Standby Power Rating
300 kW, 375 kVA, 60 Hz

Demand Response Rating
300 kW, 375 kVA, 60 Hz

Prime Power Rating
270 kW, 338 kVA, 60 Hz

Codes and Standards
Not all codes and standards apply to all configurations. Contact factory for details.

UL2200, UL6200, UL1236, UL489
CSA C22.2, B149
BS5514 and DIN 6271
SAE J1349
NFPA 37, 70, 99, 110
NEC700, 701, 702, 708
ISO 3046, 7637, 8528, 9001
NEMA ICS10, MG1, 250, ICS6, AB1
ANSI C62.41

Powering Ahead
Generac ensures superior quality by designing and manufacturing most of its generator components, such as alternators, enclosures, control systems and communications software. Generac also makes its own spark-ignited engines, and you’ll find them on every Generac gaseous-fueled generator. We engineer and manufacture them from the block up — all at our facilities throughout Wisconsin. Applying natural gas and LP-fueled engines to generators requires advanced engineering expertise to ensure reliability, durability and necessary performance. By designing specifically for these dry, hotter-burning fuels, the engines last longer and require less maintenance. Building our own engines also means we control every step of the supply chain and delivery process, so you benefit from single-source responsibility.

Plus, Generac Industrial Power’s distribution network provides all parts and service so you don’t have to deal with third-party suppliers. It all leads to a positive owner experience and higher confidence level. Generac spark-ignited engines give you more options in commercial and industrial generator applications as well as extended run time from utility-supplied natural gas.
MG300 | 14.2L | 300 kW
INDUSTRIAL SPARK-IGNITED GENERATOR SET
EPA Certified Stationary Emergency and Non-Emergency

STANDARD FEATURES

ENGINE SYSTEM
- Oil Drain Extension
- Air Cleaner
- Fan Guard (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer (Open Set Only)
- Oil Temperature Indication and Alarm

Fuel System
- NPT Fuel Connection on Frame
- Primary and Secondary Fuel Shutoff

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

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

ALTERNATOR SYSTEM
- UL2200 GENprotect™
- Motorized Main Line Circuit Breaker
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Permanent Magnet Excitation
- Sealed Bearing
- Amortisseur Winding
- Full Load Capacity Alternator

GENERATOR SET
- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby and Demand Response Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Units Only)

ENCLOSURE (If Selected)
- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hood (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

CONTROL SYSTEM

Power Zone® Pro Sync Controller

Program Functions
- NFPA 110 Level 1 Compliant
- Engine Protective Functions
- Alternator Protective Functions
- Digital Engine Governor Control
- Digital Voltage Regulator
- Multiple Programmable Inputs and Outputs
- Remote Display Capability
- Remote Communication via Modbus® RTU, Modbus TCP/IP, and Ethernet 10/100
- Alarm and Event Logging with Real Time Stamping
- Expandable Analog and Digital Inputs and Outputs

- Remote Wireless Software Update Capable
- Wi-Fi®, Bluetooth®, BMS and Remote Telemetry
- Built-In Programmable Logic Eliminates the Need for External Controllers Under Most Conditions
- Ethernet Based Communications Between Generators
- Programmable I/O Channel Properties
- Built-In Diagnostics
- Remote Communication via Modbus® RTU, Modbus TCP/IP, and Ethernet 10/100
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- Ethernet Based Communications Between Generators
- Programmable I/O Channel Properties
- Built-In Diagnostics

Protection
- Low Oil Pressure
- Low Coolant Level
- High/Low Coolant Temperature
- Sensor Failure
- Oil Temperature
- Over/Under Speed
- Over/Under Voltage
- Over/Under Frequency
- Over/Under Current
- Over Load
- High/Low Battery Voltage
- Battery Charger Current
- Phase to Phase and Phase to Neutral Short Circuits (I^2T Algorithm)

7 Inch Color Touch Screen Display
- Resistive Color Touch Screen
- Sunlight Readable (1400 NITS)
- Easily Identifiable Icons
- Multi-Lingual
- On Screen Editable Parameters
- Key Function Monitoring
- Three Phase Voltage, Amperage, kW, kVA, and kVAR
- Selectable Line to Line or Line to Neutral Measurements
- Frequency
- Engine Speed
- Engine Coolant Temperature
- Engine Oil Pressure
- Engine Oil Temperature
- Battery Voltage
- Hourmeter
- Warning and Alarm Indication
- Diagnostics
- Maintenance Events/Information

PARALLELING CONTROL FEATURES
- Paralleling Control (Synchronizing)
- Reverse Power
- Loss of Synchronization Between Gensets
- Load and VAR Sharing
**ENGINE SYSTEM**
- Engine Coolant Heater
- Baseframe Cover/Rodent Guard
- 2 Stage Air Cleaner
- Oil Heater
- Air Filter Restriction Indicator
- Radiator Stone Guard (Open Set Only)
- Level 1 Fan and Belt Guards (Enclosed Units Only)

