EPA Certified Stationary Emergency

Standby Power Rating

30 kW, 38 kVA, 60 Hz

Prime Power Rating*

27 kW, 34 kVA, 60 Hz



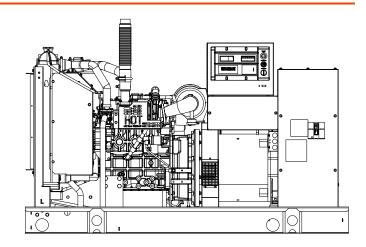


Image used for illustration purposes only

Codes and Standards

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





UL2200, UL6200, UL1236, UL489, **UL142**



CSA C22.2, ULC S601



BS5514 and DIN 6271



SAE J1349



NFPA 37, 70, 99, 110



NEC700, 701, 702, 708



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41

Powering Ahead

For over 60 years, Generac has provided innovative design and superior manufacturing.

Generac provides 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 for the most reliable engines to 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
- · 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)
- · Critical Silencer (Enclosed Unit Only)
- · Engine Coolant Heater

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

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- · Skewed Stator
- Brushless Excitation
- · Sealed Bearing
- · Rotor Dynamically Spin Balanced
- · Amortisseur Winding (3-Phase Only)
- · 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 (Enclosed Units Only)
- · 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)

ENCLOSURE (If Selected)

 Rust-Proof Fasteners with Nylon Washers to Protect Finish

INDUSTRIAL

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

GENERAC

- Upward Facing Discharge Hoods (Radiator and Exhaust)
- · Stainless Steel Lift Off Door Hinges
- · Stainless Steel Lockable Handles
- RhinoCoat™ Textured Polyester Powder Coat Paint

FUEL TANKS (If Selected)

- UL 142/ULC S601
- Double Wall
- Normal and Emergency Vents
- Sloped Top
- Sloped Bottom
- · Factory Pressure Tested
- · 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 ShutdownsNot 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)

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CONFIGURABLE OPTIONS

ENGINE SYSTEM

- o Oil Heater
- o Critical Silencer (Open Set Only)
- o Radiator Stone Guard
- 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

- o Alternator Upsizing
- o Anti-Condensation Heater
- o Tropical Coating
- o Permanent Magnet Excitation

GENERATOR SET

- o Extended Factory Testing (3-Phase Only)
- o 8 Position Load Center
- o Pad Vibration Isolation

CIRCUIT BREAKER OPTIONS

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

ENCLOSURE

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

WARRANTY (Standby Gensets Only)

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

CONTROL SYSTEM

GENERAC

- NFPA 110 Compliant 21-Light Remote Annunciator
- o Remote Relay Assembly (8 or 16)
- o Oil Temperature Indication and Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)

INDUSTRIAL

- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- o 100 dB Alarm Horn
- o Ground Fault Annunciaton
- o 120V GFCI and 240V Outlets
- o 10A Engine Run Relay

FUEL TANKS (Sizes On 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
- o Overfill Protection Valve
- o 5 Gallon Spill Box Return Hose
- o 5 Gallon Spill Box
- o Tank Risers
- o Fuel Level Switch and Alarm
- o 12' Vent System
- o Fire Rated Stainless Steel Fuel Hose

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant Heater Ball Valves
- o Fluid Containment Pan

