EPA Certified Stationary Emergency

Standby Power Rating

500 kW, 625 kVA, 60 Hz

Prime Power Rating* 450 kW, 563 kVA, 60 Hz



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



GENERAC

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



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41



IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

Powering Ahead

Generac Bi-Fuel™ generators start on diesel fuel and add natural gas as load is applied until the unit runs primarily on natural gas. Generac's Bi-Fuel generators are fully integrated solutions, not aftermarket conversions in the field. That means every component is specifically designed, engineered and factory-validated to work together. Generac Bi-Fuel generators have the added benefit of being EPA-compliant

RISK MITIGATION VIA FUEL REDUNDANCY

Because nobody can predict how long a power outage will last, many diesel-fueled standby power systems are sized for extended running times. Nevertheless, onsite diesel fuel supplies are limited, and infrastructure damage could make refueling difficult. Generac Bi-Fuel generators make the most of an onsite diesel fuel supply by running primarily on natural gas. That means less onsite diesel fuel is required and running times will be greatly extended compared to diesel-only solutions. And because the natural gas infrastructure tends not to be affected by the same conditions that lead to power outages, fuel reliability is improved.

LOWER TOTAL COST OF OWNERSHIP

Because natural gas costs less than diesel, fuel costs are significantly reduced over the long term. And since less onsite diesel fuel is required for long running times, installation, operational and maintenance costs are reduced.

SCALABILITY AS PART OF A MODULAR POWER SYSTEM

Generac Bi-Fuel generators can be configured as part of a Modular Power System (MPS)—connected via integrated paralleling with other Generac generators. This makes the system scalable, meaning there is no need to install more power than you need.

CODE COMPLIANCE

Generac Bi-Fuel generators meet the onsite fuel requirements for emergency systems as referenced in NEC700 and NFPA 110. Less onsite diesel fuel means easier permitting. And indoor fuel installations with capacity limits per NFPA or local codes become a viable option.

INDUSTRIAL BI-FUEL GENERATOR SET

EPA Certified Stationary Emergency

STANDARD FEATURES

ENGINE SYSTEM

- · Oil Drain Extension
- · Air Cleaner
- · Level 1 Fan and Belt Guards (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- · Critical Silencer (Enclosed Units Only)
- · Factory Filled Oil and Coolant

FUEL SYSTEM

- · Primary and Secondary Fuel Filter
- Fuel Line NPT Connection

COOLING SYSTEM

- · Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- · Factory-Installed Radiator
- 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
- · Amortisseur Winding
- Sealed Bearings
- · Full Load Capacity Alternator

GENERATOR SET

- · Internal Genset Vibration Isolation
- · Separation of Circuits High/Low Voltage
- . Separation of Circuits Multiple Breakers
- Wrapped Exhaust Piping (Enclosed Units Only)
- · Standard Factory Testing
- 2 Year Extended Limited Warranty (Standby Rated Units)
- 1 Year Extended Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Units Only)

ENCLOSURE (IF SELECTED)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors

GENERAC

- Upward Facing Discharge Hoods (Radiator and Exhaust)
- · Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ Textured Polyester Powder Coat Paint

FUEL TANKS (IF SELECTED)

- UL 142/ULC S601
- Double Wall
- Vents
- · Sloped Top
- Sloped Bottom
- Factory Pressure Tested (2 psi)
- Rupture Basin Alarm
- Fuel Level
- · Check Valve In Supply and Return Lines
- RhinoCoat™ Textured Polyester Powder Coat Paint
- Stainless Hardware

CONTROL SYSTEM



Digital G Paralleling Control Panel -Touchscreen

Program Functions

- · Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator

- · 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
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- · 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
- Low Fuel Pressure
- 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)

SB500 | 15.2L | 500 kW

INDUSTRIAL BI-FUEL GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- o Air Filter Restriction Indicator
- o Radiator Stone Guard (Open Set Only)
- o Engine Coolant Heater
- o Flexible Fuel Line
- o Oil Heater

