STANDBY POWER RATING

130 kW, 163 kVA, 60 Hz

PRIME POWER RATING*

117 kW, 146 kVA, 60 Hz





*Built in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the U.S. or its Territories.

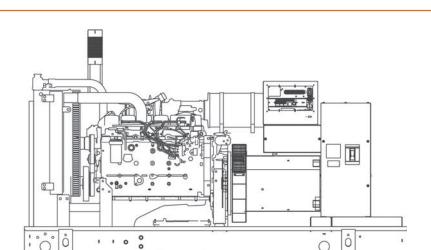


Image used for illustration purposes only

CODES AND STANDARDS

Generac products are designed to the following standards:



UL2200, UL508, UL142, UL498



NFPA70, 99, 110, 37



NEC700, 701, 702, 708



ISO9001, 8528, 3046, 7637, Pluses #2b, 4



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41

POWERING AHEAD

For over 50 years, Generac has led the industry with 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

Generac's 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 application under adverse conditions.

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

^{**}Certain options or customization may not hold certification valid.

SD130 | 6.7L | 130 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

General

- · Oil Drain Extension
- Air Cleaner
- · Fan Guard
- · Stainless Steel flexible exhaust connection
- · Critical Exhaust Silencer (enclosed only)
- · Factory Filled Oil
- · 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
- · 120 VAC Coolant Heater

Engine Electrical System

- · Battery charging alternator
- · Battery cables
- · Battery tray
- · Solenoid activated starter motor
- Rubber-booted engine electrical connections

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- 12 leads (3-phase, non 600 V)
- · Class H insulation material
- Vented rotor
- 2/3 pitch
- · Skewed stator
- · Auxiliary voltage regulator power winding
- · Amortisseur winding
- · Brushless Excitation
- · Sealed Bearings
- Automated manufacturing (winding, insertion, lacing, varnishing)
- Rotor dynamically spin balanced
- · Full load capacity alternator
- · Protective thermal switch

GENERATOR SET

- · Internal Genset Vibration Isolation
- · Separation of circuits high/low voltage
- · Separation of circuits multiple breakers
- · Silencer Heat Shield
- Wrapped Exhaust Piping
- · Silencer housed in discharge hood (enclosed 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 only)

ENCLOSURE (IF SELECTED)

- Rust-proof fasteners with nylon washers to protect finish
- · High performance sound-absorbing material
- · Gasketed doors
- · Stamped air-intake louvers
- · Air discharge hoods for radiator-upward pointing
- · Stainless steel lift off door hinges
- · Stainless steel lockable handles
- Rhino Coat[™] 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
- Rhino Coat[™]- Textured polyester powder coat
- Stainless hardware

CONTROL SYSTEM



Control Panel

- Digital H Control Panel Dual 4x20 Display
- · Programmable Crank Limiter
- 7-Day Programmable Exerciser
- · Special Applications Programmable PLC
- RS-232/485
- · All-Phase Sensing DVR
- · Full System Status
- · Utility Monitoring
- Low Fuel Pressure Indication
- 2-Wire Start Compatible
- · Power Output (kW)

- Power Factor
- kW Hours, Total & Last Run
- · Real/Reactive/Apparent Power
- All Phase AC Voltage
- · All Phase Currents
- · Oil Pressure
- · Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- FrequencyDate/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
- 15 channel data logging
- 0.2 msec high speed data logging
- Alarm information automatically comes up on the display

Alarms

- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Battery Voltage Warning
- · Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

General

- O Oil Heater
- O Industrial Exhaust Silencer

Fuel System

- O Flexible fuel lines
- O Primary fuel filter

Engine Electrical System

- O 10A UL battery charger
- O 2.5A UL battery charger
- O Battery Warmer

ALTERNATOR SYSTEM

- O Alternator Upsizing
- O Anti-Condensation Heater
- O Tropical coating
- O Permanent Magnet Excitation

CIRCUIT BREAKER OPTIONS

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

GENERATOR SET

- O Gen-Link Communications Software (English Only)
- O IBC Seismic Certification
- O 8 Position Load Center
- O 2 Year Extended Warranty
- O 5 Year Warranty
- O 5 Year Extended Warranty

ENCLOSURE

- O Weather Protected
- O Level 1 Sound Attenuation
- O Level 2 Sound Attenuation
- O Steel Enclosure
- O Aluminum Enclosure
- O 150 MPH Wind Kit
- O 12 VDC Enclosure Lighting Kit
- O 120 VAC Enclosure Lighting Kit
- O AC/DC Enclosure Lighting Kit
- O Door Alarm Switch

TANKS (Size on last page)

- O Electrical Fuel Level
- O Mechanical Fuel Level
- O 8" Fill Extension
- O 13" Fill Extension