CONTROL SYSTEM

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

ALTERNATOR SYSTEM

o 3rd Breaker System

GENERATOR SET

o Special Testing

FUEL TANKS

- o UL 2085 Tank
- Stainless Steel Tanks
- Special Fuel Tanks
- Vent Extensions

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

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APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS		Cooling System	
General		Cooling System Type	Closed Recovery
		Water Pump Type	Pre-Lubed, Self Sealing
Make	Perkins	Fan Type	Pusher
EPA Emissions Compliance	Stationary Emergency	Fan Speed - RPM	1,980
EPA Emissions Reference	See Emission Data Sheet	Fan Diameter - in (mm)	18.0 (457)
Cylinder #	4	<u> </u>	
Туре	In-line	Fuel System	
Displacement - in ³ (L)	135 (2.22)	<u> </u>	
Bore - in (mm)	3.3 (84)	Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Stroke - in (mm)	3.9 (100.0)	Fuel Specifications	ASTM
Compression Ratio	23.3:1	Fuel Filtering (Microns)	5
Intake Air Method	Turbocharged	Fuel Inject Pump	Distribution Injection Pump
Cylinder Head	Cast Iron	Fuel Pump Type	Engine Driven Gear
Piston Type	Aluminum	Injector Type	Mechanical
Crankshaft Type	Forged Steel	Fuel Supply Line - in (mm)	0.31 (7.94) ID
		Fuel Return Line - in (mm)	0.2 (4.8) ID
Engine Governing			
		Engine Electrical System	
Governor	Electronic Isochronous		
Frequency Regulation (Steady State)	±0.5%	System Voltage	12 VDC
		Battery Charger Alternator	Standard
Lubrication System		Battery Size	See Battery Index 0161970SBY
		Battery Voltage	12 VDC
Oil Pump Type	Gear Driven	Ground Polarity	Negative
Oil Filter Type	Full-Flow	<u> </u>	
Crankcase Oil Capacity - qt (L)	11.2 (10.6)		

ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	Н
Insulation Class - Stator	Н
Total Harmonic Distortion	<5% (3-Phase Only)
Telephone Interference Factor (TIF)	<50

Standard Excitation	Synchronous Brushless
Bearings	Single Sealed
Coupling	Direct via Flexible Disc
Load Capacity: Standby	100%
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

	Sta	ndby
Single-Phase 120/240 VAC @1.0pf	30 kW	Amps: 125
Three-Phase 120/208 VAC @0.8pf	30 kW	Amps: 104
Three-Phase 120/240 VAC @0.8pf	30 kW	Amps: 90
Three-Phase 277/480 VAC @0.8pf	30 kW	Amps: 45
Three-Phase 346/600 VAC @0.8pf	30 kW	Amps: 36

MOTOR STARTING CAPABILITIES (skVA)

		skVA vs. Voltage Dip			
120/240 VAC 1Ø	30%	277/480 VAC 3Ø	30%	208/240 VAC 3Ø	35%
A0025044N21	12	K0025124Y21	38	K0025124Y21	28
A0040044N21	20	K0040124Y21	76	K0040124Y21	58
A0050044N21	31	K0050124Y21	98	K0050124Y21	75

FUEL CONSUMPTION RATES*

	Diesel - gph (Lph)	
Fuel Pump Lift - ft (m)	Percent Load	Standby
3 (1)	25%	1.0 (3.7)
	50%	1.4 (5.2)
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	75%	2.0 (7.5)
16.6 (63.0)	100%	2.8 (10.5)
	*Fuel supply installation must accommodat fuel consumption rates at 100% load.	

COOLING

		Standby
Coolant Flow	gpm (Lpm)	14.9 (56.2)
Coolant System Capacity	gal (L)	2.5 (9.5)
Heat Rejection to Coolant	BTU/hr (kW)	128,638 (136)
Inlet Air	cfm (m³/min)	2,800 (79)
Maximum Operating Ambient 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

	Standby
Flow at Rated Power - cfm (m³/min)	88 (2.5)

ENGINE EXHAUST

		Standby	
Rated Engine Speed	RPM	1,800	Exhaust Flow (Rated Output)
Horespower at Rated kW**	hp	49	Maximum Allowable Exhaust Backpres
Piston Speed	ft/min (m/min)	1,181 (360)	(Post Turbocharger)
BMEP	psi (kPa)	159 (1,096)	Exhaust Temperature (Rated Output)

^{**}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 BS5514 and DIN6271 standards.

