Standby Power Rating 275 kW, 344 kVA, 60 Hz

Prime Power Rating* 248 kW, 309 kVA, 60 Hz







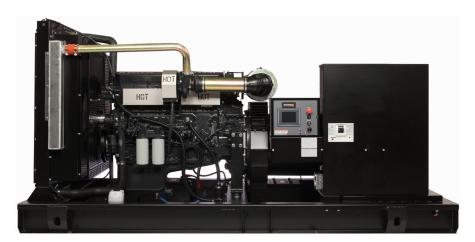


Image used for illustration purposes only

Codes and Standards

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





UL2200, UL508, UL489, UL142



CSA C22.2





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

For over 50 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.

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

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

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
- · Engine Coolant Heater

Electrical System

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

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 Unit Only)

ENCLOSURE (If Selected)

GENERAC

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)

INDUSTRIAL

- · 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

TANKS (If Selected)

- UL 142
- Double Wall
- Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested 2 psi (14 kPa)
- Rupture Basin Alarm
- Fuel Level
- · Check Valve In Supply and Return Lines
- . RhinoCoat™ Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

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
- All 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
- 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 DIESEL GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

- Oil Heater
- O Fan and Belt Guards

ENGINE SYSTEM

- O Heavy Duty Air Cleaner
- O Radiator Stone Guard
- O Air Filter Restriction Indicator

ELECTRICAL SYSTEM

- O 10A UL Battery Charger
- O Battery Warmer

ALTERNATOR SYSTEM

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

CIRCUIT BREAKER OPTIONS

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

GENERATOR SET

- GenLink[®] Communications Software (English Only)
- O Extended Factory Testing
- O IBC Seismic Certification
- 12 Position Load Center

ENCLOSURE

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

TANKS (Size On The Last Page)

- O 8 in (203.2 mm) Fill Extension
- O 13 in (330.2 mm) Fill Extension
- O 19 in (482.6 mm) Fill Extension

CONTROL SYSTEM

GENERAC

O NFPA 110 Compliant 21-Light Remote Annunciator

INDUSTRIAL

- O Remote Relay Assembly (8 or 16)
- Oil Temperature Sender with Indication 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 100 dB Alarm Horn
- Ground Fault Annunciator
- O 120 V GFCI and 240 Outlet
- O Flush Mount Annunciator Kit
- O Remote Communication Modem
- O 10A Engine Run Relay

WARRANTY

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

ENGINEERED OPTIONS

ENGINE SYSTEM

- O Coolant Heater Ball Valves
- O Fluid Containment Pan

CONTROL SYSTEM

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

ALTERNATOR SYSTEM

O 3rd Breaker System

GENERATOR SET

Special Testing

TANKS

- Overfill Protection Valve
- O UL2085 Tank
- O ULC S-601 Tank
- O Special Fuel Tanks
- Vent Extensions

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

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l٦	Α	n	P	ra	ı

Make	Iveco/FPT
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	6
Туре	In-Line
Displacement - in ³ (L)	628.54 (10.3)
Bore - in (mm)	4.92 (125)
Stroke - in (mm)	5.51 (140)
Compression Ratio	16.5:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head	4-Valve
Piston Type	Aluminum
Crankshaft Type	Dropped Forged Steel
Engine Governing	
Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.25%
Lubrication System	
Oil Pump Type	Gear
Oil Filter Type	Full Flow
Crankcase Capacity - qt (L)	31.68 (30)

Cooling System

Cooling System Type	Closed Recovery
Water Pump Type	Pre-Lubed, Self Sealing
Fan Type	Pusher
Fan Speed - RPM	2,250
Fan Diameter - in (mm)	30 (762)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications	ASTM
Fuel Filtering (Microns)	5
Fuel Inject Pump	Electronic
Fuel Pump Type	Engine Driven Gear
Injector Type	Common Rail
Engine Type	Direct Injection
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	24 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	(2)-12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0275124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	Н
Insulation Class - Stator	Н
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	< 50

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%		

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

		Standby
Single-Phase 120/240 VAC @1.0pf	275 kW	Amps: 1,146
Three-Phase 120/208 VAC @0.8pf	275 kW	Amps: 954
Three-Phase 120/240 VAC @0.8pf	275 kW	Amps: 827
Three-Phase 277/480 VAC @0.8pf	275 kW	Amps: 414
Three-Phase 346/600 VAC @0.8pf	275 kW	Amps: 331

MOTOR STARTING CAPABILITIES (skVA)

SkVA vs. Voltage Dip

277/480 VAC	30%	208/240 VAC	30%
K0275124Y21	790	K0275124Y21	609
K0350124Y21	1,001	K0350124Y21	801
K0400124Y21	717	K0500124Y23	730

FUEL CONSUMPTION RATES*

Fuel Pump Lift- ft (m)			
3 (1)			
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)			
31 (117)			

Diesel - gph (Lph)

INDUSTRIAL

Percent Load	Standby	
25%	6.8 (25.7)	
50%	11.7 (44.2)	
75%	15.8 (59.8)	
100%	19.6 (74.2)	

