INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

Standby Power Rating 1,250 kW, 1,563 kVA, 60 Hz

Prime Power Rating* 1,125 kW, 1,406 kVA, 60 Hz

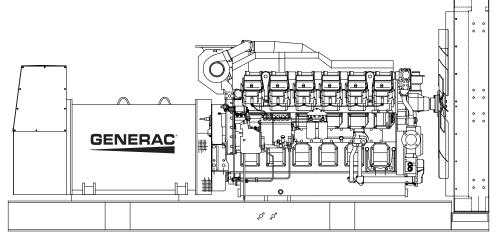


Image used for illustration purposes only

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Codes and Standards

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

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



UL2200, UL6200, UL1236, UL489,

BS5514 and DIN 6271

NFPA 37, 70, 99, 110

NEC700, 701, 702, 708

ISO 3046, 7637, 8528, 9001



NEMA ICS10, MG1, 250, ICS6, AB1

ANSI

IBC 2009, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

Powering Ahead

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

GENERAC

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.

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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 and Coolant
- Radiator Duct Adapter (Open Set Only)
- Engine Coolant Heater
- Critical Grade Silencer (Enclosed Units Only)

Fuel System

- Flexible Fuel Lines (When Tank is Selected)
- 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

- 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 Dual Breakers
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)

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
- Double Wall
- Vents
- Factory Pressure Tested (2 psi)
- Rupture Basin Alarm

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- 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 Speed
- Battery Voltage
- Frequency

Alarms and Warnings

Coolant Temperature

Engine Overspeed

Battery Voltage

Alarms and Warnings

· Alarms and Warnings Time and Date Stamped

Snap Shots of Key Operation Parameters During

Alarms and Warnings Spelled Out (No Alarm Codes)

SPEC SHEET

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Oil Pressure

Coolant Level

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INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- 50° Ambient Cooling System
- Critical and Hospital Grade Silencers
- Critical Grade Exhaust (Open Set Only)
- CCV (Closed Crankcase Ventilation)
- Engine Drain Kit
- Air Cleaner with Indicator

ELECTRICAL SYSTEM

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

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater

CIRCUIT BREAKER OPTIONS

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

GENERATOR SET

○ Spring Isolators (Standard/Seismic)

ENCLOSURE

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

WARRANTY (Standby Gensets Only)

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

CONTROL SYSTEM

GENERAC

- NFPA110 Level I and II (Programmable) 15- LED Remote Annunciator
- \circ Remote Relay Assembly (8 or 16)
- Shipped Loose Remote E-Stop Surface Mount
- Generator Control Panel Mounted E-Stop
- Remote Communication InternetBridge NT
- 10A Engine Run Relay
- Low Coolant Level Indication
- 90% High Fuel Alarm

FUEL TANKS (Size on Last Page)

- Mechanical Fuel Level
- 12 Hour Run Time
- 24 Hour Run Time

ENGINEERED OPTIONS

ENGINE SYSTEM

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

ALTERNATOR SYSTEM

- 3rd Breaker System
- 4th Breaker Options
- Unit Mounted Load Banks
- Medium Voltage Alternators
- Digital Voltage Regulator

CONTROL SYSTEM

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

GENERATOR SET

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

ENCLOSURE

- Door Open Alarm Switch
- Level 3 Sound Attenuated Enclosure
- Custom Enclosure

TANKS

- Overfill Protection Valve
- UL2085 Tank
- O ULC S601 Tank
- Special Fuel Tanks
- External Vent Extensions
- Transfer Pumps and Controllers
- Fuel Tank Heaters

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APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Gonoral		Cooling System
Make	Mitsubishi	oboling oyotoli
Model	S12R-Y2PTAW-1	Cooling System Type
EPA Emissions Compliance	Tier 2	Water Pump Type
EPA Emissions Reference	See Emission Data Sheet	Fan Type
Cylinder #	12	Fan Speed - RPM
Туре	4 Cycle - V12	Fan Diameter - in (mm)
Displacement - in ³ (L)	2,992 (49.0)	
Bore - in (mm)	6.69 (170)	Fuel System
Stroke - in (mm)	7.09 (180)	Fuel Type
Compression Ratio	14.5:1	Fuel Specifications
Intake Air Method	Turbocharged/Intercooled	Fuel Filtering (Microns)
Cylinder Head	4-Valve	Fuel Inject Pump Make
Piston Type	Aluminum	Fuel Pump Type
Crankshaft Type	Dropped Forged Steel	Injector Type
		Fuel Supply Line - in (mm)
Engine Governing		Fuel Return Line - in (mm)
Governor	Electronic	
Frequency Regulation (Steady State)	±0.25%	Engine Electrical System
		System Voltage
Lubrication System		Battery Charger Alternator
Oil Pump Type	Gear	Battery Size
Oil Filter Type	Cartridge	Battery Voltage

158.5 (150)

Cooling System Type Unit Mounted Radiator Water Pump Type Centrifugal Fan Type Pusher Fan Speed - RPM 710 Fan Diameter - in (mm) 88 (2,235) Fuel System Fuel Type Ultra Low Sulfur Diesel #2 ASTM **Fuel Specifications** Fuel Filtering (Microns) 10 (Final Filters) Fuel Inject Pump Make Mechanical Fuel Pump Type Engine Driven Gear Injector Type Mitsubishi PS8 Type x 2

24 VDC
Standard
See Battery Index 0161970SBY
(4) - 12 VDC
Negative

0.75" NPT (19.0) 0.75" NPT (19.0)

ALTERNATOR SPECIFICATIONS

Crankcase Capacity - qt (L)

