Standby Power Rating 35 kW, 44 kVA, 60 Hz

Prime Power Rating* 32 kW, 39 kVA, 60 Hz





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



Image used for illustration purposes only

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



IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

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 singlesource 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.

SPEC SHEET

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

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

Fuel System

- Fuel Line NPT Connection
- · 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

- GENprotect[™]
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Permanent Magnet Excitation
- Sealed Bearing
- · Amortisseur Winding
- · Full Load Capacity Alternator

GENERATOR SET

GENERAC

- Internal Genset Vibration Isolation
- · Separation of Circuits High/Low Voltage

INDUSTRIAL

- · Separation of Circuits Multiple Breakers
- Wrapped Exhaust Piping
- · 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)

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- O Engine Coolant Heater
- Oil Heater
- O Air Filter Restriction Indicator
- Stone Guard (Open Set Only)
- O Fan and Belt Guards

ELECTRICAL SYSTEM

- O 10A UL Battery Charger
- O Battery Warmer

ALTERNATOR SYSTEM

- O Alternator Upsizing
- O Anti-Condensation Heater
- Tropical Coating

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- O 2nd Main Line Circuit Breaker
- O Shunt Trip and Auxiliary Contact
- O Electronic Trip Breakers

GENERATOR SET

- O Demand Response Rating
- O GenLink® Communications Software (English Only)
- Extended Factory Testing (3-Phase Only)
- O 8 Position Load Center
- O Vapor Recovery Heater

ENCLOSURE

- O Standard Enclosure
- O Level 1 Sound Attenuation
- O Level 2 Sound Attenuation
- O Level 2 Sound Attenuation with Motorized Dampers
- O Steel Enclosure
- O Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- O Enclosure Ambient Heaters
- O Door Alarm Switch

CONTROL SYSTEM

GENERAC

O NFPA 110 Compliant 21-Light Remote Annunciator

INDUSTRIAL

- O Remote Relay Assembly (8 or 16)
- Oil Temperature Sender with Alarm
- O Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Flush Mount)
- O Remote Communication Modem
- O 10A Run Relay
- O Ground Fault Indication and Protection Functions
- O 120V GFCI and 240V Outlet
- O 100 dB Alarm Horn

WARRANTY (Standby Gensets Only)

- 2 Year Extended Limited Warranty
- 5 Year Limited Warranty
- 5 Year Extended Limited Warranty
- O 7 Year Extended Limited Warranty
- O 10 Year Extended Limited Warranty

ENGINEERED OPTIONS

ENGINE SYSTEM

- O Coolant Heater Ball Valves
- O Fluid Containment Pan

ALTERNATOR SYSTEM

O 3rd Breaker System

CONTROL SYSTEM

- O Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

GENERATOR SET

- Special Testing
- O Battery Box

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

136	ınد	Δr	ʻal

Make	Generac	
Cylinder #	8	
Туре	V	
Displacement - in ³ (L)	329.53 (5.4)	
Bore - in (mm)	3.55 (90.17)	
Stroke - in (mm)	4.17 (105.992)	
Compression Ratio	9.0:1	
Intake Air Method	Naturally Aspirated	
Number of Main Bearings	4	
Connecting Rods	Forged Steel	
Cylinder Head	Aluminum	
Cylinder Liners	No	
Ignition	Single Fire	
Piston Type	Aluminum Alloy	
Crankshaft Type	Nodular Iron	
Lifter Type	Hydraulic	
Intake Valve Material	Steel Alloy	
Exhaust Valve Material	Hardened Steel	
Hardened Valve Seats	Yes	

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow Spin-On Cartridge
Crankcase Capacity - qt (L)	6 (5.7)

Cooling System

Cooling System Type	Pressurized Closed Recovery
Fan Type	Pusher
Fan Speed - rpm	2,143
Fan Diameter - in (mm)	20 (508)

Fuel System

Fuel Type	Natural Gas, Propane Vapor
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure - in H ₂ O (kPa)	8 - 14 (2.0 - 3.5)

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	Generac 390 mm
Poles	4
Field Type	Revolving
Insulation Class - Rotor	Н
Insulation Class - Stator	Н
Total Harmonic Distortion	<5% (3-Phase)
Telephone Interference Factor (TIF)	<50

Standard Excitation	Synchronous Brushless
Bearings	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%

