EPA Certified Stationary Emergency



Standby Power Rating

1,500 kW, 1,875 kVA, 60 Hz

Prime Power Rating*

1,350 kW, 1,688 kVA, 60 Hz





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

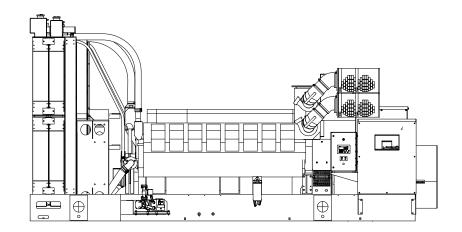


Image used for illustration purposes only

Codes and Standards

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





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





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.

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Level 1 Fan and Belt Guards (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- Hospital Grade Silencer
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)

FUEL SYSTEM

- · NPT 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 Multiple 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

Auto/Off/Manual Switch

Modbus® Protocol

Single Point Ground

Sealed Boards

Display

Power Factor

Rhino Coat™ - Textured Polyester Powder Coat Paint

Customizable Alarms, Warnings, and Events

Password Parameter Adjustment Protection

Alarm Information Automatically Annunciated on the

0.2 msec High Speed Remote Trending

Predictive Maintenance Algorithm

16 Channel Remote Trending

Full System Status Display Power Output (kW)

kW Hours, Total, and Last Run

Real/Reactive/Apparent Power

All Phase AC Voltage

All Phase Currents

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
- Electric 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)

- Oil Pressure
- Coolant Temperature
- Coolant Level
- **Engine Speed**
- **Battery 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

EPA Certified Stationary Emergency

GENERAC* INDUSTRIAL

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- O 50° Ambient Cooling System
- O Critical Grade Silencers (Open Set Only)
- O Hospital Grade Silencer (Enclosed Units Only)
- O Radiator Stone Guard (Open Set Only)
- O Air Cleaner with Crank Case Ventilation
- O Air Cleaner with Indicator
- O Engine Coolant Heater
- O Radiator Duct Flange

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

- 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)
- O Extended Factory Testing

ENCLOSURE

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

WARRANTY

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

CONTROL SYSTEM

- NFPA110 Level I and II (Programmable) 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
- 10A Engine Run Relay
- Low Coolant Level Indication
- O 90% Alarm High Fuel Program

FUEL TANKS (Size on Last Page)

- O 12 Hour Run Time
- O 24 Hour Run Time

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant Heater Ball Valves
- O Fluid Containment Pan
- Oil Heater

ALTERNATOR SYSTEM

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

CONTROL SYSTEM

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

GENERATOR SET

- Special Testing
- O 12 VDC Enclosure Lighting Kit

ENCLOSURE

- Motorized Dampers
- O Enclosure Heaters (with Motorized Dampers Only)
- $\ \, {\rm O} \, \, {\rm Door} \, \, {\rm Open} \, \, {\rm Alarm} \, \, {\rm Horn} \, \,$

FUEL TANKS

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

SD1500 | 65.4L | 1,500 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

-	`	_		_		ı
-	-	Δ	n	Δ	ra	

Governor

Make	Mitsubishi
EPA Emissions Compliance	Tier 2
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	16
Туре	4 Cycle
Displacement - L (in ³)	3,989 (65.4)
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	

Proact2 Isochronous

 $\pm 0.25\%$

Gear

Cartridge

212 (200)

Cooling System

Cooling System Type	Unit Mounted Radiator	
Water Pump Type	Centrifugal	
Fan Type	Pusher	
Fan Speed - RPM	710	
Fan Diameter - in (mm)	81 (2,057)	

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	
Engine Type	S16R-Y2PTAW-1	
Fuel Supply Line - in (mm)	3/4" NPT (19.0)	
Fuel Return Line - in (mm)	3/4" NPT (19.0)	

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

Frequency Regulation (Steady State)

Lubrication System

Crankcase Capacity - qt (L)

Oil Pump Type

Oil Filter Type

Standard Model	K1500064N22
Poles	4
Field Type	Rotating
Insulation Class - Rotor	Н
Insulation Class - Stator	Н
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	< 50

Standard Excitation	Permanent Magnet Excitation		
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%		

SD1500 | 65.4L | 1,500 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



OPERATING DATA

POWER RATINGS

		Standby
Three-Phase 277/480 VAC @0.8pf	1,500 kW	Amps: 2,255
Three-Phase 346/600 VAC @0.8pf	1,500 kW	Amps: 1,804