CONTROL SYSTEM

- O 21-Light Remote Annunciator
- O Remote Relay Panel (8 or 16)
- O Oil Temperature Sender with Indication Alarm
- O Remote E-Stop (Break Glass-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Flush Mount)
- O Remote Communication Modem
- O Remote Communication Ethernet
- O 10A Run Relay
- O Ground Fault Indication and Protection Functions

ENGINEERED OPTIONS

ENGINE SYSTEM

- O Coolant heater ball valves
- O Block Heaters
- O Fluid containment pans

ALTERNATOR SYSTEM

O 3rd Breaker Systems

CONTROL SYSTEM

- O Spare inputs (x4) / outputs (x4) H Panel Only
- O Battery Disconnect Switch

GENERATOR SET

O Special Testing

ENCLOSURE

- O Motorized Dampers
- O Door switched for intrusion alert
- O Enclosure ambient heaters

TANKS

- O Overfill Protection Valve
- O UL2085 Tank
- O ULC S-601 Tank
- O Stainless Steel Tank
- O Special Fuel Tanks (MIDEQ and FL DEP/DERM, etc.)
- O Vent Extensions

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition

INDUSTRIAL DIESEL GENERATOR SET



EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS			
General		Cooling System	
Make	Iveco/FPT	Cooling System Type	Closed Recovery
EPA Emissions Compliance	Stationary Emergency	Water Pump	Belt Driven Centrifugal
EPA Emissions Reference	See Emissions Data Sheet	Fan Type	Pusher
Cylinder #	6	Fan Speed (rpm)	2538
Туре	In-Line	Fan Diameter mm (in)	599 (23.6)
Displacement - L (cu In)	6.7 (406.86)	Coolant Heater Wattage	1500
Bore - mm (in)	104 (4.09)	Coolant Heater Standard Voltage	120 V /240 V
Stroke - mm (in)	128 (5.2)		
Compression Ratio	16.5:1		
Intake Air Method	Turbocharged/Aftercooled	Fuel System	
Cylinder Head Type	2 Valve	Fuel Type	Ultra Low Sulfur Diesel Fue
Piston Type	Alloy Aluminum	Fuel Specifications	ASTM
Crankshaft Type	Forged Steel	Fuel Filtering (microns)	5
		Fuel Injection	Stanadyne
Engine Governing		Fuel Pump Type	Engine Driven Gear
Governor	Electronic Isochronous	Injector Type	Mechanical
Frequency Regulation (Steady State)	+/- 0.25%	Fuel Supply Line mm (in)	12.7 (0.5) NPT
		Fuel Return Line mm (in)	12.7 (0.5) NPT
Lubrication System			
Oil Pump Type	Gear	Facility Floridiscal Overhood	
Oil Filter Type	Full Flow	Engine Electrical System	
Crankcase Capacity - L (qts)	17 (18)	System Voltage	12 VDC
		Battery Charging Alternator	Std
		Battery Size	See Battery Index 0161970SBY
		Battery Voltage	12 VDC
		Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	390	
Poles	4	
Field Type	Revolving	
Insulation Class - Rotor	Н	
Insulation Class - Stator	Н	
Total Harmonic Distortion	<3%	
Telephone Interference Factor (TIF)	<50	

Standard Excitation	Synchronous Brushless
Bearings	Single Seated Cartridge
Coupling	Direct, Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
All	All
Regulation Accuracy (Steady State)	±0.25%

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

	S	tandby
Single-Phase 120/240 VAC @1.0pf	130 kW	Amps: 542
Three-Phase 120/208 VAC @0.8pf	130 kW	Amps: 451
Three-Phase 120/240 VAC @0.8pf	130 kW	Amps: 391
Three-Phase 277/480 VAC @0.8pf	130 kW	Amps: 195
Three-Phase 346/600 VAC @0.8pf	130 kW	Amps: 156

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

			480 VAC						208/24	10 VAC			
<u>Alternator</u>	<u>kW</u>	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	130	116	174	232	290	348	406	87	131	174	218	261	305
Upsize 1	150	133	199	265	332	398	464	100	149	199	249	299	340
Upsize 2	200	187	280	373	467	560	653	140	210	280	350	420	490

FUEL CONSUMPTION RATES*

Diesel - gal/hr (l/hr)

Fuel Pump Lift - ft (m)	Percent Load	Standby
3 (1)	25%	2.9 (11.0)
	50%	5.4 (20.4)
Total Fuel Pump Flow (Combustion + Return)	75%	7.7 (29.1)
29.1 gal/hr	100%	9.6 (36.3)

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

COOLING

		Standby	
Coolant Flow per Minute	gal/min (l/min)	44.6 (168.8)	
Coolant System Capacity	gal (L)	5.65 (21.4)	
Heat Rejection to Coolant	BTU/hr	353,900	
Inlet Air	cfm (m³/hr)	7900 (223.7)	_
Max. Operating Radiator Air Temp	Fo (Co)	122 (50)	_
Max. Ambient Temperature (before derate)	Fo (Co)	104 (40)	_
Maximum Radiator Backpressure	in H ₂ 0	0.5	_

