Industrial Spark-Ignited Generator Set
EPA Certified Stationary Emergency

Standby Power Rating
300 kW 375 kVA 60 Hz

Prime Power Rating*
270 kW 338 kVA 60 Hz

*EPA Certified Prime ratings are not available in the U.S. or its Territories

Codes and Standards
Generac products are designed to the following standards:
- UL 2200, UL508, UL142, UL498
- NFPA70, 39, 110, 37
- NEC700, 701, 702, 708
- ISO9001, 8528, 3046, 7637, Pluses #2b, 4
- NEMA IC310, MG1, 250, ICS6, AB1
- ANSI C62.41

Powering Ahead
For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.
**SG300 Standard Features**

**ENGINE SYSTEM**
- General
  - Oil Drain Extension
  - Air Cleaner
  - Fan Guard
  - Stainless Steel flexible exhaust connection
  - Critical Exhaust Silencer
  - Factory Filled Oil
  - Radiator duct adapter (open set only)

**Fuel System**
- Primary and Secondary Fuel Shutoff
- Flexible Fuel Line – NPT Connection

**Cooling System**
- Closed Coolant Recovery System
- UV ozone resistant hoses
- Factory-installed Radiator
- Radiator drain extension
- 50/50 Ethylene glycol antifreeze

**Engine Electrical System**
- Battery charging alternator
- Battery Cables
- Battery Tray
- Solenoid activated starter motor
- Rubber-booted engine electrical connections

**ALTERNATOR SYSTEM**
- UL2200 GENprotect™
- Class H insulation material
- 2/3 Pitch
- Skewed Stator
- Permanent Magnet 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 Faping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby rated Units)
- 1 Year 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
- Gasketed doors
- Stamped air-intake louvers
- Air discharge hood for radiator-upward pointing
- Stainless steel lift off door hinges
- Stainless steel lockable handles
- Rhino Coat™ - Textured polyester powder coat

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**CONTROL SYSTEM**

Control Panel
- Digital H Control Panel – Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485
- All-Phase Sensing DVR
- Full System Status
- Utility Monitoring
- Low Fuel Pressure Indication
- 2-Wire Start Compatible
- Power Output (kW)
- Power Factor
- kW Hours, Total & Last Run

- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Water proofs/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
- 15 channel data logging
- 0.2 in/sec high speed data logging
- Alarm information automatically comes up on the display

**Alarms**
- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Battery Voltage Warning
- Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)
SG300

Configurable Options

ENGINE SYSTEM
- General
  - Engine Block Heater
  - Oil Heater
  - Air Filter Restriction Indicator
  - Stone Guard (Open Set Only)
- Engine Electrical System
  - 10A UL battery charger
  - Battery Warmer

ALTERNATOR SYSTEM
- Alternator Overstring
- Anti-Condensation Heater
- Tropical coating

GENERATOR SET
- Generator Communications Software
  - (English Only)
- Extended Factory Testing (3 Phase Only)
- NRC Seismic Certification
- 8 Position Load Center
- 2 Year Extended Warranty
- 5 Year Warranty
- 5 Year Extended Warranty

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

ENCLOSURE
- Standard Enclosure
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Steel Enclosure
- Aluminum Enclosure
- 150 MPH Wind Kit
- 120 VDC Enclosure Lighting Kit
- 120 VAC Enclosure Lighting Kit
- AC/DC Enclosure Lighting Kit
- Door Alarm Switch

CONTROL SYSTEM
- 21-Light Remote Annunciator
- Remote Relay Panel (8 or 16)
- Oil Temperature Sensor with Indication 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
- Remote Communication - Ethernet
- 10A Run Away
- Ground fault indication and protection functions

Engineered Options

ENGINE SYSTEM
- Coolant heater ball valves
- Fluid containment pans

ALTERNATOR SYSTEM
- 3rd Breaker Systems

GENERATOR SET
- Special Testing

ENCLOSURE
- Motorized Dampers
- Enclosure Ambient Heaters

CONTROL SYSTEM
- Spare inputs (x4) / outputs (x4) - H Panel Only
- Battery Disconnect Switch

Rating Definitions

Standby – Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.
Prime – Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications.

