INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC INDUSTRIAL

Standby Power Rating 150 kW, 188 kVA, 60 Hz

Prime Power Rating* 135 kW, 169 kVA, 60 Hz



Image used for illustration purposes only

Codes and Standards

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

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



UL2200, UL6200, UL1236, UL489, UL142

CSA C22.2, ULC S601



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

For over 60 years, Generac has provided 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 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 applications under adverse conditions.

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

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STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Heavy Duty Air Cleaner
- Level 1 Fan and Belt Guards (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Engine Coolant Heater
- Critical Silencer

FUEL SYSTEM

- Fuel Lockoff Solenoid
- Primary Fuel Filter

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

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
- ٠ All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- ٠ 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

ALTERNATOR SYSTEM

- UL2200 GENprotect[™]
- 12 Leads (3-Phase, Non 600V)
- **Class H Insulation Material**
- Vented Rotor
- 2/3 Pitch •
- Skewed Stator
- Auxiliary Voltage Regulator Power Winding
- Permanent Magnet Excitation
- Sealed Bearing
- Automated Manufacturing (Winding, Insertion, Lacing, Varnishing)
- Rotor Dynamically Spin Balanced
- Amortisseur Winding
- Full Load Capacity Alternator
- Protective Thermal Switch

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 Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Units Only)
- E-Stop (Red Mushroom-Type) •
- NFPA110 Level I and II (Programmable) Customizable Alarms, Warnings, and Events
- Modbus[®] Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- ٠ 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

ENCLOSURE (If Selected)

Rust-Proof Fasteners with Nylon Washers to Protect Finish

INDUSTRIAL

- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors

UL 142/ULC S601

Double Wall

Sloped Top

Fuel Level

Sloped Bottom

Rupture Basin Alarm

Stainless Steel Hardware

Alarms and Warnings

Coolant Temperature

Engine Overspeed

Alarms and Warnings

Battery Voltage

Oil Pressure

Coolant Level

Vents •

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GENERAC

- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles

Factory Pressure Tested - 2 psi

Check Valve In Supply and Return Lines

RhinoCoat[™] - Textured Polyester Powder Coat Paint

Alarms and Warnings Time and Date Stamped

Snap Shots of Key Operation Parameters During

Alarms and Warnings Spelled Out (No Alarm Codes)

SPEC SHEET

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FUEL TANKS (If Selected)

RhinoCoat[™] - Textured Polyester Powder Coat Paint

INDUSTRIAL DIESEL GENERATOR SET

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CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil Heater
- Level 1 Fan and Belt Guards (Enclosed Units Only)
- O Air Filter Restriction Indicator
- Radiator Stone Guard (Open Set Only)
- Critical Silencer (Open Set Only)

ELECTRICAL SYSTEM

- 10A UL Listed Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- $\,\circ\,\,$ Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

GENERATOR SET

- IBC Seismic Certification
- 8 Position Load Center
- Vibration Isolators (Pad or Spring)

ENCLOSURE

- Weather Protected Enclosure
- Level 1 Sound Attenuated
- Level 2 Sound Attenuated
- $\circ~$ Level 2 Sound Attenuated with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Enclosure Heater (with Motorized Dampers Only)
- Door Open Alarm Horn

FUEL TANKS (Size On Last Page)

- 8 in (203.2 mm) Fill Extension
- 13 in (330.2 mm) Fill Extension
- Overfill Protection Valve
- Return Hose
- Tank Risers
- 90% Fuel Level Switch
- 12' Above Grade Vent Extension
- Stainless Steel Fire Rated Fuel Hose

ENGINE SYSTEM

Coolant Heater Ball Valves

ENGINEERED OPTIONS

Fluid Containment Pan

CONTROL SYSTEM

- Spare Inputs/Outputs
- O Battery Disconnect Switch

ALTERNATOR SYSTEM
3rd Breaker System

GENERATOR SET

Special Testing

CONTROL SYSTEM

- O NFPA 110 Compliant 21-Light Remote Annunciator
- 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)
- 100 dB Alarm Horn
- Ground Fault Annunciator
- 120V GFCI and 240V Outlets
- Damper Alarm Contacts (with Motorized Dampers Only)
- $\circ~$ Remote Communication Modem
- 10A Engine Run Relay
- $\,\circ\,\,$ Oil Temperature Indication and Alarm