Standby - See Bulletin 0187500SSB

Standby

296.6 (8.4)

1.5 (5.1)

892 (478)

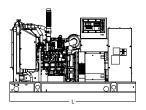
cfm (m³/min)

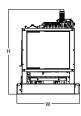
inHg (kPa)

°F (°C)

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DIMENSIONS AND WEIGHTS*

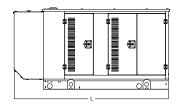




OPEN SE			
Run Time - Hours	Usable Capacity - gal (L)	L x W x H - in (mm)	Weight - Ibs (kg)
No Tank	-	76.0 (1,930) x 37.4 (950) x 44.8 (1,138)	1,456 - 1,641 (661 - 745)
19	54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	1,936 - 2,121 (879 - 963)
47	132 (500)	76.0 (1,930) x 37.4 (950) x 69.8 (1,773)	2,166 - 2,351 (983 - 1,067)
67	190 (719)	106.0 (2,692) x 37.4 (950) x 79.3 (2,014)	2,380 - 2,565 (1,081 - 1,165)
75	211 (799)	76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	2,375 - 2,560 (1,078 - 1,162)
107	300 (1.136))	92.9 (2,360) x 37.4 (950) x 85.3 (2,167)	2,438 - 2,623 (1,106 - 1,190)

WEATHER PROTECTED ENCLOSURE

Weight - lbs (kg) Enclosure Only

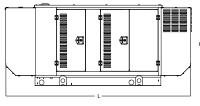




			LIIGIOGU	i C Oilly
Run Time - Hours	Usable Capacity - gal (L)	L x W x H - in (mm)	Steel	Aluminum
No Tank	-	94.8 (2,408) x 38.0 (965) x 49.5 (1,257)		
19	54 (204)	94.8 (2,408) x 38.0 (965) x 62.5 (1,588)	•	
47	132 (500)	94.8 (2,408) x 38.0 (965) x 74.5 (1,892)		
67	190 (719)	106.0 (2,692) x 38.0 (965) x 75.5 (1,917)	372 (169)	241 (109)
75	211 (799)	94.8 (2,408) x 38.0 (965) x 86.5 (2,197)		
107	300 (1,136))	94.8 (2,408) x 38.0 (965) x 90.0 (2,286)		

LEVEL 1 SOUND ATTENUATED ENCLOSURE

Weight - lbs (kg) Enclosure Only

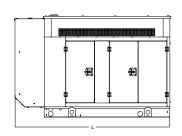


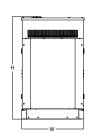


Run Time - Hours	Usable Capacity - gal (L)	L x W x H - in (mm)	Steel	Aluminum
No Tank	-	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)		
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,588)	•	
47	132 (500)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)		
67	190 (719)	112.5 (2,857) x 38.0 (965) x 84.0 (2,134)	505 (229)	338 (153)
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136))	112.5 (2,857) x 38.0 (965) x 90.0 (2,287)	•	

LEVEL 2 SOUND ATTENUATED ENCLOSURE

Weight - Ibs (kg) Enclosure Only





Run Time - Hours	Usable Capacity - gal (L)	L x W x H - in (mm)	Steel	Aluminum
No Tank	-	94.8 (2,408) x 38.0 (965) x 61.9 (1,572)		
19	54 (204)	94.8 (2,408) x 38.0 (965) x 74.9 (1,903)	•	
47	132 (500)	94.8 (2,408) x 38.0 (965) x 86.9 (2,207)	•	
67	190 (719)	106.0 (2,692) x 38.0 (965) x 87.9 (2,232)	510 (231)	341 (155)
75	211 (799)	94.8 (2,408) x 38.0 (965) x 98.9 (2,512)	•	
107	300 (1,136))	94.8 (2,408) x 38.0 (965) x 102.4 (2,601)	•	

^{*} 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. Extended and not extended tank offerings vary. Contact dealer for options.