ELECTRICAL SYSTEM

- o 10A UL Listed Battery Charger
- o Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- o Anti-Condensation Heater

CIRCUIT BREAKER OPTIONS

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

GENERATOR SET

- Extended Factory Testing
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- o IBC Seismic Certification
- o 12 Position Load Center

ENCLOSURE

- o Level 0 Sound Attenuated
- o Level 1 Sound Attenuated
- o Level 2 Sound Attenuated
- Level 2 Sound Attenuated with Motorized Dampers
- o Steel Enclosure
- o Aluminum Enclosure
- o AC/DC Enclosure Light Kit
- o Door Open Alarm Horn
- o Enclosure Heater (with Motorized Dampers Only)

CONTROL SYSTEM

GENERAC

 NFPA 110 Compliant 21-Light Remote Annunciator

INDUSTRIAL

- o Remote Relay Assembly (8 or 16)
- o Oil Temperature Indicator with Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- o Remote Communication Modem
- o 10A Engine Run Relay
- o Ground Fault Annunciator
- o 100 dB Alarm Horn
- o 120 V GFCI and 240 Outlet

WARRANTY (STANDBY GENSETS ONLY)

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

ENGINEERED OPTIONS

ENGINE SYSTEM

Fluid Containment Pan

ALTERNATOR SYSTEM

o 3rd Breaker System

CONTROL SYSTEM

o Battery Disconnect Switch

GENERATOR SET

o Special Testing

FUEL TANKS

- Overfill Protection Valve
- o UL2085 Tank
- Stainless Steel Tank
- Special Fuel Tanks (MIDEQ and FL DEP/DERM, etc.)
- o Vent Extensions

SB500 | 15.2L | 500 kW

INDUSTRIAL BI-FUEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC* INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

