EPA Certified Stationary Emergency

Standby Power Rating

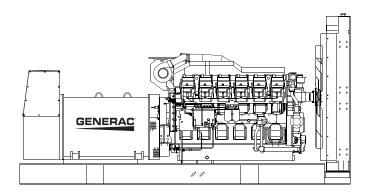
1,250 kW, 1,563 kVA, 60 Hz

Prime Power Rating*

1,125 kW, 1,406 kVA, 60 Hz



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



Codes and Standards

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





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



CSA C22.2



BS5514 and DIN 6271



SAE J1349



NFPA 37, 70, 99, 110



NEC700, 701, 702, 708



NEMA ICS10, MG1, 250, ICS6,



ANSI C62.41



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

Powering a Smarter World

For over 65 years, Generac has been at the forefront of power generation, pioneering innovative solutions and unparalleled manufacturing excellence. At the heart of our reputation for superior quality lies our commitment to meticulously designing and manufacturing key components of our generators—ranging from alternators and enclosures to base tanks, control systems, and cutting-edge communications software.

Generac's gensets stand out for their unparalleled versatility and reliability. Engineered to offer a wide range of options and configurations, they are tailored to meet the unique demands of virtually any application, seamlessly adapting to its complexity. Our commitment to reliability drives us to globally source only the most dependable engines, selected through stringent criteria for optimal performance under the toughest industrial conditions.

Beyond the sale, Generac's dedication to our customers extends to comprehensive service support, for peace of mind and reliability long after your purchase. Our commitment is to not only provide state-of-the-art power solutions but also enduring success and satisfaction of our customers through ongoing support and service excellence.

MD1250 | 49.0 L | 1,250 kW

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
- 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 ShutdownsNot 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 VoltageFrequency

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

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

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

ENGINEERED OPTIONS

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)

WARRANTY (Standby Gensets Only)

- · 2 Year Extended Limited Warranty
- · 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
- 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

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
- 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
- · AC/DC Light Kit
- Enclosure Heater

TANKS

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

MD1250 | 49.0 L | 1,250 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

APPLICATION AND ENGINEERING DATA

GENERAC* INDUSTRIAL POWER

ENGINE SPECIFICATIONS

General

Make	Mitsubishi
Model	S12R-Y2PTAW-1
EPA Emissions Compliance	Tier 2
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	12
Туре	4 Cycle - V12
Displacement - in ³ (L)	2,992 (49.0)
Bore - in (mm)	6.69 (170)
Stroke - in (mm)	7.09 (180)
Compression Ratio	14.5:1
Intake Air Method	Turbocharged/Intercooled
Cylinder Head	4-Valve
Piston Type	Aluminum
Crankshaft Type	Dropped Forged Steel

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear Driven
Oil Filter Type	Cartridge
Crankcase Capacity - qt (L)	158.5 (150)

Cooling System

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
Fuel Specifications	ASTM
Fuel Filtering (Microns)	10 (Final Filters)
Fuel Inject Pump Make	Mechanical
Fuel Pump Type	Engine Driven Gear
Injector Type	Mitsubishi PS8 Type x 2
Fuel Supply Line - in (mm)	0.75" NPT (19.0)
Fuel Return Line - in (mm)	0.75" NPT (19.0)

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	K2112064N22
Poles	4
Field Rype	Rotating
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
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Analog
Regulation Accuracy (Steady State)	±0.5%

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



OPERATING DATA

POWER RATINGS

	Sta	ndby
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% 30.0 (113.6)

50% 50.3 (190.4)

75% 72.9 (275.9)

100% 97.7 (369.8)

COOLING

Cooling Rating - Jacket Water	r	Standby
Coolant Flow	gpm (Lpm)	489 (1,851)
Coolant System Capacity	gal (L)	95 (360)
Heat Rejection to Coolant	BTU/hr (kW)	1,829,820 (536)
Inlet Air- 40°C Cooling Package	scfm (m³/min)	66,100 (1,872)
Inlet Air- 50°C Cooling Package	scfm (m³/min)	70,800 (2,005)
Maximum Operating Ambient Temperature	°F (°C)	104 (40)
Maximum Operating Ambient Temperature (Before Derate)	see Bulletin No.	0199270SSD
Maximum Additional Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)

Cooling Rating - Aftercooler		Standby
Coolant Flow	gpm (Lpm)	90 (341)
Coolant System Capacity	gal (L)	50 (189)
Cooling Rating- Fuel Pump		Standby
Heat Rejected to Fuel	BTU/hr (kW)	10,098 (3.0)
	, ,	, ,

COMBUSTION AIR REQUIREMENTS

Standby/Demand Response
Flow at Rated Power - scfm (m³/min) 4,767 (135)

ENGINE

		Standby
Rated Engine Speed	rpm	1,800
Horsepower at Rated kW**	hp	1,881
Piston Speed	ft/min (m/min)	2,126 (648)
BMEP	psi (kPa)	276 (1,903)

** See "Emissions Data Sheet" for	for maximum	bHP :	for EPA	and SCAQMD	permittin	ıg
purposes.						

EXHAUST

		Standby
Exhaust Flow (Rated Output)	scfm (m³/min)	12,570 (356)
Maximum Allowable Back Pressure (Post Turbo)	in H2O (kPa)	1.7 (5.87)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	932 (500)

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

Please contact a Generac Power Systems Industrial Ottomotores CAT® Dealer for additional details. All performance ratings in accordance with BS5514 and DIN6271 standards..

Standby - See Bulletin 10000018933 • Prime - See Bulletin 10000018926

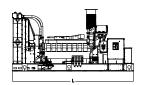
^{*}Fuel supply installation must accommodate fuel consumption rates at 100% load.

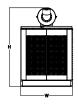
EPA Certified Stationary Emergency

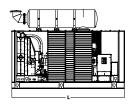
GENERAC INDUSTRIAL POWER

DIMENSIONS AND WEIGHTS*

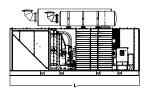




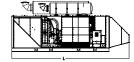












OPEN SET (Includes Exhaust Flex)

Run Time Hours	Usable Capacity Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	_	215.7 (5,478) x 93.0 (2,362) x 115.1 (2,924)	26,045 (11,814)
12	1,250 (4,732)	243.0 (6,172) x 116.0 (2,945) x 132.1 (3,356)	Contact Factory
24	2,500 (9,464)	243.0 (6,172) x 116.0 (2,945) x 148.0 (3,759)	Contact Factory

WEATHER PROTECTED ENCLOSURE

Run Time Hours	Usable Capacity Gal	L x W x H - in (mm)		lbs (kg) ire Only
Hours	(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
24	2,500 (9,464)	264.0 (6,698) x 110.0 (2,791) x 217.0 (5,499)	Contact	1 actory

LEVEL 1 SOUND ATTENUATED ENCLOSURE

Run Time	Usable Capacity Gal	L x W x H - in (mm)	Weight - Enclosu	
Hours	(L)	` '	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
24	2,500 (9,464)	330.0 (8,382) x 119.0 (3,021) x 208.0 (5,284)	Oontact	1 actory

LEVEL 2 SOUND ATTENUATED ENCLOSURE

Run Time	Usable Capacity Gal	L x W x H - in (mm)	Weight - Enclosu	
Hours	(L)		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
24	2,500 (9,464)	404.0 (10,268) x 262.0 (6,666) x 150.0 (3,819)		,

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

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER			

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.