GENERAC INDL

EPA Certified Stationary Emergency

Standby Power Rating

1,000 kW, 1,250 kVA, 60 Hz

Prime Power Rating*

900 kW, 1,125 kVA, 60 Hz





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

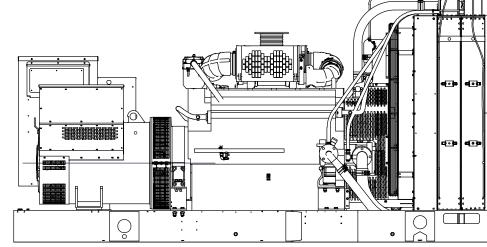


Image used for illustration purposes only

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



ISO 3046, 7637, 8528, 9001



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41

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.

INDUSTRIAL DIESEL GENERATOR SET

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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)
- · Engine Coolant Heater

FUEL SYSTEM

- Flexible Fuel Lines
- Primary and Secondary 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

- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Permanent Magnet Excitation
- · Sealed Bearing
- Full Load Capacity Alternator

GENERATOR SET

- Separation of Circuits High/Low Voltage
- Separation of Circuits Multiple Breakers
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- InteliMonitor Communications Software (English Only)
- Spring Isolator

ENCLOSURE (If Selected)

- · Structural Steel Sub-Base
- · Sub-Base Lifting Eyes
- · Enamel Finish
- Zinc Plated Fasteners
- Zinc Plated Cast Aluminum Keylock Door Handles
- Heavy Duty Stainless Steel Hinges with Removable Brass Pins
- Modular Construction

FUEL TANKS (If Selected)

- UL 142/ULC S601
- Double Wall
- Vents
- Factory Pressure Tested (2 psi)
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- Stainless Steel Hardware
- Fuel Line Hose
- Fuel Line Hose and Separator
- · Electronic Fuel Level
- Secondary Fuel Filter

CONTROL SYSTEM



InteliGen® NT Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- 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
- 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 SpeedBattery 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

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GENERAC* INDUSTRIAL

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- 50°C Ambient Cooling System
- O Heavy Duty Air Cleaner
- O Critical and Hospital Grade Silencers
- O CCV (Closed Crankcase Ventilation)
- O Radiator Duct Flange
- O Radiator Core Guard
- O Air Filter Restriction Indicator

ELECTRICAL SYSTEM

- 10A UL Listed Battery Charger
- 20A UL Listed Battery Charger
- O Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- O Anti-Condensation Heater

CIRCUIT BREAKER OPTIONS

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

GENERATOR SET

O Spring Isolators (Standard/Seismic)

ENCLOSURE

- Weather Protected Enclosure
- Level 1 Sound Attenuated
- Level 2 Sound Attenuated
- Steel Enclosure
- O Aluminum Enclosure
- O AC Electrical Lighting Package (ELP)
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- O Louvers with Gravity Dampers
- Enclosure Heaters

FUEL TANKS (Size On Last Page)

- O Mechanical Fuel Level
- O Fuel Line Kits
- O Fuel Water Separator

CONTROL SYSTEM

- 15-LED Remote Annunciator
- O Remote Relay Assembly (8 or 16)
- O Remote E-Stop Surface Mount
- O Local E-Stop Panel
- O Remote Communication InternetBridge NT
- O 10A Engine Run Relay
- O Low Coolant Level
- O 90% Alarm High Fuel Program
- Remote Display
- O Speed Adjust Switch
- O Shunt Trip Relay
- O Louver Relay

WARRANTY (Standby Gensets Only)

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

ENGINEERED OPTIONS

ENGINE SYSTEM

- O Coolant Heater Ball Valves
- Oil Heater
- O Fuel Cooler
- O High Lift Pumps
- O Heavy Duty Air Filters (Open Units Only)

ALTERNATOR SYSTEM

- O 3rd Breaker System
- O Unit Mounted Load Banks
- O Medium Voltage Alternators

CONTROL SYSTEM

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

GENERATOR SET

- O Special Testing
- O 12 VDC Enclosure Lighting Kit
- O 24 VDC/120 VAC Enclosure Lighting Kit

ENCLOSURE

- O Door Open Alarm Switch
- O Level 3 Enclosure
- Custom Enclosure

FUEL TANKS

- Overfill Protection Valve
- O UL2085 Tank
- O Special Fuel Tanks
- Vent Extensions
- O Transfer Pumps and Controllers
- O Fuel Tank Heaters
- O Stainless Steel Tank

INDUSTRIAL DIESEL GENERATOR SET

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APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

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Make	Mitsubishi			
Model	S12H-Y2PTAW-1			
EPA Emissions Compliance	Tier 2			
EPA Emissions Reference	See Emission Data Sheet			
Cylinder #	12			
Туре	4 Cycle - V12			
Displacement - in ³ (L)	2,265 (37.1)			
Bore - in (mm)	5.91 (150)			
Stroke - in (mm)	6.89 (175)			
Compression Ratio	14.5:1			
Intake Air Method	Turbocharged/Intercooled			
Cylinder Head	4-Valve			
Piston Type	Aluminum			
Crankshaft Type	Dropped Forged Steel			

Engine Governing

Oil Filter Type

Crankcase Capacity - qt (L)

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%
Lubrication System	
Oil Pump Type	Gear

Cartridge

192 (180)

Cooling System

Cooling System Type	Unit Mounted Radiator
Water Pump Type	Centrifugal
Fan Type	Pusher
Fan Speed - RPM	1,001
Fan Diameter - in (mm)	64 (1,625)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel #2
Fuel Specifications	ASTM
Fuel Filtering (Microns)	10 (Final Filters)
Fuel Inject Pump	Electronic
Fuel Pump Type	Engine Driven Gear
Injector Type	Electronic Injector x 12
Fuel Supply Line - in (mm)	1 NPT (25.0)
Fuel Return Line - in (mm)	1 NPT (25.0)