Make Perkins Make Perkins Make Perkins Mater Pump Type Centrifugal Type, Belt-Driven Fan Type Pusher Fan Speed - RPM 1,656 Fan Diameter - in (mm) 36.5 (927) Fan Diameter - in (mm) 36.5 (927) Fan Diameter - in (mm) 36.5 (927) Fuel System Displacement - in ³ (L) 927.56 (15.2) Bore - in (mm) 5.39 (137) Bore - in (mm) 6.73 (171) Compression Ratio 16.0:1 Intake Air Method Turbocharged/Aftercooled Cylinder Head 4-Valve Injector Type MEUI Piston Type Aluminum Crankshaft Type I-Beam Section Fuel System Displacement - in (mm) 0.5 (12.7) NPT Fuel Required Natural Gas Pressure - psi (kPa) 1 (6.89) Maximum Required Natural Gas Pressure - psi (kPa) 1 (6.89) Maximum Required Nolume of Natural Gas Needed - cfm (m3/min) Frequency Regulation (Steady State) ± 0.25% Engine Electroic System Dil Pump Type Gear Dil Pump Type Gear Dil Pump Type Full-Flow Battery Charger Alternator Standard Dil Filler Type Full-Flow Battery Voltage (2)-12 VDC Battery Voltage (2)-12 VDC	ENGINE SPECIFICATIONS		Cooling System	
Fan Type	General		Cooling System Type	Closed Recovery
EPA Emissions Compliance Stationary Emergency EPA Emissions Reference See Emission Data Sheet Cylinder # 6 Type In-line Displacement - in³ (L) 927.56 (15.2) Bore - in (mm) 5.39 (137) Stroke - in (mm) 6.73 (171) Intake Air Method Turbocharged/Aftercooled Cylinder Head 4-Valve Piston Type Aluminum Crankshaft Type I-Beam Section Engine Governing Governor Electronic Isochronous Frequency Regulation (Steady State) ± 0.25% Lubrication System See Emission Data Sheet Fan Speed - RPM 1,656 Fan Diameter - in (mm) 36.5 (927) Fuel System Fuel System Fuel System Fuel Type Ultra Low Sulfur Diesel Fuel #2 Fuel Specifications ASTM Fuel Type Ultra Low Sulfur Diesel Fuel #2 Fuel Specifications Primary 10- Secondary 2 Fuel Inject Pump Make Electronic Injector Type MEUI Engine Type Pre-Combustion Fuel Supply Line - in (mm) 0.5 (12.7) NPT Fuel Return Line - in (mm) 0.5 (12.7) NPT Required Natural Gas Pressure - psi (kPa) 1 (6.89) Maximum Required Volume of Natural Gas Needed - cfm (m3/min) Fingine Electrical System System Voltage 24 VDC Battery Charger Alternator Standard Battery Charger Alternator Standard Battery Voltage (2)-12 VDC			Water Pump Type	Centrifugal Type, Belt-Driven
EPA Emissions Reference Cylinder # 6 Type In-line Displacement - in³ (L) Stroke - in (mm) 5.39 (137) Stroke - in (mm) 6.73 (171) Compression Ratio Infake Air Method Cylinder Head 4-Valve Piston Type Aluminum Crankshaft Type Engine Governing Governor Electronic Isochronous Frequency Regulation (Steady State) Lubrication System See Emission Data Sheet Fan Diameter - in (mm) 36.5 (927) Fuel System Fuel System Fuel Type Ultra Low Sulfur Diesel Fuel #2 Fuel Specifications ASTM Fuel Flitering (Microns) Primary 10- Secondary 2 Fuel Inject Pump Make Electronic Injector Type MEUI Engine Type Pre-Combustion Fuel Supply Line - in (mm) 0.5 (12.7) NPT Fuel Required Natural Gas Pressure - psi (kPa) 1 (6.89) Maximum Required Volume of Natural Gas Needed - cfm (m3/min) Engine Electrical System System Voltage System Voltage Battery Charger Alternator Standard Oil Filter Type Full-Flow Franciscase Oil Capacity - qt (L) Fuel System See Battery Index 0161970SBY Battery Voltage (2)-12 VDC	Make	Perkins	Fan Type	Pusher
Cylinder # 6 Type In-line Displacement - in³ (L) 927.56 (15.2) Bore - in (mm) 5.39 (137) Stroke - in (mm) 6.73 (171) Compression Ratio 16.0:1 Intake Air Method Turbocharged/Aftercooled Cylinder Head 4-Valve Piston Type Aluminum Crankshaft Type I-Beam Section Engine Governing Governor Electronic Isochronous Frequency Regulation (Steady State) Lubrication System Fuel System Fuel Type Ultra Low Sulfur Diesel Fuel #2 Fuel Specifications ASTM Fuel Filtering (Microns) Primary 10- Secondary 2 Fuel Inject Pump Make Electronic Injector Type MEUI Engine Type Per-Combustion Fuel Supply Line - in (mm) 0.5 (12.7) NPT Fuel Return Line - in (mm) 0.5 (12.7) NPT Fuel Return Line - in (mm) 0.5 (12.7) NPT Fuel Reduired Natural Gas Pressure - psi (kPa) 1 (6.89) Maximum Required Volume of Natural 45 (1.27) Gas Needed - cfm (m³/min) Engine Electrical System System Voltage 24 VDC Battery Charger Alternator Standard Dil Filter Type Full-Flow Full-Flow Full-Flow France See Battery Index 0161970SBY Battery Voltage See Battery Index 0161970SBY Battery Voltage (2)—12 VDC	EPA Emissions Compliance	Stationary Emergency		1,656