Standard Model	K2112064N22	Standard Excitation
Poles	4	Bearings
Field Type	Rotating	Coupling
Insulation Class - Rotor	H	Load Capacity- Stand
Insulation Class - Stator	Н	Prototype Short Circu
Total Harmonic Distortion	<5%	Voltage Regulator Ty
Telephone Interference Factor (TIF)	< 50	Regulation Accuracy

Standard Excitation	Permanent Magnet
Bearings	Single Sealed Cartridge
Coupling	Direct via Flexible Disc
Load Capacity- Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Analog
Regulation Accuracy (Steady State)	±0.5%

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OPERATING DATA

POWER RATINGS

	Standby		
Three-Phase 277/480 VAC @0.8pf	1,250 kW	Amps: 1,882	
Three-Phase 346/600 VAC @0.8pf	1,250 kW	Amps: 1,505	

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip				
277/480 VAC	30%			
K2112064N22	7,709			
K2268064N22	9,417			

FUEL CONSUMPTION RATES*

Fuel Pump Lift- ft (m)	
3 (1)	
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	
127 (479)	

Diesel - gph (Lph)				
Percent Load Standby				
25%	32.2 (122.0)			
50%	56.4 (213.0)			
75% 82.9 (314.0)				
100% 114.0 (432.0)				
* 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)	489 (1,851)	Coolant Flow	gpm (Lpm)	90 (341)
Coolant System Capacity	gal (L)	95 (360)	Coolant System Capacity	gal (L)	50 (189)
Heat Rejection to Coolant	BTU/hr (kW)	1,829,820 (536)			
Inlet Air- 40°C Cooling Package	scfm (m ³ /min)	66,100 (1,872)	Cooling Rating- Fuel Pump		Standby
Inlet Air- 50°C Cooling Package	scfm (m ³ /min)	70,800 (2,005)	Heat Rejected to Fuel	BTU/hr (kW)	10,098 (3.0)
Max. Operating Ambient Temp	°F (°C)	104 (40)			
Max Operating Ambient Temperature (Before Derate)	see Bulletin No	. 0199270SSD			
Maximum Additional Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)			

COMBUSTION AIR REQUIREMENTS

		Flow at Rated Power - scf	n (m ³ /min) 4,767 (135)		
ENGINE			EXHAUST		
		Standby			Standby
Rated Engine Speed	RPM	1,800	Exhaust Flow (Rated Output)	scfm (m ³ /min)	12,570 (356)
Horsepower at Rated kW**	hp	1,881	Max. Allowable Backpressure (Post	Turbo) inHg (kPa)	1.7 (5.87)
Piston Speed	ft/min (m/min)	2,126 (648)	Exhaust Temp (Rated Output - Post	Silencer) °F (°C)	932 (500)
BMEP	psi (kPa)	276 (1,903)			

Standby

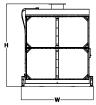
** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

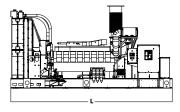
Deration - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards. Standby - See Bulletin 10000018933 Prime - See Bulletin 10000018926

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*



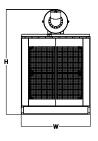


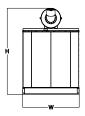
OPEN SET (Includes Exhaust Flex)

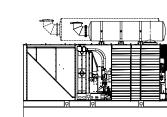
Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - Ibs (kg) (Enclosure Only)
-	215.7 (5,478) x 93.0 (2,362) x 115.1 (2,924)	26,045 (11,814)
1,250 (4,732)	243.0 (6,172) x 116.0 (2,945) x 132.1 (3,356)	Contact Factory
2,500 (9,464)	243.0 (6,172) x 116.0 (2,945) x 148.0 (3,759)	Contact Factory
	Capacity - Gal (L) - 1,250 (4,732)	Capacity - Gal (L) L x W x H - in (mm) - 215.7 (5,478) x 93.0 (2,362) x 115.1 (2,924) 1,250 (4,732) 243.0 (6,172) x 116.0 (2,945) x 132.1 (3,356)

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WEATHER PROTECTED ENCLOSURE

Run Time - Hours	Usable Capacity	L x W x H - in (mm)	0	· lbs (kg) ire Only)
HOUIS	- Gal (L)		Steel	Aluminum
No Tank	-	244.0 (6,198) x 110.0 (2,791) x 184.0 (4,661)		
12	1,250 (4,732)	264.0 (6,698) x 110.0 (2,791) x 201.0 (5,093)	Contact Factory	Contact Factory
24	2,500 (9,464)	264.0 (6,698) x 110.0 (2,791) x 217.0 (5,499)		

LEVEL 1 SOUND ATTENUATED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - Ibs (kg) (Enclosure Only)		
			Steel	Aluminum	
No Tank	-	327.0 (8,306) x 119.0 (3,021) x 184.0 (4,674)			
12	1,250 (4,732)	330.0 (8,382) x 119.0 (3,021) x 206.3 (5,239)	Contact Factory	Contact Factory	
24	2,500 (9,464)	330.0 (8,382) x 119.0 (3,021) x 208.0 (5,284)			

LEVEL 2 SOUND ATTENUATED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - Ibs (kg) (Enclosure Only)		
			Steel	Aluminum	
No Tank	-	404.0 (10,268) x 262.0 (6,666) x 126.0 (3,209)			
12	1,250 (4,732)	404.0 (10,268) x 262.0 (6,666) x 140.0 (3,565)	Contact Factory	Contact Factory	
24	2,500 (9,464)	404.0 (10,268) x 262.0 (6,666) x 150.0 (3,819)			

* All measurements and weights 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.

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SPEC SHEET