### ENGINE SPECIFICATIONS

#### General
- **Make**: Generac
- **Cylinder #:** 6
- **Type**: In-line
- **Displacement - L (cu ft)**: 123.86 (797.99)
- **Bore - mm (in)**: 135 (5.31)
- **Stroke - mm (in)**: 150 (5.91)
- **Compression Ratio**: 9.7:1
- **Intake Air Method**: Turbocharged/Aftercooler
- **Number of Main Bearings**: 7
- **Connecting Rods**: Carbon Steel
- **Cylinder Head**: Cast Iron GT250, OHV
- **Cylinder Liners**: Ductile Iron
- **Ignition**: Altronix CDI
- **Pistons**: Aluminum
- **Crankshaft**: Ductile Iron
- **Lift Type**: Solid
- **Intake Valve Material**: Special Heat-Resistant Steel
- **Exhaust Valve Material**: Alloy Steel, High Temp
- **Hardened Valve Seats**: Alloy Steel, High Temp

#### Lubrication System
- **Oil Pump Type**: Gear
- **Oil Filter Type**: Full-Flow Cartridge
- **Crankcase Capacity - L (qtis)**: 34.3 (36.2)

#### Cooling System
- **Cooling System Type**: Pressurized Closed Recovery
- **Water Pump's Low - rpm (rpm)**: 94 (356)
- **Fan Type**: Pusher
- **Fan Speed (rpm)**: 2250
- **Fan Diameter mm (in)**: 863 (34)
- **Coolant Heater Wattage**: 2000
- **Coolant Heater Standard Voltage**: 240 V

#### Fuel System
- **Fuel Type**: Natural Gas
- **Carburetor**: Down Draft
- **Secondary Fuel Regulator**: Standard
- **Fuel Shut Off Solenoid**: Standard (Dual)
- **Operating Fuel Pressure (Standard)**: 11" - 15" H2O
- **Operating Fuel Pressure (Optional)**: 7" - 15" H2O

#### Engine Electrical System
- **System Voltage**: 24 VDC
- **Battery Charging Alternator**: Standard
- **Battery Size**: See battery index 01617052Y
- **Battery Voltage**: (2) 12 VDC
- **Ground Polarity**: Negative

### ALTERNATOR SPECIFICATIONS
- **Standard Model**: 520
- **Poles**: 4
- **Field Type**: Revolving
- **Insulation Class - Stator**: H
- **Insulation Class - Rotor**: H
- **Total Harmonic Distortion**: <5%
- **Telephone Interference Factor (TIF)**: < 50
- **Standard Excitation**: Permanent Magnet
- **Bearings**: Sealed Ball
- **Coupling**: Direct, Flexible Disc
- **Prototype Short Circuit Test**: Yes

#### Voltage Regulator Type
- **Type**: Full Digital
- **Number of Sensed Phases**: 3
- **Regulation Accuracy (Steady State)**: +/- 0.25%
POWER RATINGS

<table>
<thead>
<tr>
<th>Operation</th>
<th>Power (KW)</th>
<th>Amps</th>
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<tbody>
<tr>
<td>Natural Gas</td>
<td>300</td>
<td>1041</td>
</tr>
<tr>
<td>Three-Phase 120/208 VAC @0.8pf</td>
<td>300 kW</td>
<td>1041</td>
</tr>
<tr>
<td>Three-Phase 120/240 VAC @0.8pf</td>
<td>300 kW</td>
<td>902</td>
</tr>
<tr>
<td>Three-Phase 277/480 VAC @0.8pf</td>
<td>300 kW</td>
<td>451</td>
</tr>
<tr>
<td>Three-Phase 240/480 VAC @0.6pf</td>
<td>300 kW</td>
<td>381</td>
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STARTING CAPABILITIES (sKVA)

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<thead>
<tr>
<th>Alternator</th>
<th>480 VAC</th>
<th>208/240 VAC</th>
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<tbody>
<tr>
<td>kW</td>
<td>10%</td>
<td>15%</td>
</tr>
<tr>
<td>300</td>
<td>303</td>
<td>454</td>
</tr>
<tr>
<td></td>
<td>605</td>
<td>757</td>
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<tr>
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<td>908</td>
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<td>237</td>
<td>341</td>
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<td>454</td>
<td>568</td>
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<td>681</td>
<td>754</td>
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FUEL CONSUMPTION RATES*

<table>
<thead>
<tr>
<th>Natural Gas – ft³/hr (m³/hr)</th>
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<tbody>
<tr>
<td>Percent Load</td>
</tr>
<tr>
<td>25%</td>
</tr>
<tr>
<td>50%</td>
</tr>
<tr>
<td>75%</td>
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<tr>
<td>100%</td>
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*Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

