Standby Power Rating
70 kW, 88 kVA, 60 Hz

Demand Response Rating
70 kW, 88 kVA, 60 Hz

Prime Power Rating*
63 kW, 79 kVA, 60 Hz

*EPA Certified Prime ratings are not available in the US or its Territories

Codes and Standards
Generac products are designed to the following standards:
- UL2200, UL508, UL489
- CSA 22.2
- 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.
ENGINE SYSTEM
- Oil Drain Extension
- Heavy Duty Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Critical Exhaust Silencer (Enclosed Only)

Fuel System
- Fuel Line - NPT Connection
- Primary and Secondary Fuel Shutoff

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

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

ALTERNATOR SYSTEM
- GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearings
- 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 (Enclosed Only)
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Only)

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

CONTROL SYSTEM

Digital H Control Panel—Dual 4x20 Display

Program Functions
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- 3-Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)

- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display
- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level

- Engine Speed
- Battery Voltage
- Frequency

Alarms and Warnings
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Low Fuel Pressure Alarm
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)
ENGINE SYSTEM
- Engine Coolant Heater
- Oil Heater
- Air Filter Restriction Indicator
- Stone Guard (Open Set Only)
- Critical Exhaust Silencer (Open Set Only)

ELECTRICAL SYSTEM
- 10A UL Battery Charger
- 2.5A UL Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM
- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating
- Permanent Magnet Excitation

CIRCUIT BREAKER OPTIONS
- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breaker

GENERATOR SET
- Demand Response Ready
- GenLink® Communications Software (English Only)
- Extended Factory Testing (3-Phase Only)
- 8 Position Load Center

ENCLOSURE
- Weather Protected Enclosure
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Level 2 with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Kit (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Door Open Alarm Switch

CONTROL SYSTEM
- 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Oil Temperature Indicator with Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- Remote Communication - Modem
- 10A Run Relay
- Ground Fault Indication and Protection Functions

WARRANTY (Standby Gensets Only)
- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- 7 Year Extended Limited Warranty
- 10 Year Extended Limited Warranty

ENGINEERED OPTIONS

ENGINE SYSTEM
- Coolant Heater Ball Valves
- Fluid Containment Pan

ALTERNATOR SYSTEM
- 3rd Breaker System

CONTROL SYSTEM
- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

GENERATOR SET
- Special Testing
- Battery Box

ENCLOSURE
- Enclosure Ambient Heaters
## ENGINE SPECIFICATIONS

### General

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make</td>
<td>Generac</td>
</tr>
<tr>
<td>Cylinder #</td>
<td>10</td>
</tr>
<tr>
<td>Type</td>
<td>V</td>
</tr>
<tr>
<td>Displacement - in³ (L)</td>
<td>414.96 (6.8)</td>
</tr>
<tr>
<td>Bore - in (mm)</td>
<td>3.55 (90.17)</td>
</tr>
<tr>
<td>Stroke - in (mm)</td>
<td>4.17 (105.992)</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>9.0:1</td>
</tr>
<tr>
<td>Intake Air Method</td>
<td>Naturally Aspirated</td>
</tr>
<tr>
<td>Number of Main Bearings</td>
<td>7</td>
</tr>
<tr>
<td>Connecting Rods</td>
<td>Forged Steel</td>
</tr>
<tr>
<td>Cylinder Head</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Cylinder Liners</td>
<td>No</td>
</tr>
<tr>
<td>Ignition</td>
<td>High Energy</td>
</tr>
<tr>
<td>Piston Type</td>
<td>Aluminum Alloy</td>
</tr>
<tr>
<td>Crankshaft Type</td>
<td>Steel</td>
</tr>
<tr>
<td>Lifter Type</td>
<td>Overhead Cam</td>
</tr>
<tr>
<td>Intake Valve Material</td>
<td>Steel Alloy</td>
</tr>
<tr>
<td>Exhaust Valve Material</td>
<td>Steel Alloy</td>
</tr>
<tr>
<td>Hardened Valve Seats</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Engine Governing