Fuel System Fuel System Fuel System Fuel Type Ultra Low Sulfur Diesel Fuel #2 Stroke - in (mm) 5.39 (137) Fuel Specifications ASTM Compression Ratio 16.0:1 Fuel Specifications ASTM Fuel Filtering (Microns) Primary 10- Secondary 2 Fuel Inject Pump Make Electronic Injector Type Aluminum Pred Redured Supply Line - in (mm) Governor Fuel Return Line - in (mm) Governor Fuel Return Line - in (mm) Fuel Return Line - in (mm) Fuel Return Line - in (mm) Fuel Redurned Volume of Natural Gas Needed - cfm (m3/min) Fuel System System Voltage System Voltage 24 VDC Battery Charger Alternator Standard Battery Size See Battery Index 0161970SBY Battery Voltage C2-12 VDC	PA Emissions Reference	See Emission Data Sheet	Fan Diameter - in (mm)	36.5 (927)
Displacement - in³ (L) 927.56 (15.2) Bore - in (mm) 5.39 (137) Stroke - in (mm) 6.73 (171) Compression Ratio 16.0:1 Intake Air Method Turbocharged/Aftercooled Diston Type Aluminum Crankshaft Type I-Beam Section Engine Governing Sovernor Electronic Isochronous Frequency Regulation (Steady State) Lubrication System Diff Pump Type Gear Diff Pump Type Gear Diff Pump Type Full-Flow Engine Governing System Voltage 24 VDC Battery Size See Battery Index 0161970SBY Battery Voltage (2)–12 VDC	Cylinder #	6		
Fuel Type Ultra Low Sulfur Diesel Fuel #2 Stroke - in (mm) 6.73 (171) Compression Ratio 16.0:1 Turbocharged/Aftercooled Fuel Hillering (Microns) Primary 10- Secondary 2 Fuel Inject Pump Make Electronic Injector Type MEU Engine Type Pre-Combustion Fuel Supply Line - in (mm) 0.5 (12.7) NPT Fuel Return Line - in (mm) 0.5 (12.7) NPT Fuel Return Line - in (mm) 0.5 (12.7) NPT Fuel Required Natural Gas Pressure - psi (kPa) 1 (6.89) Maximum Required Volume of Natural Gas Needed - cfm (m3/min) Engine Electrical System System Voltage 24 VDC Battery Charger Alternator Standard Battery Charger Alternator Standard Battery Size See Battery Index 0161970SBY Battery Voltage (2)—12 VDC	ype	In-line	Fuel System	
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Compression Ratio 16.0:1 Intake Air Method Turbocharged/Aftercooled Oylinder Head 4—Valve Diston Type Aluminum Crankshaft Type I-Beam Section Engine Governing Governor Frequency Regulation (Steady State) Lubrication System Lubrication System Cear Dil Pump Type Gear Dil Filter Type Fuel Filtering (Microns) Fuel Rittering (Microns) Fuel Inject Pump Make Electronic Injector Type MEUI Engine Type Pre-Combustion Fuel Supply Line - in (mm) 0.5 (12.7) NPT Fuel Return Line - in (mm) 0.5 (12.7) NPT Fuel Required Natural Gas Pressure - psi (kPa) 1 (6.89) Maximum Required Volume of Natural Gas Needed - cfm (m3/min) System System System System Voltage Dil Filter Type Full-Flow Full-Flow Fuel Supply Line - in (mm) Fuel Supply Line - in (mm) Fuel Return Line - in (mm) Fuel Retur	Bore - in (mm)	5.39 (137)		Ultra Low Sulfur Diesel Fuel #2
Turbocharged/Aftercooled Cylinder Head 4-Valve Diston Type Aluminum Crankshaft Type I-Beam Section Engine Governing Governor Frequency Regulation (Steady State) Lubrication System Lubrication System Lubrication System Library Liprary Lipr	Stroke - in (mm)	6.73 (171)	Fuel Specifications	ASTM
Cylinder Head 4–Valve Injector Type MEU Fiston Type Aluminum Engine Governing Injector Type Injector Injection In	Compression Ratio	16.0:1	Fuel Filtering (Microns)	Primary 10- Secondary 2
Piston Type Aluminum Engine Type Pre-Combustion Crankshaft Type I-Beam Section Fuel Supply Line - in (mm) 0.5 (12.7) NPT Fuel Return Line - in (mm) 0.5 (12.7) NPT Fuel Return Line - in (mm) 0.5 (12.7) NPT Fuel Return Line - in (mm) 0.5 (12.7) NPT Required Natural Gas Pressure - psi (kPa) 1 (6.89) Maximum Required Volume of Natural 45 (1.27) Gas Needed - cfm (m3/min) Frequency Regulation (Steady State) ±0.25% Engine Electrical System System Voltage 24 VDC Dil Pump Type Gear Battery Charger Alternator Standard Dil Filter Type Full-Flow Dil Capacity - qt (L) 47.55 (45) Battery Voltage (2)—12 VDC	ntake Air Method	Turbocharged/Aftercooled	Fuel Inject Pump Make	Electronic
