EPA Certified Stationary Emergency



Standby Power Rating

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

Prime Power Rating*

1,350 kW, 1,687 kVA, 60 Hz





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

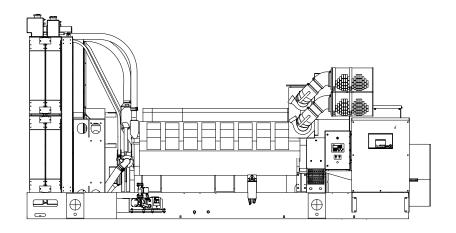


Image used for illustration purposes only

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. **EPA Certified Stationary Emergency**

GENERAC* INDUSTRIAL

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

- 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
- Motorized Main Line Circuit Breaker

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
- Rhino Coat™ Textured Polyester Powder Coat Paint

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)

- 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

- 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)

MD1500 | 65.4L | 1,500 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC* INDUSTRIAL POWER

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 Radiator Duct Flange
- O Engine Coolant Heater

ELECTRICAL SYSTEM

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

ALTERNATOR SYSTEM

- Alternator Upsizing
- O Anti-Condensation Heater

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 (Standby Gensets Only)

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

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

ALTERNATOR SYSTEM

- O 2nd Breaker System
- O 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

- O Special Testing
- O 12 VDC Enclosure Lighting Kit

ENCLOSURE

- O Motorized Dampers
- O Enclosure Heaters (with Motorized Dampers Only)
- O Door Open Alarm Switch

FUEL TANKS

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

MD1500 | 65.4L | 1,500 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency



APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

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Make	Mitsubishi
EPA Emissions Compliance	Tier 2
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	16
Туре	4 Cycle
Displacement - in ³ (L)	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	
Governor	Proact2 Isochronous

dovernor				I TUAULE I
Frequency	Regulation	(Steady	State)	+0.25%

Lubrication System

Oil Pump Type	Gear Driven	
Oil Filter Type	Cartridge	
Crankcase Capacity - qt (L)	200 (212)	

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

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
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%

MD1500 | 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
277/480 VAC	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 (479)

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 Water	•	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 N	o. 0199280SSD
Maximum Additional Radiator Backpressure	in H ₂ O (kPa)	0.5 (0.12)

Cooling Rating - Aftero	cooler	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 /min)	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 (5.9)
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

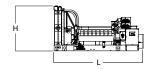
INDUSTRIAL DIESEL GENERATOR SET

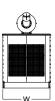
EPA Certified Stationary Emergency

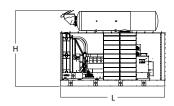


DIMENSIONS AND WEIGHTS*







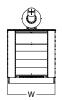


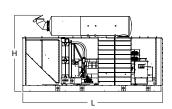
OPEN SET

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - Ibs (kg)
No Tank	-	230.1 (5,844) x 106.8 (2,712) x 116.4 (2,955)	35,078 (15,912)
12	1,525 (5,774)	264.0 (6,706) x 124.3 (3,158) x 140.3 (3,564)	41,778 (18,951)
24	3.050 (11.547)	264.0 (6,706) x 124.3 (3,158) x 155.3 (3,945)	44.178 (20.039)

WEATHER PROTECTED ENCLOSURE

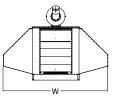
Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Steel Weight - lbs (kg)
No Tank	-	264.0 (6,706) x 120.0 (3,048) x 188.7 (4,793)	43,641 (19,795)
12	1,525 (5,774)	270 (6,834) x 122 (3,234) x 183.8 (4,923)	46,661 (21,165)
24	3,050 (11,547)	270 (6,834) x 122 (3,234) x 193.8 (4,923)	49,061 (22,254)

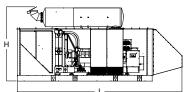




LEVEL 1 SOUND ATTENUATED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Steel Weight - Ibs (kg)
No Tank	-	351.0 (8,915) x 120.0 (3,048) x 188.7 (4,793)	49,061 (22,254)
12	1,525 (5,774)	351.0 (8,915) x 129.4 (3,288) x 183.8 (4,923)	48,743 (22,110)
24	3,050 (11,547)	351.0 (8,915) x 129.4 (3,288) x 193.8 (4,923)	50,443 (22,881)





LEVEL 2 SOUND ATTENUATED ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Steel Weight - Ibs (kg)
No Tank	-	425.3 (10,802) x 268.5 (6,819) x 191.6 (4,867)	46,150 (20,933)
12	1,525 (5,774)	425.3 (10,802) x 268.5 (6,819) x 183.8 (4,667)	49,850 (22,612)
24	3 050 (11 547)	425 3 (10 802) x 268 5 (6 819) x 193 8 (4 921)	51 550 (23 383)

* 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.