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<tr>
<th>Air Flow (inlet air system and radiator)</th>
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<tbody>
<tr>
<td>Standby</td>
</tr>
<tr>
<td>ft³/min (m³/min)</td>
</tr>
<tr>
<td>Coolant Flow per Minute</td>
</tr>
<tr>
<td>gpm (lpm)</td>
</tr>
<tr>
<td>Coolant System Capacity</td>
</tr>
<tr>
<td>gal (L)</td>
</tr>
<tr>
<td>Heat Rejection to Coolant</td>
</tr>
<tr>
<td>BTU/hr</td>
</tr>
<tr>
<td>Max. Operating Air Temp on Radiator</td>
</tr>
<tr>
<td>°F (°C)</td>
</tr>
<tr>
<td>Maximum Radiator Backpressure</td>
</tr>
<tr>
<td>in (mm)</td>
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</tbody>
</table>

COMBUSTION AIR REQUIREMENTS

<table>
<thead>
<tr>
<th>Flow at Rated Power cfm (m³/min)</th>
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</thead>
<tbody>
<tr>
<td>Standby</td>
</tr>
<tr>
<td>603 (17)</td>
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</table>

ENGINE

<table>
<thead>
<tr>
<th>Rated Engine Speed</th>
<th>rpm</th>
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<tbody>
<tr>
<td>2150</td>
<td></td>
</tr>
<tr>
<td>Engine Horsepower**</td>
<td>hp</td>
</tr>
<tr>
<td>477</td>
<td></td>
</tr>
<tr>
<td>Piston Speed</td>
<td>ft/min (m/min)</td>
</tr>
<tr>
<td>2116 (645)</td>
<td></td>
</tr>
<tr>
<td>EMEP</td>
<td>psf</td>
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<tr>
<td>269</td>
<td></td>
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</table>

EXHAUST

<table>
<thead>
<tr>
<th>Exhaust Flow (Rated Output)</th>
<th>cfm (m³/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standby</td>
<td>2076 (59)</td>
</tr>
<tr>
<td>Maximum Recommended Back Pressure</td>
<td>in (mm)</td>
</tr>
<tr>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>Exhaust Temp (Rated Output)</td>
<td>°F (°C)</td>
</tr>
<tr>
<td>1250 (732)</td>
<td></td>
</tr>
<tr>
<td>Exhaust Outlet Size (Open)</td>
<td>in</td>
</tr>
<tr>
<td>0.3/1.0 (1.0/25.4)</td>
<td></td>
</tr>
</tbody>
</table>

** Note: "Engine Horsepower" is maximum hp for EPA and SAE engine purposes.

Dirtion — Operational characteristics consider maximum ambient conditions. Certain factors may apply under specific site conditions. Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, BS5523 and EN6271 standards.
**SG300 300 kW**

**dimensions, weights, and sound levels**

**OPEN SET (Includes Exhaust Flex)**

<table>
<thead>
<tr>
<th>L x W x H in (mm)</th>
<th>128.74 (3261.4) x 57.6 (1463.1) x 68.04 (1728.5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight lbs (kg)</td>
<td>6612 (2988)</td>
</tr>
<tr>
<td>Sound Level (dBA*)</td>
<td>90</td>
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</tbody>
</table>

**STANDARD ENCLOSURE**

<table>
<thead>
<tr>
<th>L x W x H in (mm)</th>
<th>174.7 (4437.4) x 52.86 (1346.7) x 77.8 (1975.1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight lbs (kg)</td>
<td>Steel: 7786 (3531)</td>
</tr>
<tr>
<td>Sound Level (dBA*)</td>
<td>88</td>
</tr>
</tbody>
</table>

**LEVEL 1 ACOUSTIC ENCLOSURE**

<table>
<thead>
<tr>
<th>L x W x H in (mm)</th>
<th>202.19 (5064.7) x 57.49 (1460.4) x 77.20 (1976.1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight lbs (kg)</td>
<td>Steel: 8342 (3783)</td>
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<td>Sound Level (dBA*)</td>
<td>91</td>
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**LEVEL 2 ACOUSTIC ENCLOSURE**

<table>
<thead>
<tr>
<th>L x W x H in (mm)</th>
<th>180.65 (4588.4) x 57.46 (1460.4) x 107.3 (2725.4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight lbs (kg)</td>
<td>Steel: 8904 (4038)</td>
</tr>
<tr>
<td>Sound Level (dBA*)</td>
<td>96</td>
</tr>
</tbody>
</table>

*All measurements are approximate and for estimation purposes only. Sound levels measured at 23 ft (7 m) and does not account for ambient site conditions.*

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**YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER**

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

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Certification Data for Exhaust
Emissions Data for SG300
## Exhaust Emissions Data

**Statement of Exhaust Emissions**

**2015 Spark-Ignited Generators**

**Industrial Series - Non-SCAQMD**

<table>
<thead>
<tr>
<th>Model</th>
<th>Engine</th>
<th>EPA/Innopac Family</th>
<th>Fuel</th>
<th>Cat. Req'd</th>
<th>Conversion Cat or Equivalent Cat</th>
<th>EPA Cont.</th>
<th>Grams/million Btu</th>
<th>Rated RPM</th>
<th>BHP</th>
<th>Fuel Flow (lb/hr)</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>THO</td>
<td>NOx</td>
<td>CO</td>
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**NOTICE:**

- Never adjust speed beyond the Best Horsepower (BHP) indicated.
- Refer to page 2 for additional data and safety notes.