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

COOLING

		Standby
Coolant Flow	gpm (Lpm)	95 (360)
Coolant System Capacity	gal (L)	16.6 (63)
Heat Rejection to Coolant	BTU/hr (kW)	722,612 (211.8)
Inlet Air	cfm (m³/hr)	14,505 (411)
Maximum Operating Radiator Air Temperature	°F (°C)	122 (50)
Maximum Ambient Temperature (Before Derate)		See Bulletin No. 0199280SSD
Maximum Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power cfm (m ³ /min)	780 (22.1)

ENGINE			EXHAUST		
		Standby			Standby
Rated Engine Speed	RPM	1,800	Exhaust Flow (Rated Output)	cfm (m³/min)	2,050 (58.1)
Horsepower at Rated kW**	hp	449	Max. Allowable Backpressure	inHg (kPa)	1.5 (5.1)
Piston Speed	ft/min (m/min)	1,654 (504)	Exhaust Temp (Rated Output)	°F (°C)	950 (510)
BMEP	psi (kPa)	308 (2,124)			

 $[\]hbox{\tt ** 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.

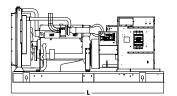
Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards. Standby - See Bulletin 10000018933

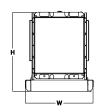
Prime - See Bulletin 10000018926

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DIMENSIONS AND WEIGHTS*

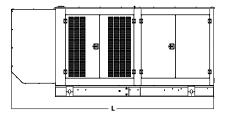






OPEN SET (Includes Exhaust Flex)

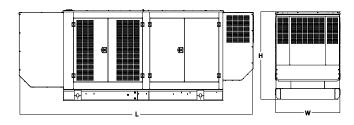
Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	68.8 (1,746) x 57.6 (1,463) x 67.8 (1,722)	6,114 (2,773)
9	183 (693)	136.0 (3,455) x 57.6 (1,463) x 80.8 (2,052)	7,062 (3,203)
22	438 (1,659)	136.0 (3,455) x 57.6 (1,463) x 92.8 (2,357)	7,374 (3,345)
35	693 (2,624)	136.0 (3,455) x 57.6 (1,463) x 104.8 (2,662)	7,710 (3,497)
48	946 (3,581)	208.3 (5,292) x 57.6 (1,463) x 108.8 (2,762)	9,139 (4,145)
67	1,325 (5,015)	277.8 (7,055) x 57.6 (1,463) x 107.2 (2,722)	10,154 (4,606)





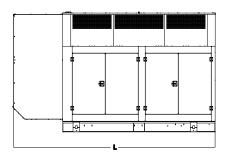
WEATHER PROTECTED ENCLOSURE

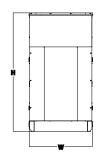
Run Time	Usable	L x W x H - in (mm)	Weight - lbs (kg)		
- Hours	Capacity - Gal (L)		Steel	Aluminum	
No Tank	-	174.7 (4,437) x 57.5 (1,460) x 77.8 (1,977)			
9	183 (693)	174.7 (4,437) x 57.5 (1,460) x 90.8 (2,307)			
22	438 (1,659)	174.7 (4,437) x 57.5 (1,460) x 102.8 (2,612)	1,522 (690)	727	
35	693 (2,624)	174.7 (4,437) x 57.5 (1,460) x 114.8 (2,917)		(330)	
48	946 (3,581)	208.3 (5,292) x 57.5 (1,460) x 118.8 (3,017)			
67	1,325 (5,015)	277.8 (7,055) x 57.5 (1,460) x 117.2 (2,977)			





Run Time - Hours	Usable	L x W x H - in (mm)	Weight - Ibs (kg)	
	Capacity - Gal (L)		Steel	Aluminum
No Tank	-	200.2 (5,084) x 57.5 (1,460) x 77.8 (1,976)	1,985 (900)	927 (421)
9	183 (693)	200.2 (5,084) x 57.5 (1,460) x 90.8 (2,306)		
22	438 (1,659)	200.2 (5,084) x 57.5 (1,460) x 102.8 (2,611)		
35	693 (2,624)	200.2 (5,084) x 57.5 (1,460) x 114.8 (2,916)		
48	946 (3,581)	208.3 (5,292) x 57.5 (1,460) x 118.8 (3,016)		
67	1.325 (5.015)	277.8 (7.055) x 57.5 (1.460) x 117.2 (2.976)		





LEVEL 2 ACOUSTIC ENCLOSURE

Run Time	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)		
- Hours			Steel	Aluminum	
No Tank	-	180.7 (4,588) x 57.5 (1,460) x 107.3 (2,725)	2,558 (1,160)	1,173 (532)	
9	183 (693)	180.7 (4,588) x 57.5 (1,460) x 120.3 (3,055)			
22	438 (1,659)	180.7 (4,588) x 57.5 (1,460) x 132.3 (3,362)			
35	693 (2,624)	180.7 (4,588) x 57.5 (1,460) x 144.3 (3,665)			
48	946 (3,581)	208.3 (5,292) x 57.5 (1,460) x 148.3 (3,765)			
67	1,325 (5,015)	277.8 (7,055) x 57.5 (1,460) x 146.7 (3,725)			

^{*} 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.