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Fuel Return Line - in (mm) 0.5 (12.7) NPT Required Natural Gas Pressure - psi (kPa) 1 (6.89) Maximum Required Volume of Natural 45 (1.27) Gas Needed - cfm (m3/min) Frequency Regulation (Steady State) ±0.25% Engine Electrical System System Voltage 24 VDC Dil Pump Type Gear Battery Charger Alternator Standard Battery Size See Battery Index 0161970SBY Battery Voltage (2)–12 VDC	Piston Type	Aluminum	Engine Type	Pre-Combustion
Required Natural Gas Pressure - psi (kPa) 1 (6.89) Maximum Required Volume of Natural 45 (1.27) Gas Needed - cfm (m3/min) Electronic Isochronous Frequency Regulation (Steady State) ±0.25% Engine Electrical System System Voltage 24 VDC Dil Pump Type Gear Battery Charger Alternator Standard Dil Filter Type Full-Flow Crankcase Oil Capacity - qt (L) 47.55 (45) Engine Electrical System System Voltage 24 VDC Battery Voltage See Battery Index 0161970SBY Battery Voltage (2)—12 VDC	Crankshaft Type	I-Beam Section	Fuel Supply Line - in (mm)	0.5 (12.7) NPT
Maximum Required Volume of Natural Gas Needed - cfm (m3/min) Frequency Regulation (Steady State) ±0.25% Engine Electrical System System Voltage 24 VDC Dil Pump Type Gear Dil Filter Type Full-Flow Crankcase Oil Capacity - qt (L) 47.55 (45) Maximum Required Volume of Natural 45 (1.27) Gas Needed - cfm (m3/min) Engine Electrical System System Voltage 24 VDC Battery Charger Alternator Standard Battery Size See Battery Index 0161970SBY Battery Voltage (2)—12 VDC			Fuel Return Line - in (mm)	0.5 (12.7) NPT
Gas Needed - cfm (m3/min) Frequency Regulation (Steady State) ±0.25% Lubrication System System Voltage 24 VDC Dil Pump Type Gear Dil Filter Type Full-Flow Crankcase Oil Capacity - qt (L) 47.55 (45) Gas Needed - cfm (m3/min) Engine Electrical System System Voltage 24 VDC Battery Charger Alternator Standard Battery Size See Battery Index 0161970SBY Battery Voltage (2)–12 VDC	Engine Governing		Required Natural Gas Pressure - psi (kP	a) 1 (6.89)
Frequency Regulation (Steady State) ±0.25% Lubrication System System Voltage 24 VDC Dil Pump Type Gear Battery Charger Alternator Standard Dil Filter Type Full-Flow Battery Size See Battery Index 0161970SBY Crankcase Oil Capacity - qt (L) 47.55 (45) Battery Voltage (2)—12 VDC			Maximum Required Volume of Natural	45 (1.27)
Engine Electrical System Lubrication System System Voltage 24 VDC Dil Pump Type Gear Battery Charger Alternator Standard Dil Filter Type Full-Flow Battery Size See Battery Index 0161970SBY Crankcase Oil Capacity - qt (L) 47.55 (45) Battery Voltage (2)—12 VDC	Governor	Electronic Isochronous	Gas Needed - cfm (m3/min)	
System Voltage 24 VDC Dil Pump Type Gear Battery Charger Alternator Standard Dil Filter Type Full-Flow Battery Size See Battery Index 0161970SBY Crankcase Oil Capacity - qt (L) 47.55 (45) Battery Voltage (2)—12 VDC	Frequency Regulation (Steady State)	±0.25%	Engine Electrical System	
Oil Pump Type Gear Battery Charger Alternator Standard Oil Filter Type Full-Flow Battery Size See Battery Index 0161970SBY Crankcase Oil Capacity - qt (L) 47.55 (45) Battery Voltage (2)—12 VDC	Lubrication System		System Voltage	24 VDC
Oil Filter Type Full-Flow Battery Size See Battery Index 0161970SBY Crankcase Oil Capacity - qt (L) 47.55 (45) Battery Voltage (2)—12 VDC				
Crankcase Oil Capacity - qt (L) 47.55 (45) Battery Voltage (2)–12 VDC	1 31			
Jankoaso on dapacity - qt (L) = +1.50 (+5)				
	Crankcase Oil Capacity - qt (L)	47.55 (45)	Ground Polarity	(2)–12 VDC Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0500124Y23
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 Excitation
Bearings	Single Sealed Cartridge
Coupling	Direct via Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