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**Certification Data**

Generac Power Systems, Inc. | S48 W2650 HWY. 59, Waukesha, WI 53189 | generac.com
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EXHAUST EMISSIONS DATA

STATEMENT OF EXHAUST EMISSIONS 2015 SPARK-IGNITED GENERATORS

2015 EPA SPARK-IGNITED EXHAUST EMISSIONS DATA

Effective since 2009, the EPA has implemented exhaust emissions regulations on stationary spark-ignited (gasoline) engine generators for emergency applications. All Generac spark-ignited generators, including SG, MG, QTA and QT series generators, that are built with engines manufactured in 2000 and later meet the requirements of 40 CFR part 68 subpart JJJ and are EPA certified. These generator sets are labeled as EPA Certified with decals affixed to the engines’ valve covers.

The attached documents summarize the general information relevant to EPA certification on these generator sets. This information can be used for submittal data and for permitting purposes, if required. These documents include the following information:

EPA Engine Family
The EPA Engine Family is assigned by the manufacturer under EPA guidelines for certification purposes and appears on the EPA certificate.

Catalyst Required
Indicates whether an exhaust catalyst and Air/Fuel Ratio control system are required on the generator set to meet EPA certification requirements. Generally, units rated 60kW and smaller do not require a catalyst to meet EPA certification requirements. Please note that some units that do not require a catalyst to meet EPA requirements do need a catalyst if the California SCAQMD option is selected. Please see “California SCAQMD” below for additional information on this option.

Combustion Catalyst or Separate Catalyst
SG and MG series generator sets typically utilize a single combination catalyst/catalyst as part of meeting EPA certification requirements. Many QT and QTA series generator sets use the same engines as SG and MG series units, but have different exhaust configurations that require the use of conventional silencers with additional separate catalysts installed.

EPA Certificate Number
Upon certification by the EPA, its Certificate Number is assigned by the EPA.

Emissions Actuals - Grams/hr-hr
Actual exhaust emission data for Total Hydrocarbons (THC), Nitrogen Oxides (NOx), and Carbon Monoxide (CO) that were submitted to EPA and are official data of record for certification. This data can be used for permitting if necessary. Values are expressed in grams per brake horsepower-hour, to convert to grams/kW-hr, multiply by 1.341. Please see advisory notes below for further information.

California Units, SCAQMD CEP Number
A separate low-emissions option is available on many Generac gasoline-powered generator sets to comply with the more stringent South Coast Air Quality Management District requirements that are recognized in certain areas in California. Generators that include this option are also EPA Certified.

General Advisory Notes to Dealers
This information provided here is proprietary to Generac and its authorized dealers and is not intended for public viewing. This information is intended for compliance or sales purposes and may not be used as such, nor may it be reproduced without the expressed written permission of Generac Power Systems, Inc.

Advisory Notes on Emissions Actuals
- The stated values are actual exhaust emission test measurements obtained from units representative of the generator types and engines described.
- Values are official data of record as submitted to the EPA and SCAQMD for certification purposes. Testing was conducted in accordance with prevailing EPA protocols, which are typically accepted by SCAQMD and other regional authorities.
- No emission values provided are to be construed as guarantees of emissions levels for any given Generac generator unit.
- Generac Power Systems reserves the right to revise this information without prior notice.
- Consult state and local regulatory agencies for specific permitting requirements.
- The emissions performance data supplied by the equipment manufacturer is only one element required toward completion of the permitting and installation process. State and local regulations may vary on a case-by-case basis and must be consulted by the permit applicant/equipment owner prior to equipment purchase or installation. The data supplied herein by Generac Power Systems cannot be construed as a guarantee of installability of the generator set.
- The emission values provided are the result of multi-mode, weighted scale testing in accordance with EPA testing regulations, and may not be representative of any specific load point.
- The emission values provided are not to be construed as emission limits.
2015 Model Year Certificate of Conformity with the Clean Air Act for SG300