EPA Certified Stationary Emergency and Non-Emergency

Standby Power Rating

230 kW, 288 kVA, 60 Hz

Demand Response Rating

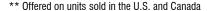
230 kW, 288 kVA, 60 Hz

Prime Power Rating

207 kW, 259 kVA, 60 Hz







DEMAND RESPONSE READY



Image used for illustration purposes only

Codes and Standards

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





UL2200, UL6200, UL1236, UL489



CSA C22.2



BS5514 and DIN 6271



SAE J1349



NFPA 37, 70, 99, 110



NEC700, 701, 702, 708



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 provides 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 they can be found 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 LPfueled engines to generators requires advanced engineering expertise for 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 owners 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 more options in commercial and industrial generator applications as well as extended run time from utility-supplied natural gas.

GENERAC* INDUSTRIAL POWER

STANDARD FEATURES

DEMAND RESPONSE READY

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 Silencer (Enclosed Units 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

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

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)

ALTERNATOR SYSTEM

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

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
- · 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
- Arc Flash Maintenance Mode (When Correctly Equipped)

Alarms and Warnings

- 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 (1²T 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

EPA Certified Stationary Emergency and Non-Emergency

CONFIGURABLE OPTIONS



DEMAND RESPONSE READY

ENGINE SYSTEM

- o Engine Coolant Heater
- o Baseframe Cover/Rodent Guard
- o 2 Stage Air Cleaner
- o Oil Heater
- o Air Filter Restriction Indicator
- o Radiator Stone Guard (Open Set Only)
- o Level 1 Fan and Belt Guards (Enclosed Units Only)

FUEL SYSTEM

o NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- o 10A UL Listed Battery Charger
- o Battery Warmer

ALTERNATOR SYSTEM

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

CIRCUIT BREAKER OPTIONS

- o Main Line Circuit Breaker
- o 2nd Main Line Circuit Breaker
- o 3rd Main Line Circuit Breaker
- o Shunt Trip and Auxiliary Contact
- o Electronic Trip Breakers

GENERATOR SET

- o Demand Response Rating
- o Extended Factory Testing (3-Phase Only)
- o 12 Position Load Center
- Vapor Recovery Heater

ENCLOSURE

- Weather Protected Enclosure
- Level 1 Sound Attenuated
- o Level 2 Sound Attenuated
- Level 2 Sound Attenuated with Motorized Dampers
- o Level 3 Sound Attenuated (Steel Only)
- o Steel Enclosure
- o Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- o AC/DC Enclosure Lighting Kit
- o Enclosure Heaters (with Motorized Dampers Only)
- o Door Open Alarm Switch

CONTROL SYSTEM

- NFPA 110 Level 1 Compliant 21-Light Remote Annunciator
- o Remote Relay Assembly (8 or 16)
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- o 10A Engine Run Relay
- Ground Fault Annunciator
- o 100 dB Alarm Horn
- o 120V GFCI and 240V Outlets
- Damper Alarm Contacts (with Motorized Dampers Only)

WARRANTY (Standby Gensets Only)

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

ENGINEERED OPTIONS

ENGINE SYSTEM

o Fluid Containment Pans

CONTROL SYSTEM

o Battery Disconnect Switch

GENERATOR SET

- Special Testing
- o Battery Box

CIRCUIT BREAKER OPTIONS

4th Main Line Circuit Breaker

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APPLICATION AND ENGINEERING DATA

DEMAND RESPONSE READY

ENGINE SPECIFICATIONS

General

Make	Generac
Cylinder #	6
Туре	In-line
Displacement - in ³ (L)	864.71 (14.2)
Bore: in (mm)	5.31 (135)
Stroke: in (mm)	6.50 (165)
Compression Ratio	9.5:1
Intake Air Method	Turbocharged/Aftercooled
Number of Main Bearings	7
Connecting Rods	Steel Alloy
Cylinder Head	Cast Iron
Cylinder Liners	Ductile Iron
Ignition	Electronic
Piston Type	Aluminum
Crankshaft Type	Ductile Iron
Lifter Type	Solid
Intake Valve Material	Special Heat-Resistant Steel
Exhaust Valve Material	High Temperature Steel Alloy
Hardened Valve Seats	High Temperature Steel Alloy

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow Cartridge
Engine Oil Capacity: gt (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)	30 (762)

Fuel System

Fuel Type	Natural Gas
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Proceure in HaC (kDa)	7 11 (1 7 9 7)

*When designing the external fuel system, assume a 20% safety factor to the upper and lower limit of the specified fuel pressure range to account for site variation and measurement at the generator test port. Refer to Generac document 10000046207, latest rev. for proper gas supply design guidelines. (Contact Factory for Details)