COMBUSTION AIR REQUIREMENTS

		Standby	
Flow at Rated Power	cfm (m³/min)	390 (11.05)	

ENGINE			EXHAUST		
		Standby			Standby
Rated Engine Speed	rpm	1800	Exhaust Flow (Rated Output)	cfm (m³/min)	910 (25.8)
Horsepower at Rated kW**	hp	198	Max. Backpressure (Post Silencer)	inHg (Kpa)	1.5 (5.1)
Piston Speed	ft/min (m/min)	1559 (475)	Exhaust Temp (Rated Output)	°F (°C)	960 (516)
BMEP	psi	213	Exhaust Outlet Size (Open Set)	mm (in)	101.6 (4)

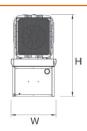
^{**} Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

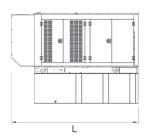
INDUSTRIAL DIESEL GENERATOR SET

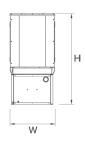
EPA Certified Stationary Emergency

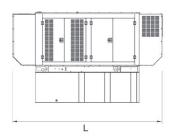
DIMENSIONS AND WEIGHTS*

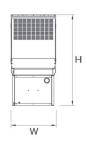


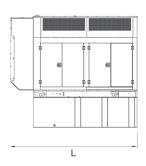


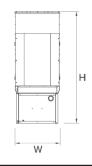












YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

OPEN SET

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Tank & Open Set
NO TANK	-	110 (2794) x 40 (1016) x 65 (1651)	3104 (1408)
9	90 (340.7)	110 (2794) x 40 (1016) x 77 (1955.8)	3813 (1730)
23	220 (832.8)	110 (2794) x 40 (1016) x 89 (2260.6)	4146 (1881)
36	350 (1324.9)	110 (2794) x 40 (1016) x 101 (2565.4)	4488 (2036)
53	510 (1930.6)	110 (2794) x 40 (1016) x 105 (2667)	4469 (2029)
61	589 (2229.6)	128 (3251.2) x 49 (1244.6) x 107 (2717.8)	4948 (2244)
72	693 (2623.3)	136 (3454.4) x 53 (1346.2) x 107 (2717.8)	4667 (2117)

STANDARD ENCLOSURE

RUN TIME	USABLE CAPACITY	Ly Wy Hin (mm)	WT lbs (kg) - Enclosure Only		
HOURS	GAL (L)	L x W x H in (mm)	Steel	Aluminum	
NO TANK	-	133 (3378) x 40 (1016) x 64 (1625.6)	_		
9	90 (340.7)	133 (3378) x 40 (1016) x 77 (1956)			
23	220 (832.8)	133 (3378) x 40 (1016) x 89 (2261)			
36	350 (1324.9)	133 (3378) x 40 (1016) x 101 (2565)	500 (227)	165 (75)	
53	510 (1930.6)	133 (3378) x 47 (1194) x 105 (2667)			
61	589 (2229.6)	133 (3378) x 49 (1125) x 107 (2718)			
72	693 (2623.3)	133 (3378) x 53 (1346) x 107 (2718)			

LEVEL 1 ACOUSTIC ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only	
			Steel	Aluminum
NO TANK	-	154 (3912) x 40 (1016) x 64 (1626)		
9	90 (340.7)	154 (3912) x 40 (1016) x 77 (1956)		
23	220 (832.8)	154 (3912) x 40 (1016) x 89 (2261)	_	
36	350 (1324.9)	154 (3912) x 40 (1016) x 101 (2565)	750 (340)	250 (112)
53	510 (1930.6)	154 (3912) x 47 (1194) x 105 (2667)	-	
61	589 (2229.6)	154 (3912) x 49 (1245) x 107 (2718)		
72	693 (2623.3)	154 (3912) x 53 (1346) x 107 (2718)		

LEVEL 2 ACOUSTIC ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only	
			Steel	Aluminum
NO TANK	-	145 (3683) x 40 (1016) x 81 (2057)	-	
9	90 (340.7)	145 (3683) x 40 (1016) x 84 (2134)		
23	220 (832.8)	145 (3683) x 40 (1016) x 106 (2692)		
36	350 (1324.9)	145 (3683) x 40 (1016) x 118 (2997)	1000 (454)	330 (150)
53	510 (1930.6)	145 (3683) x 47 (1194) x 122 (3099)	-	
61	589 (2229.6)	145 (3683) x 49 (1245) x 124 (3150)		
72	693 (2623.3)	145 (3683) x 53 (1346) x 124 (3150)		

^{*}All measurements are approximate and for estimation purposes only. Sound dBA can be found on the sound data sheet. Enclosure Only weight is added to Tank & Open Set weight to determine total weight.

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.