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency





POWER RATINGS - NATURAL GAS/PROPANE VAPOR

	St	andby
Single-Phase 120/240 VAC @1.0pf	35 kW/35 kVA	Amps: 146
Three-Phase 120/208 VAC @0.8pf	35 kW/44 kVA	Amps: 121
Three-Phase 120/240 VAC @0.8pf	35 kW/44 kVA	Amps: 105
Three-Phase 277/480 VAC @0.8pf	35 kW/44 kVA	Amps: 53
Three-Phase 346/600 VAC @0.8pf	35 kW/44 kVA	Amps: 42

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

277/480 VAC								208	/240 VAC						
Alternator	kW	10%	15%	20%	25%	30%	35%	Alternator	kW	10%	15%	20%	25%	30%	35%
Standard	35	24	36	48	60	72	84	Standard	35	18	27	36	45	54	63
Upsize 1	40	27	41	54	68	81	95	Upsize 1	40	20	31	41	51	61	71
Upsize 2	50	34	52	69	86	103	120	Upsize 2	50	26	39	52	65	77	90
Upsize 3	60	42	63	83	104	125	146	Upsize 3	60	32	47	62	78	94	110

FUEL CONSUMPTION RATES*

Natural Gas – ft³/hr (m³/hr)

Propane Vapor - ft3/hr (m3/hr)

INDUSTRIAL

Percent Load	Standby	Percent Load	Standby
25%	239 (6.8)	25%	79.7 (2.3)
50%	409 (11.6)	50%	136.6 (3.9)
75%	553 (15.7)	75%	184.4 (5.2)
100%	682 (19.3)	100%	227.7 (6.4)

^{*} Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Air Flow (Inlet Air Combustion and Radiator)	ft ³ /min (m ³ /min)	2,460 (69.7)
Coolant Flow	gpm (lpm)	38 (144)
Coolant System Capacity	gal (L)	3 (11.36)
Heat Rejection to Coolant	BTU/hr (kW)	144,000 (42.2)
Max. Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin	No. 0199270SSD
Maximum Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

Standby

Flow at Rated Power cfm (m³/min)

87 (2.5)

ENGINE			EXHAUST	
		Standby		Standby
Rated Engine Speed	rpm	1,800	Exhaust Flow (Rated Output) cfm (m³/min)	260 (7.4)
Horsepower at Rated kW**	hp	54	Maximum Exhaust Backpressure inHg (kPa)	1.5 (5.1)
Piston Speed	ft/min (m/min)	1,251 (381.3)	Exhaust Temp (Rated Output - Post Silencer) °F (°C)	900 (482)
BMEP	psi (kPa)	72 (496)		

^{**} Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

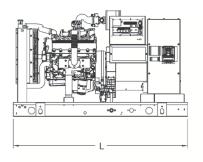
Deration - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

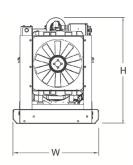
INDUSTRIAL SPARK-IGNITED GENERATOR SET

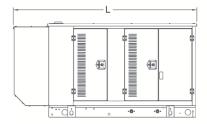
EPA Certified Stationary Emergency

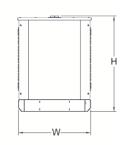
DIMENSIONS AND WEIGHTS*

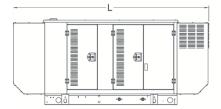


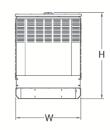


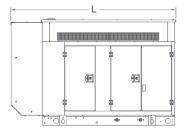


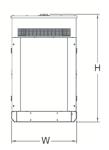












OPEN SET (Includes Exhaust Flex)

L x W x H - in (mm)	76.0 (1,930.0) x 37.4 (950.0) x 46.3 (1,176.0)
Weight - Ibs (kg)	2,199 (997)

STANDARD ENCLOSURE

L x W x H - in (mm)	94.8 (2,408.9) x 38.0 (965.1) x 49.5 (1,258.1)
Weight - Ibs (kg)	Steel: 2,639 (1,197) Aluminum: 2,417 (1,096)

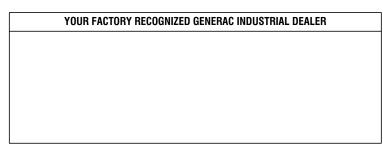
LEVEL 1 ACOUSTIC ENCLOSURE

L x W x H - in (mm)	112.5 (2,857.1) x 38.0 (965.1) x 49.5 (1,258.1)
Weight - Ibs (kg)	Steel: 2,719 (1,233) Aluminum: 2,451 (1,112)

LEVEL 2 ACOUSTIC ENCLOSURE

L x W x H - in (mm)	94.8 (2,470.0) x 38.0 (965.1) x 69.1 (1,755.0)
Weight - lbs (kg)	Steel: 2,871 (1,302) Aluminum: 2,517 (1,142)

* All measurements are approximate and for estimation purposes only.



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