Engine Electrical System

System Voltage	24 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	(4) - 12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K1000064N22
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	Analog
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.5%

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OPERATING DATA

POWER RATINGS

	Standby	
Three-Phase 277/480 VAC @0.8pf	1,000 kW/1,250 kVA	Amps: 1,504
Three-Phase 346/600 VAC @0.8pf	1,000 kW/1,250 kVA	Amps: 1,203

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip 277/480 VAC 30% K0912124Y22 2,560 K1000064N22 3,100

FUEL CONSUMPTION RATES*

	Diesel - gph (Lph)		
Fuel Pump Lift- ft (m)	Percent Load	Standby	
3 (1)	25%	23.8 (90)	
	50%	44.0 (166)	
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	75%	66.0 (250)	
462 (1,750)	100%	82.9 (314)	

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

COOLING					
Cooling Rating - Jacket Water		Standby	Cooling Rating - Aftercooler		Standby
Coolant Flow	gpm (Lpm)	383 (1,450)	Coolant Flow	gpm (Lpm)	132 (500)
Coolant System Capacity	gal (L)	76.3 (289)	Coolant System Capacity	gal (L)	48.3 (183)
Heat Rejection to Coolant	BTU/hr (kW)	1,494,060 (438)	Heat Rejection to Coolant	BTU/hr (kW)	1,173,900 (344)
Inlet Air - 40 °C Cooling Package	cfm (m³/min)	36,600 (1,037)			
Inlet Air - 50 °C Cooling Package	cfm (m³/min)	36,600 (1,037)	Cooling Rating - Fuel Pump		Standby
Maximum Operating Ambient Temperature	°F (°C)	122 (50)	Heat Rejected to Fuel	BTU/hr (kW)	71,892 (21)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin N	o. 0199280SSD			
Maximum Additional Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)			

COMBUSTION AIR REQUIREMENTS

		Flow at Rated Pow	er - cfm (m³/min)	3,602 (102)		
ENGINE			EXHAUST			
		Standby				Standby
Rated Engine Speed	RPM	1,800	Exhaust Flow	(Rated Output)	cfm (m³/min)	9,534 (270)
Horsepower at Rated kW**	hp	1,528	Maximum Allo	wable Backpressure (Post Turbo)	inHg (kPa)	1.7 (5.9)
Piston Speed	ft/min (m/min)	2,067 (630)	Exhaust Temp	erature (Rated Output - Post Turbo)	°F (°C)	932 (500)
BMEP	psi (kPa)	297 (2,048)				

Standby

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

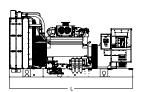
Prime - See Bulletin 10000018926

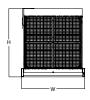
^{**} Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

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GENERAC INDUSTRIAL POWER

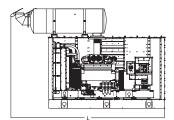
DIMENSIONS AND WEIGHTS*

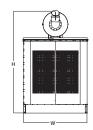




OPEN SET

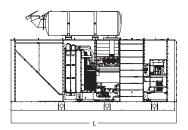
	Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - Ibs (kg)
	No Tank	-	180.0 (4,572) x 90.0 (2,286) x 98.0 (2,489)	23,338 (10,586)
	12	950 (3,596)	201.0 (5,105) x 104.0 (2,642) x 122.0 (3,099)	25,666 (11,642)
,	24	1,900 (7,192)	201.0 (5,105) x 104.0 (2,642) x 137.0 (3,480)	27,216 (12,345)

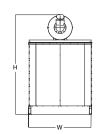




WEATHER PROTECTED ENCLOSURE

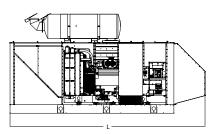
	Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - Ibs (kg) Enclosure Only
	No Tank	-	172.0 (4,369) x 110.0 (2,794) x 172.0 (4,369)	
_	12	950 (3,596)	201.0 (5,105) x 110.0 (2,794) x 174.0 (4,420)	Steel - 5,310 (2,409) Aluminum - 4,115 (1,866)
	24	1,900 (7,192)	201.0 (5,105) x 110.0 (2,794) x 189.0 (4,801)	7110 (1,000)

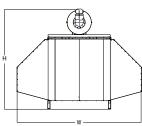




LEVEL 1 SOUND ATTENUATED ENCLOSURE

	Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - Ibs (kg) Enclosure Only
	No Tank	-	288.0 (7,315) x 110.0 (2,794) x 172.0 (4,369)	
_	12	950 (3,596)	288.0 (7,315) x 117.0 (2,972) x 169.0 (4,293)	Steel - 8,405 (3,812) Aluminum - 7,210 (3,270)
	24	1,900 (7,192)	288.0 (7,315) x 117.0 (2,972) x 193.0 (4,902)	7,210 (0,270)





LEVEL 2 SOUND ATTENUATED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - Ibs (kg) Enclosure Only
No Tank	-	339.0 (8,611) x 217.0 (5,512) x 172.0 (4,369)	_
12	950 (3,596)	339.0 (8,611) x 217.0 (5,512) x 169.0 (4,293)	Steel - 9,530 (4,323) - Aluminum - 6,478 (2,938)
24	1,900 (7,192)	339.0 (8,611) x 217.0 (5,512) x 178.0 (4,521)	- Aluminum - 0,470 (2,500)

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

6 of 6