**FUEL SYSTEM**
- NPT Flexible Fuel Line

**ELECTRICAL SYSTEM**
- 10A UL Listed Battery Charger
- Battery Warmer

**ALTERNATOR SYSTEM**
- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating

**CIRCUIT BREAKER OPTIONS**
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

**ENGINEERED OPTIONS**

**ENGINE SYSTEM**
- Fluid Containment Pan

**ALTERNATOR SYSTEM**
- 2nd Breaker System

**CONTROL SYSTEM**
- Battery Disconnect Switch

**GENERATOR SET**
- Special Testing
- Battery Box

**ENGINEERED OPTIONS**

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- Battery Disconnect Switch

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- Special Testing
- Battery Box
<table>
<thead>
<tr>
<th>ENGINE SPECIFICATIONS</th>
<th>DEMAND RESPONSE READY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
</tr>
<tr>
<td>Make</td>
<td>Generac</td>
</tr>
<tr>
<td>Cylinder #</td>
<td>6</td>
</tr>
<tr>
<td>Type</td>
<td>In-line</td>
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<tr>
<td>Displacement - in³ (L)</td>
<td>864.71 (14.2)</td>
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<tr>
<td>Bore - in (mm)</td>
<td>5.31 (135)</td>
</tr>
<tr>
<td>Stroke - in (mm)</td>
<td>6.50 (165)</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>9.5:1</td>
</tr>
<tr>
<td>Intake Air Method</td>
<td>Turbocharged/Aftercooled</td>
</tr>
<tr>
<td>Number of Main Bearings</td>
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</tr>
<tr>
<td>Connecting Rods</td>
<td>Steel Alloy</td>
</tr>
<tr>
<td>Cylinder Head</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Cylinder Liners</td>
<td>Ductile Iron</td>
</tr>
<tr>
<td>Ignition</td>
<td>Electronic</td>
</tr>
<tr>
<td>Piston Type</td>
<td>Aluminum</td>
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<tr>
<td>Crankshaft Type</td>
<td>Ductile Iron</td>
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<tr>
<td>Lifter Type</td>
<td>Solid</td>
</tr>
<tr>
<td>Intake Valve Material</td>
<td>Special Heat-Resistant Steel</td>
</tr>
<tr>
<td>Exhaust Valve Material</td>
<td>High Temp Steel Alloy</td>
</tr>
<tr>
<td>Hardened Valve Seats</td>
<td>High Temp Steel Alloy</td>
</tr>
</tbody>
</table>

**Engine Governing**

Governor: Electronic
Frequency Regulation (Steady State): ±0.25%

**Lubrication System**

Oil Pump Type: Gear
Oil Filter Type: Full-Flow with Cartridge
Crankcase Capacity - qt (L): 36.2 (34.3)

**Cooling System**

Cooling System Type: Pressurized Closed Recovery
Fan Type: Pusher
Fan Speed - RPM: 1,894
Fan Diameter - in (mm): 34 (864)

**Fuel System**

Fuel Type: Natural Gas
Carburetor: Down Draft
Secondary Fuel Regulator: Standard
Fuel Shut Off Solenoid: Standard
Operating Fuel Pressure - in H₂O (kPa): 7 - 11 (1.7 - 2.7)

**Engine Electrical System**

System Voltage: 24 VDC
Battery Charger Alternator: 57.5 A
Battery Size: See Battery Index 0161970SBY
Battery Voltage: (2) - 12 VDC
Ground Polarity: Negative

<table>
<thead>
<tr>
<th>ALTERNATOR SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Model</td>
</tr>
<tr>
<td>Poles</td>
</tr>
<tr>
<td>Field Type</td>
</tr>
<tr>
<td>Insulation Class - Rotor</td>
</tr>
<tr>
<td>Insulation Class - Stator</td>
</tr>
<tr>
<td>Total Harmonic Distortion</td>
</tr>
<tr>
<td>Telephone Interference Factor (TIF)</td>
</tr>
</tbody>
</table>

Standard Excitation: Permanent Magnet
Bearings: Single Sealed Ball
Coupling: Direct via Flexible Disc
Prototype Short Circuit Test: Yes
Voltage Regulator Type: Full Digital
Number of Sensed Phases: All
Regulation Accuracy (Steady State): ±0.25%
** Refer to “Emissions Data Sheet” for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.

Standby - See Bulletin 0187500SSB
Demand Response - See Bulletin 10000018250
Prime - See Bulletin 0187510SSB
DIMENSIONS AND WEIGHTS*

**OPEN SET (Includes Exhaust Flex)**
- L x W x H - in (mm): 136.0 (3,454) x 57.1 (1,450) x 67.9 (1,725)
- Weight - lbs (kg): 6,200 - 6,587 (2,812 - 2,987)

**WEATHER PROTECTED ENCLOSURE**
- L x W x H - in (mm): 174.7 (4,437) x 57.5 (1,461) x 77.8 (1,976)
- Weight - lbs (kg): Steel: 7,535 - 7,919 (3,417 - 3,591)
  Aluminum: 6,978 - 7,359 (3,165 - 3,337)

**LEVEL 1 SOUND ATTENUATED ENCLOSURE**
- L x W x H - in (mm): 200.2 (5,085) x 57.5 (1,461) x 77.8 (1,976)
- Weight - lbs (kg): Steel: 7,770 - 8,273 (3,524 - 3,752)
  Aluminum: 7,176 - 7,625 (3,254 - 3,458)

**LEVEL 2 SOUND ATTENUATED ENCLOSURE**
- L x W x H - in (mm): 180.6 (4,587) x 57.5 (1,461) x 111.3 (2,827)
- Weight - lbs (kg): Steel: 8,804 - 9,188 (3,993 - 4,167)
  Aluminum: 7,423 - 7,870 (3,366 - 3,569)

**LEVEL 3 SOUND ATTENUATED ENCLOSURE**
- L x W x H - in (mm): 207.3 (5,265) x 63.7 (1,618) x 128.9 (3,274)
- Weight - lbs (kg): Steel: 10,718 - 11,080 (4,861 - 5,025)

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.