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip

	J 1
120/240 VAC 1Ø	30%
K1500064N22	4,500
K1788064N22	Contact Factory

FUEL CONSUMPTION RATES*

Fuel Pump Lift- ft (m)
3 (1)
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)
148 (560)

Diesel - gph (Lph)

Percent Load	Standby	
25%	36.5 (138)	
50%	66.0 (250)	
75%	97.3 (368)	
100%	133.0 (504)	

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

COOLING

Cooling Rating - Jacket \	Standby	
Coolant Flow	gpm (Lpm)	489 (1,851)
Coolant System Capacity	gal (L)	100 (389)
Heat Rejection to Coolant	BTU/hr (kW)	2,122,320 (622)
Inlet Air- 40°C Cooling Package	cfm (m³/min)	83,500 (2,365)
Inlet Air- 50°C Cooling Package	cfm (m³/min)	83,500 (2,365)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	see Bulletin No	o. 0199280SSD
Maximum Additional Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)

Cooling Rating - Aftero	Standby	
Coolant Flow	gpm (Lpm)	243 (920)
Coolant System Capacity	gal (L)	58 (220)
Heat Rejection to Coolant	BTU/hr (kW)	2,122,320 (622)

Cooling Rating - Fue	el Pump	Standby
Heat Rejected to Fuel	BTU/hr (kW)	18,808 (5.5)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power - cfm (m ³ /mi	n) 5,932 (168)

ENGINE			EXHAUST		
		Standby			Standby
Rated Engine Speed	RPM	1,800	Exhaust Flow (Rated Output)	cfm (m³/min)	14,665 (415)
Horsepower at Rated kW**	hp	2,346	Maximum Allowable Backpressure (Post Turbo)	inHg (kPa)	1.7 (5.87)
Piston Speed	ft/min (m/min)	2,126 (648)	Exhaust Temperature (Rated Output - Post Turbo)	°F (°C)	932 (500)
BMEP	psi (kPa)	259 (1,786)			

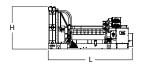
^{**} Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

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

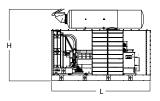
Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards. Standby - See Bulletin 0187500SSB

DIMENSIONS AND WEIGHTS*









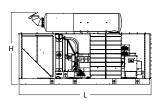
OPEN SET

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	231 (5,844) x 107 (2,712) x 117 (2,955)	35,078 (15,912)
12	1,525 (5,774)	265 (6,706) x 125 (3,158) x 140 (3,564)	41,778 (18,951)
24	3,050 (11,547)	265 (6,706) x 125 (3,158) x 156 (3,945)	44,178 (20,039)

WEATHER PROTECTED ENCLOSURE

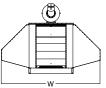
Run Time Usable - Hours Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)		
No Tank -		-	265 (6,706) x 120 (3,048) x 189 (4,793)	45,361 (20,576)
	12	1,525 (5,774)	270 (6,834) x 122 (3,234) x 194 (4,925)	48,381 (21,946)
	24	3,050 (11,547)	270 (6,834) x 122 (3,234) x 209 (5,306)	50,781 (23,034)

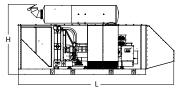




LEVEL 1 SOUND ATTENUATED ENCLOSURE

Run Time Capacity		Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
	No Tank	-	351 (8,915) x 120 (3,048) x 189 (4,793)	50,781 (23,034)
	12	1,525 (5,774)	351 (8,915) x 130 (3,288) x 191 (4,844)	51,344 (23,290)
	24	3.050 (11.547)	351 (8.915) x 130 (3.288) x 210 (5.309)	53.044 (24.061)





LEVEL 2 SOUND ATTENUATED ENCLOSURE

Run Time Usable - Hours Capacity - Gal (L)		L x W x H - in (mm)	Weight - lbs (kg)	
No Tank	-	426 (10,802) x 269 (6,819) x 192 (4,867)	49,859 (22,616)	
12	1,525 (5,774)	426 (10,802) x 269 (6,819) x 191 (4,844)	53,559 (24,294)	
24	3,050 (11,547)	426 (10,802) x 269 (6,819) x 201 (5,098)	55,259 (25,066)	

^{*} 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.

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