WARRANTY

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

FUEL TANKS

- UL2085 Tank
- O Stainless Steel Tank

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INDUSTRIAL DIESEL G	ENERATOR SET
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APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	lveco/FPT
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	6
Туре	In-Line
Displacement - in ³ (L)	408.86 (6.7)
Bore - in (mm)	4.09 (104)
Stroke - in (mm)	5.2 (128)
Compression Ratio	16.5:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head Type	4-Valve
Piston Type	Aluminum Alloy
Crankshaft Type	Forged Steel
Engine Governing	
Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.25%
Lubrication System	
Oil Pump Type	Gear
Oil Filter Type	Full-Flow Cartridge
Crankcase Capacity - qt (L)	20.7 (19.6)

Cooling System

Cooling System Type	Closed
Water Pump Type	Belt Driven Centrifugal
Fan Type	Pusher
Fan Speed - RPM	2,538
Fan Diameter - in (mm)	26 (660)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications	ASTM
Fuel Filtering (Microns)	5
Fuel Pump Type	Engine Driven Gear
Injector Type	Electronic
Fuel Supply Line - in (mm)	0.5 (12.7) NPT
Fuel Return Line - in (mm)	0.5 (12.7) NPT

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	K0150124Y21	Star
Poles	4	Bea
Field Type	Revolving	Cou
Insulation Class - Rotor	Н	Prot
Insulation Class - Stator	Н	Volt
Total Harmonic Distortion	<5%	Nun
Telephone Interference Factor (TIF)	< 50	Reg

Standard Excitation	Permanent Magnet
Bearings	Single Sealed Cartridge
Coupling	Direct via Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%



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OPERATING DATA

POWER RATINGS - DIESEL

	Standby		
Single-Phase 120/240 VAC @1.0pf	150 kW	Amps: 625	
Three-Phase 120/208 VAC @0.8pf	150 kW	Amps: 520	
Three-Phase 120/240 VAC @0.8pf	150 kW	Amps: 451	
Three-Phase 277/480 VAC @0.8pf	150 kW	Amps: 226	
Three-Phase 346/600 VAC @0.8pf	150 kW	Amps: 180	

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip						
	120/240 VAC 1Ø	30%	277/480 VAC 3Ø	30%	208/240 VAC 3Ø	30%
	A0150044N21	260	K0150124Y21	326	K0150124Y21	244
	A0200044N21	459	K0200124Y21	478	K0200124Y21	361
			K0250124Y21	630	K0250124Y21	506

FUEL CONSUMPTION RATES*

	Diesel - gph (Lph)		
Fuel Pump Lift - ft (m)	Percent Load	Standby	
3 (1)	25%	3.3 (12.5)	
	50%	6.2 (23.5)	
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	75%	8.8 (33.5)	
29 (110.2)	100%	11.2 (42.2)	
	* Fuel supply installation must accor		

fuel consumption rates at 100% load.

COOLING

		Standby
Coolant Flow	gpm (Lpm)	44.6 (168.8)
Coolant System Capacity	gal (L)	7.5 (28.4)
Heat Rejection to Coolant	BTU/hr (kW)	412,900 (121)
Inlet Air	scfm (m³/hr)	7,946 (13,502)
Maximum Operating Radiator Air Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)		See Bulletin No. 0199280SSD
Maximum Additional Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

		Flow at Rated Power - c	fm (m ³ /min) 440 (12.5)		
ENGINE			EXHAUST		
		Standby			Standby
Rated Engine Speed	RPM	1,800	Exhaust Flow (Rated Output)	cfm (m ³ /min)	1,050 (29.7)
Horsepower at Rated kW**	hp	240	Maximum Allowable Backpressure	inHg (kPa)	1.5 (5.1)
Piston Speed	ft/min (m/min)	1,559 (475)	Exhaust Temperature (Rated Output)	°F (°C)	895 (479)
BMEP	psi (kPa)	257 (1,772)			

** 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 Prime - See Bulletin 0187510SSB

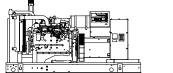


Standby

INDUSTRIAL DIESEL GENERATOR SET

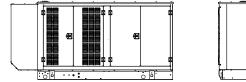
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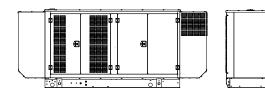
DIMENSIONS AND WEIGHTS*