Engine Electrical System

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

ALTERNATOR SPECIFICATIONS

Standard Model	K0250124Y21
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	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%

EPA Certified Stationary Emergency and Non-Emergency

OPERATING DATA

DEMAND RESPONSE READY

POWER RATINGS - NATURAL GAS

	Standby/Demand I	Response	Prime)
Three-Phase 120/208 VAC @0.8pf	230 kW/288 kVA	Amps: 799	207 kW/259 kVA	Amps: 719
Three-Phase 120/240 VAC @0.8pf	230 kW/288 kVA	Amps: 692	207 kW/259 kVA	Amps: 623
Three-Phase 277/480 VAC @0.8pf	230 kW/288 kVA	Amps: 346	207 kW/259 kVA	Amps: 312
Three-Phase 346/600 VAC @0.8pf	230 kW/288 kVA	Amps: 277	207 kW/259 kVA	Amps: 249

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip				
277/480 VAC	30%	208/240 VAC	30%	
K0250124Y21	630	K0250124Y21	506	
K0300124Y21	790	K0300124Y21	609	

FUEL CONSUMPTION RATES*

Natural Gas – scfh (m³/hr)

Percent Load	Standby/Demand Response	Prime
25%	990 (28.0)	960 (27.2)
50%	1,560 (44.2)	1,440 (40.8)
75%	2,400 (68.0)	1,980 (56.1)
100%	3,000 (84.9)	2,640 (69.7)

^{*1.5}X maximum site rated fuel consumption should be used for gas supply design practices. Refer to Generac 10000046207, latest rev., for more information or contact factory for details.

COOLING

		Standby/Demand Response	Prime
Air Flow (Fan Air Flow Across Radiator)	cfm (m³/min)	10,078 (285.4)	10,078 (285.4)
Coolant Flow	gpm (Lpm)	90 (340.7)	90 (340.7)
Coolant System Capacity	gal (L)	15 (54.9)	15 (54.9)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)		See Bulletin No. 0199270SSD	See Bulletin No. 0199270SSD
Maximum Additional Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby/Demand Response	Prime
Flow at rated power cfm - (m³/min)	480 (13.6)	438 (12.4)

ENGINE

EXHAUST

		Standby/Demand Response	Prime
Rated Engine Speed	RPM	1,800	1,800
Horsepower at Rated kW**	hp	344	310
Piston Speed	ft/min (m/min)	1,950 (594)	1,950 (594)
BMEP	psi (kPa)	175 (1,205)	157 (1,085)

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

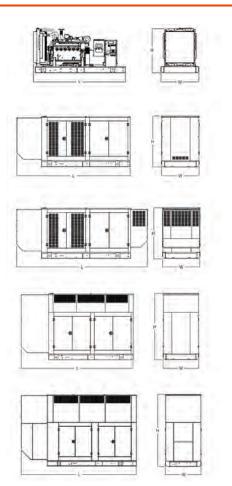
		Standby/Demand Response	Prime
Exhaust Flow (Rated Output)	cfm (m³/min)	1,600 (45)	1,442 (41)
Max. Backpressure (Post Silencer)	inHg (kPa)	0.75 (2.54)	0.75 (2.54)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	1,340 (727)	1,318 (714)

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 BS5514 and DIN6271 standards. Standby - See Bulletin 0187500SSB • Demand Response - See Bulletin 10000018250 • Prime - See Bulletin 0187510SSB

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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 - Ibs (kg) 5.883 - 6.031 (2.668 - 2.735)

WEATHER PROTECTED ENCLOSURE

174.7 (4,437) x 57.5 (1,461) x 77.8 (1,976) L x W x H - in (mm)

Weight - lbs (kg)

Steel: 7,448 - 7,596 (3,378 - 3,445) Aluminum: 6,654 - 6,801 (3,018 - 3,084)

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 - Ibs (kg)

Steel 7,911 - 8,059 (3,588 - 3,655) Aluminum: 6,853 - 7,000 (3,108 - 3,175)

LEVEL 2 SOUND ATTENUATED ENCLOSURE

180.6 (4,587) x 57.5 (1,461) x 111.3 (2,827) L x W x H - in (mm)

Steel: 8,484 - 8,632 (3,848 - 3,915) Aluminum: 7,099 - 7,247 (3,220 - 3,287) Weight - Ibs (kg)

LEVEL 3 SOUND ATTENUATED ENCLOSURE

207.3 (5,265) x 63.7 (1,618) x 128.9 (3,274) L x W x H - in (mm) Weight - Ibs (kg) 10,840 - 10,990 (4,916 - 4,984)

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER	

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings

SPEC SHEET