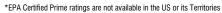
Standby Power Rating 200 kW, 250 kVA, 60 Hz

Prime Power Rating* 180 kW, 225 kVA, 60 Hz







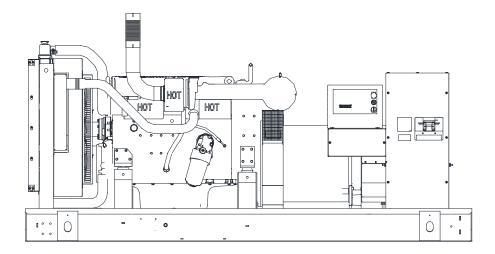


Image used for illustration purposes only

Codes and Standards

Generac products are designed to the following standards:





UL2200, UL508, UL142, 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

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
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil
- Radiator Duct Adapter (Open Set Only)
- Critical Exhaust Silencer (Enclosed 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
- 120 VAC Coolant Heater

Electrical System

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

ALTERNATOR SYSTEM

- 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 Bearings
- 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 Only)

ENCLOSURE (If Selected)

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

TANKS (If Selected)

- UL 142
- Double Wall
- Vents
- · Sloped Top
- Sloped Bottom
- Factory Pressure Tested (2 psi)
- Rupture Basin Alarm
- Fuel Level
- · Check Valve In Supply and Return Lines
- RhinoCoat™ Textured Polyester Powder Coat
- 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
- 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 DIESEL GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil Make-Up System
- Oil Heater
- O Industrial Exhaust Silencer (Open Set)

FUEL SYSTEM

- O Flexible Fuel Lines
- O Primary Fuel Filter

ELECTRICAL SYSTEM

- 10A UL Battery Charger
- 2.5A Battery Charger
- O Battery Warmer

ALTERNATOR SYSTEM

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

CIRCUIT BREAKER OPTIONS

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

GENERATOR SET

- O Gen-Link Communications Software (English Only)
- O Extended Factory Testing
- O IBC Seismic Certification
- 12 Position Load Center

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
- O Up to 200 MPH Wind Load Rating*
- O AC/DC Enclosure Lighting Kit

CONTROL SYSTEM

- 21-Light Remote Annunciator
- O Remote Relay Panel (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 Remote Communication-Modem
- O 10A Run Relay
- O Ground Fault Indication and Protection Functions

TANKS (Size On The Last Page)

- O Electric Fuel Level
- Mechanical Fuel Level
- O 8" Fill Extension
- O 13" Fill Extension
- O 19" Fill Extension

WARRANTY (Standby Gensets Only)

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

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant Heater Ball Valves
- Fluid Containment Pans
- O Block Heaters

CONTROL SYSTEM

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

ALTERNATOR SYSTEM

O 3rd Breaker System

GENERATOR SET

O Special Testing

ENCLOSURE

- O Door Switch for Intrusion Alarm
- O Enclosure Ambient Heaters

TANKS

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

^{*} Consult factory for availability

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

_			
(-)	16	ro	ш

Make	Iveco/FPT
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	6
Туре	In-Line
Displacement - L (cu. in)	8.7 (530.91)
Bore - mm (in)	117 (4.61)
Stroke - mm (in)	135 (5.31)
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%

Gear

Full Flow

28 (29.57)

Cooling System

Cooling System Type	Closed Recovery
Water Pump Type	Pre-Lubed, Self Sealing
Fan Type	Pusher
Fan Speed (rpm)	2,538
Fan Diameter - mm (in)	762 (30.0)

Fuel System

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

Lubrication System

Crankcase Capacity - L (qts)

Oil Pump Type

Oil Filter Type

Standard Model	Generac 520 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	Permanent Magnet Excitation
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	200 kW	Amps: 833
Three-Phase 120/208 VAC @0.8pf	200 kW	Amps: 694
Three-Phase 120/240 VAC @0.8pf	200 kW	Amps: 601
Three-Phase 277/480 VAC @0.8pf	200 kW	Amps: 301
Three-Phase 346/600 VAC @0.8pf	200 kW	Amps: 241

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	200	187	280	373	467	560	653	Standard	200	140	210	280	350	420	490
Upsize 1	300	303	454	605	757	908	1,059	Upsize 1	300	277	341	454	568	681	794
Upsize 2	350	383	575	767	958	1,150	1,342	Upsize 2	350	280	410	535	640	770	900

FUEL CONSUMPTION RATES*

Diesel - gal/hr (l/hr)

Fuel Pump Lift- ft (m)	Percent Load	Standby
3 (1)	25%	4.4 (16.7)
	50%	8.3 (31.4)
Total Fuel Pump Flow (Combustion + Return) - gal/hr (l/hr)	75%	11.9 (45)
26 (98)	100%	14.8 (56)

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

COOLING

		Standby
Coolant Flow per Minute	gal/min (l/min)	63.3 (240)
Coolant System Capacity	gal (I)	12.7 (49.2)
Heat Rejection to Coolant	BTU/hr	545,646
Inlet Air	cfm (m³/hr)	8,872 (251)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin I	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)	595 (16.8)