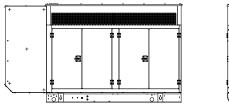




OPEN SET







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Run Time - Hours	Tank Capacity	L x W x H - in (mm)	Weight - Ibs (kg)	
No Tank	Gal (L)	117.9 (2,996) x 49.7 (1,262) x 57.2 (1,453)	3,333 - 3,920 (1,512 - 1,778)	
11	134 (507)	117.9 (2,996) x 49.7 (1,262) x 70.2 (1,783)	4,117 - 4,704 (1,868 - 2,134)	
28	322 (1,219)	117.9 (2,996) x 49.7 (1,262) x 82.2 (2,088)	4,405 - 4,992 (1,998 - 2,264)	
45	510 (1,931)	117.9 (2,996) x 49.7 (1,262) x 94.2 (2,393)	4,698 - 5,285 (2,133- 2,399)	
39	440 (1,666)	156.7 (3,980) x 49.7 (1,262) x 81.2 (2,063)	4,776 - 5,363 (2,051 - 2,317)	
61	693 (2,623)	136.0 (3,455) x 53.0 (1,346) x 97.7 (2,482)	4,928 - 5,515 (2,237 - 2,503)	
62	705 (2,669)	156.7 (3,980) x 49.7 (1,262) x 93.2 (2,367)	5,199 - 5,786 (2,208 - 2,474)	
84	946 (3,581)	208.3 (5,291) x 53.0 (1,346) x 98.2 (2,493)	6,358 - 6,945 (2,884 - 3,150)	
118	1,325 (5,016)	277.8 (7,055) x 53.0 (1,346) x 96.6 (2,453)	7,373 -7,960 (3,345 - 3,611)	
NEATH	ER PROTEC	TED ENCLOSURE		
Run Time - Hours	Tank Capacity	L x W x H - in (mm)	Weight - Ibs (kg) Enclosure Only	
No Tank	Gal (L)	143.0 (3,634) x 50.4 (1,280) x 68.2 (1,732)	Steel: 898 (407) Aluminum: 439 (199)	
11	134 (507)	143.0 (3,634) x 50.4 (1,280) x 81.2 (2,062)		
28	322 (1,219)	143.0 (3,634) x 50.4 (1,280) x 93.2 (2,367)		
45	510 (1,931)	143.0 (3,634) x 50.4 (1,280) x 105.2 (2,672)		
39	440 (1,666)	156.7 (3,980) x 50.4 (1,280) x 92.2 (2,342)		
61	693 (2,623)	143.0 (3,634) x 53.0 (1,346) x 108.7 (2,761)		
62	705 (2,669)	156.7 (3,980) x 50.4 (1,280) x 104.2 (2,646)		
84	946 (3,581)	208.3 (5,291) x 53.0 (1,346) x 109.2 (2,772)		
118	1,325 (5,016)	277.8 (7,055) x 53.0 (1,346) x 107.6 (2,732)		
LEVEL 1	SOUND AT	TENUATED ENCLOSURE		
Run Time - Hours	Tank Capacity	L x W x H - in (mm)	Weight - Ibs (kg) Enclosure Only	
No Tank	Gal (L)	168.5 (4,279) x 50.4 (1,280) x 68.2 (1,732)		
11	134 (507)	168.5 (4,279) x 50.4 (1,280) x 81.2 (2,062)		
28	322 (1,219)	168.5 (4,279) x 50.4 (1,280) x 93.2 (2,367)		
45	510 (1,931)	168.5 (4,279) x 50.4 (1,280) x 105.2 (2,672)		
39	440 (1,666)	168.5 (4,279) x 50.4 (1,280) x 92.2 (2,342)	Steel: 1,186 (537) Aluminum: 563 (255)	
61	693 (2,623)	168.5 (4,279) x 53.0 (1,346) x 108.7 (2,761)		
62	705 (2,669)	168.5 (4,279) x 50.4 (1,280) x 104.2 (2,646)		
84	946 (3,581)	208.3 (5,291) x 53.0 (1,346) x 109.2 (2,772)		
118	1,325 (5,016)			
-		TENUATED ENCLOSURE		
Run Time - Hours	Tank Capacity	L x W x H - in (mm)	Weight - Ibs (kg) Enclosure Only	
No Tank	Gal (L)	143.0 (3,633) x 50.4 (1,280) x 91.7 (2,330)		
11	134 (507)	143.0 (3,633) x 50.4 (1,280) x 104.7 (2,660)		
28	322 (1,219)	143.0 (3,633) x 50.4 (1,280) x 116.7 (2,965)		
45	510 (1,931)	143.0 (3,633) x 50.4 (1,280) x 128.7 (3,270)		
39	440 (1,666)	156.7 (3,980) x 50.4 (1,280) x 115.7 (2,940)	Steel: 1,377 (624) Aluminum: 645 (292)	
61	693 (2,623)	143.0 (3,633) x 53.0 (1,346) x 132.2 (3,359)		
62		156.7 (3,980) x 50.4 (1,280) x 127.7 (3,244)		
	705 (2,669)	208.3 (5,291) x 53.0 (1,346) x 132.7 (3,370)		
110	946 (3,581)			
118	1,325 (5,016)	277.8 (7,055) x 53.0 (1,346) x 131.1 (3,330)		

* 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.

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