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Governor</td>
<td>Electronic</td>
</tr>
<tr>
<td>Frequency Regulation (Steady State)</td>
<td>± 0.25%</td>
</tr>
</tbody>
</table>

### Lubrication System

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil Pump Type</td>
<td>Gear</td>
</tr>
<tr>
<td>Oil Filter Type</td>
<td>Full-Flow Spin-On Cartridge</td>
</tr>
<tr>
<td>Crankcase Capacity - qt (L)</td>
<td>6 (5.7)</td>
</tr>
</tbody>
</table>

## ALTERNATOR SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Model</td>
<td>Generac 390 mm</td>
</tr>
<tr>
<td>Poles</td>
<td>4</td>
</tr>
<tr>
<td>Field Type</td>
<td>Revolving</td>
</tr>
<tr>
<td>Insulation Class - Rotor</td>
<td>H</td>
</tr>
<tr>
<td>Insulation Class - Stator</td>
<td>H</td>
</tr>
<tr>
<td>Total Harmonic Distortion</td>
<td>&lt; 5% (3-Phase)</td>
</tr>
<tr>
<td>Telephone Interference Factor (TIF)</td>
<td>&lt; 50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Excitation</td>
<td>Synchronous Brushless</td>
</tr>
<tr>
<td>Bearings</td>
<td>Sealed Ball</td>
</tr>
<tr>
<td>Coupling</td>
<td>Direct via Flexible Disc</td>
</tr>
<tr>
<td>Prototype Short Circuit Test</td>
<td>Yes</td>
</tr>
<tr>
<td>Voltage Regulator Type</td>
<td>Full Digital</td>
</tr>
<tr>
<td>Number of Sensed Phases</td>
<td>All</td>
</tr>
<tr>
<td>Regulation Accuracy (Steady State)</td>
<td>± 0.25%</td>
</tr>
</tbody>
</table>
**POWER RATINGS - STANDBY/DEMAND RESPONSE**

<table>
<thead>
<tr>
<th></th>
<th>Natural Gas</th>
<th>Propane Vapor/Propane Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>277/480 VAC</td>
<td></td>
</tr>
<tr>
<td>Single-Phase 120/240 VAC @1.0pf</td>
<td>64 kW</td>
<td>67 kW</td>
</tr>
<tr>
<td>Three-Phase 120/208 VAC @0.8pf</td>
<td>67 kW</td>
<td>70 kW</td>
</tr>
<tr>
<td>Three-Phase 277/480 VAC @0.8pf</td>
<td>67 kW</td>
<td>70 kW</td>
</tr>
<tr>
<td>Three-Phase 346/600 VAC @0.8pf</td>
<td>67 kW</td>
<td>70 kW</td>
</tr>
</tbody>
</table>

**STARTING CAPABILITIES (sKVA)**

<table>
<thead>
<tr>
<th></th>
<th>sKVA vs. Voltage Dip</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>277/480 VAC</td>
</tr>
<tr>
<td>Alternator kW</td>
<td>10% 15% 20% 25% 30% 35%</td>
</tr>
<tr>
<td>Standard</td>
<td>70 59 88 117 147 176 205</td>
</tr>
<tr>
<td>Upsize 1</td>
<td>100 79 118 157 197 236 275</td>
</tr>
<tr>
<td>Upsize 2*</td>
<td>130 116 174 232 290 348 406</td>
</tr>
<tr>
<td></td>
<td>208/240 VAC</td>
</tr>
<tr>
<td>Alternator kW</td>
<td>10% 15% 20% 25% 30% 35%</td>
</tr>
<tr>
<td>Standard</td>
<td>70 44 66 88 110 132 154</td>
</tr>
<tr>
<td>Upsize 1</td>
<td>100 59 89 118 148 177 206</td>
</tr>
<tr>
<td>Upsize 2*</td>
<td>130 87 131 174 218 261 305</td>
</tr>
</tbody>
</table>