ENGINE			EXHAUST	EXHAUST		
		Standby			Standby	
Rated Engine Speed	rpm	1,800	Exhaust Flow (Rated Output)	cfm (m³/min)	1,345 (38.1)	
Horsepower at Rated kW**	hp	320	Max. Backpressure (Post Silencer)	inHg (Kpa)	1.5 (5.1)	
Piston Speed	ft/min	1,593	Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	920 (493)	
BMFP	nsi	265				

^{**} 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 consult 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

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DIMENSIONS AND WEIGHTS*



Weight lbs (kg)

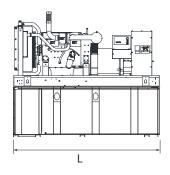
5,470 (2,481)

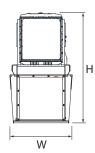
5,892 (2,673)

6,309 (2,862)

6,060 (2,749)

7,490 (3,397)





128 (3,251) x 54 (1,372) x 95 (2,413) 40 589 (2,227) 47 693 (2,623.3) 136 (3,454) x 54 (1,372) x 95 (2,413) 64 208 (5,283) x 54 (1,372) x 99 (2,515) 946 (3,581) 90 1,325 (5,015.7) 278 (7,061) x 54 (1,372) x 99 (2,515) 8,505 (3,858) STANDARD ENCLOSURE

Run

Time

Hours

No Tank

10

25

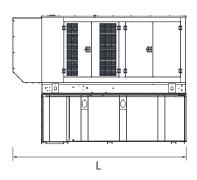
OPEN SET (Includes Exhaust Flex) Usable

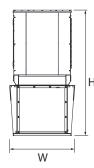
Capacity

Gal (L)

153 (579.2)

372 (1,407)





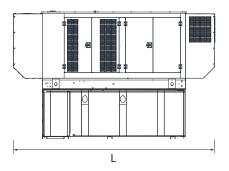
Run Time	Usable	L x W x H (in (mm)	Weight lbs (kg) Enclosure Only	
Hours	Capacity Gal (L)		Steel	Aluminum
No Tank	-	155 (3,937) x 54 (1,372) x 70 (1,778)	-	
10	153 (579.2)	155 (3,937) x 54 (1,372) x 83 (2,108)		
25	372 (1,407)	155 (3,937) x 54 (1,372) x 95 (2,413)	0.44	474
40	589 (2,227)	155 (3,937) x 54 (1,372) x 107 (2,718)	941 (427)	474 (215)
47	693 (2,623.3)	155 (3,937) x 54 (1,372) x 107 (2,718)	(421)	(210)
64	946 (3,581)	208 (5,283) x 54 (1,372) x 111 (2,819)		
90	1,325 (5,015.7)	278 (7,061) x 54 (1,372) x 111 (2,819)		

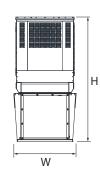
LxWxH (in (mm)

128 (3,251) x 54 (1,372) x 71 (1,803)

128 (3,251) x 54 (1,372) x 83 (2,108)

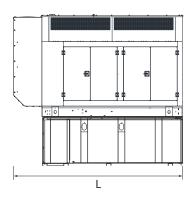
128 (3,251) x 54 (1,372) x 58 (1,473) 4,465 (2,025)

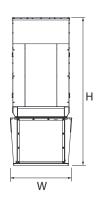




LEVEL 1 ACOUSTIC ENCLOSURE

Run Time	Usable Capacity Gal (L)	L x W x H (in (mm)	Weight lbs (kg) Enclosure Only	
Hours	Capacity Gai (L)		Steel	Aluminum
No Tank	-	180 (4,572) x 54 (1,372) x 70 (1,778)	1,246 (565)	606 (275)
10	153 (579.2)	180 (4,572) x 54 (1,372) x 83 (2,108)		
25	372 (1,407)	180 (4,572) x 54 (1,372) x 95 (2,413)		
40	589 (2,227)	180 (4,572) x 54 (1,372) x 107 (2,718)		
47	693 (2,623.3)	180 (4,572) x 54 (1,372) x 107 (2,718)		
64	946 (3,581)	234 (5,944) x 54 (1,372) x 111 (2,819)		
90	1,325 (5,015.7)	304 (7,722) x 54 (1,372) x 111 (2,819)		





LEVEL 2 ACOUSTIC ENCLOSURE

Run Time		Usable	L x W x H (in (mm)	Weight lbs (kg) Enclosure Only	
	Hours	Capacity Gal (L)		Steel	Aluminum
	No Tank	-	155 (3,937) x 54 (1,372) x 93 (2,362)	1,482 (672)	708 (321)
	10	153 (579.2)	155 (3,937) x 54 (1,372) x 106 (2,692)		
	25	372 (1,407)	155 (3,937) x 54 (1,372) x 118 (2,997)		
	40	589 (2,227)	155 (3,937) x 54 (1,372) x 130 (3,302)		
	47	693 (2,623.3)	155 (3,937) x 54 (1,372) x 130 (3,302)		
	64	946 (3,581)	208 (5,283) x 54 (1,372) x 132 (3,353)		
	90	1,325 (5,015.7)	278 (7,061) x 54 (1,372) x 132 (3,353)		

^{*} All measurements are approximate and for estimation purposes only.

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.

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