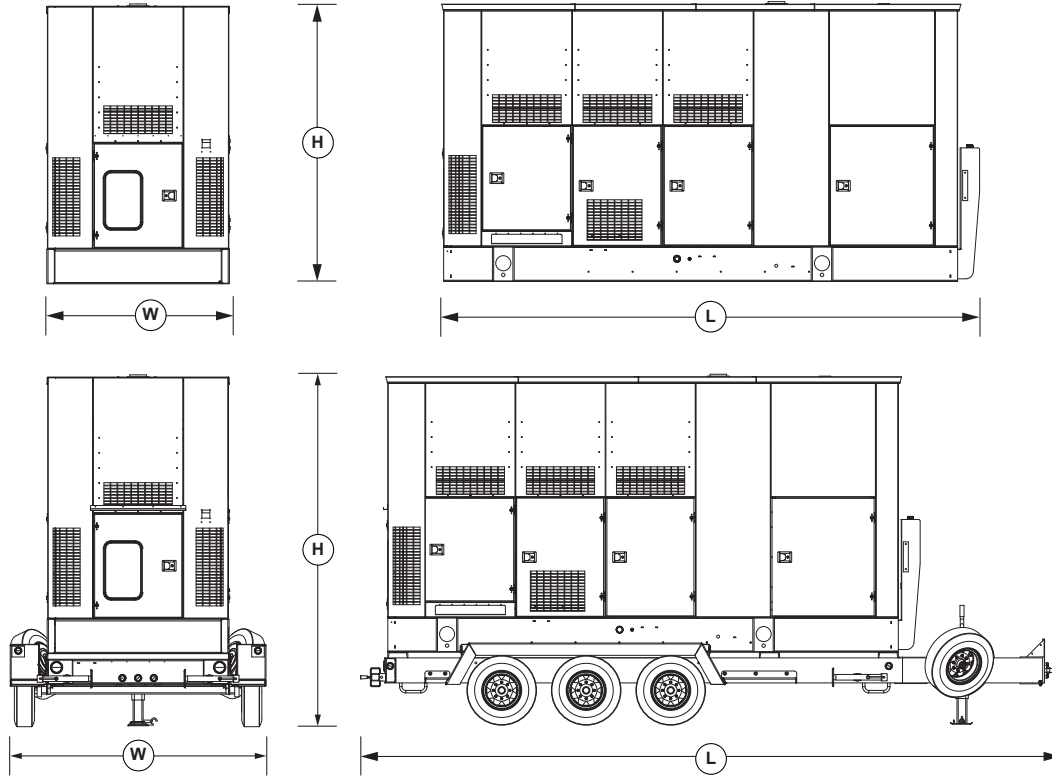
EXHAUST

	50 Hz	60 Hz
Exhaust Flow lb/hr (kg/hr)	2,094 (950)	2,782 (1,141)
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)	10,914 (4,950) / 11,291 (5,121)
L x W x H: in (m)	92 x 66 x 92 (4.87 x 1.67 x 2.33)

Trailer Mounted

Operating Weight (Dry / Operating) - lb (kg)	14,085 (6,388) / 14,462 (6,559)
L x W x H: in (m)	285 x 102 x 122 (7.25 x 2.59 x 3.05)
Noise Level - Prime (NG PRP), 60 Hz	78 dB(A) @ 23 ft (7m)

* 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.