**FUEL CONSUMPTION RATES**

<table>
<thead>
<tr>
<th></th>
<th>Natural Gas – ft³/hr (m³/hr)</th>
<th>Propane Vapor - ft³/hr (m³/hr)</th>
<th>Propane Liquid - gph (lph)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>25% 50% 75% 100%</td>
<td>25% 50% 75% 100%</td>
<td>25% 50% 75% 100%</td>
</tr>
<tr>
<td>Percent Load Standby</td>
<td>353 605 817 1,009 (10.0)</td>
<td>154 264 356 440 (4.4)</td>
<td>4.3 7.4 9.9 12.3 (16.3)</td>
</tr>
</tbody>
</table>

**COOLING**

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Flow (Inlet Air Combustion and Radiator) ft³/min (m³/min)</td>
<td>5,813 (164.8)</td>
</tr>
<tr>
<td>Coolant Flow gpm (lpm)</td>
<td>38 (144)</td>
</tr>
<tr>
<td>Coolant System Capacity gal (L)</td>
<td>6.3 (23.9)</td>
</tr>
<tr>
<td>Heat Rejection to Coolant BTU/hr (kW)</td>
<td>275,800 (80.8)</td>
</tr>
<tr>
<td>Maximum Operating Ambient Temperature °F (°C)</td>
<td>122 (50)</td>
</tr>
<tr>
<td>Maximum Radiator Backpressure in H₂O (kPa)</td>
<td>0.5 (0.12)</td>
</tr>
</tbody>
</table>

**COMBUSTION AIR REQUIREMENTS**

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow at Rated Power cfm (m³/min)</td>
<td>213 (6.0)</td>
</tr>
</tbody>
</table>

**ENGINE**

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Engine Speed rpm</td>
<td>1,800</td>
</tr>
<tr>
<td>Horsepower at Rated kW** hp</td>
<td>107</td>
</tr>
<tr>
<td>Piston Speed ft/min (m/min)</td>
<td>1,251 (381)</td>
</tr>
<tr>
<td>BMEP psi (kPa)</td>
<td>119 (820)</td>
</tr>
</tbody>
</table>

**EXHAUST**

<table>
<thead>
<tr>
<th></th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhaust Flow (Rated Output) cfm (m³/min)</td>
<td>680 (19.2)</td>
</tr>
<tr>
<td>Maximum Exhaust Backpressure inHg (kPa)</td>
<td>1.5 (5.1)</td>
</tr>
<tr>
<td>Exhaust Temp (Rated Output - Post Silencer) °F (°C)</td>
<td>1,250 (676.7)</td>
</tr>
</tbody>
</table>

**DEMAND RESPONSE READY**

**OPERATING DATA**
**DIMENSIONS AND WEIGHTS***

**OPEN SET (Includes Exhaust Flex)**

- **Dimensions:** L x W x H (mm) 92.9 x 2,360 x 1,016
- **Weight:** 1,929 lbs (875 kg)

**STANDARD ENCLOSURE**

- **Dimensions:** L x W x H (mm) 111.8 x 2,840 x 1,028
- **Weight:**
  - Steel: 2,370 lbs (1,075 kg)
  - Aluminum: 2,075 lbs (941 kg)

**LEVEL 1 ACOUSTIC ENCLOSURE**

- **Dimensions:** L x W x H (mm) 129.4 x 3,287 x 1,028
- **Weight:**
  - Steel: 2,590 lbs (1,175 kg)
  - Aluminum: 2,147 lbs (974 kg)

**LEVEL 2 ACOUSTIC ENCLOSURE**

- **Dimensions:** L x W x H (mm) 111.8 x 2,840 x 1,743
- **Weight:**
  - Steel: 2,611 lbs (1,275 kg)
  - Aluminum: 2,220 lbs (1,007 kg)

*All measurements are approximate and for estimation purposes only.

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**YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER**

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