SB500 | 15.2L | 500 kW

INDUSTRIAL BI-FUEL GENERATOR SET

EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

 Standby

 Three-Phase 120/208 VAC @0.8pf
 500 kW/625 kVA
 Amps: 1,735

 Three-Phase 120/208 VAC @0.8pf
 500 kW/625 kVA
 Amps: 1,504

 Three-Phase 277/480 VAC @0.8pf
 500 kW/625 kVA
 Amps: 752

 Three-Phase 346/600 VAC @0.8pf
 500 kW/625 kVA
 Amps: 601

MOTOR STARTING CAPABILITIES (SKVA)

skVA vs. Voltage Dip

277/480 VAC	30%	208/240 VAC	30%
K0500124Y23	1,020	K0600124Y23	1,120
K0600124Y23	1,560	K0792124Y23	2,130
K0832124Y23	2,800	K0832124Y23	2,090

FUEL CONSUMPTION RATES*

Fuel Pump Lift - ft (m)	
12 (3.7)	

Total Fuel Pump Flow (Combustion + Return) - gph (Lph) 121 (457)

Diesel - gph (Lph)

GENERAC

Percent Load	Standby
25%	10.5 (39.7)
50%	19.5 (73.8)
75%	23.7 (89.7)
100%	31.2 (118.1)

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

COOLING

		Standby
Coolant Flow	gpm (Lpm)	114.1 (432)
Coolant System Capacity	gal (L)	13 (49)
Heat Rejection to Coolant	BTU/hr (kW)	1,198,080
Air Flow (Fan Air Flow Across Radiator)	cfm (m³/min)	30,582 (866)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No.	0199270SSD
Maximum Additional Radiator Backpressure	in H20 (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

Standby

Flow at Rated Power - cfm (m³/min) 1,483 (42)

ENGINE

EXHAUST

		Standby
Rated Engine Speed	RPM	1,800
Horsepower at Rated kW**	hp	835
Piston Speed	ft/min (m/min)	2,020 (616)
BMEP	psi	366 (2.523)

		•
Exhaust Flow (Rated Output)	cfm (m³/min)	3,401 (96.3)
Maximum Allowable Backpressure (Post Silencer)	inHg (kPa)	2.94 (9.96)
Exhaust Temperature (Rated Output)	°F (°C)	1,047 (564)

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 BS5514 and DIN6271 standards.

Standby - See Bulletin 0187500SSB

Prime - See Bulletin 0187510SSB

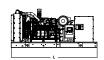
Standby

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

INDUSTRIAL BI-FUEL GENERATOR SET

EPA Certified Stationary Emergency

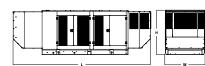
DIMENSIONS AND WEIGHTS*

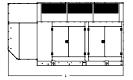














OPEN SET

Run Time - Hours	Usable Capacity - gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	154.4 (3,923) x 71 (1,803) x 67 (1,702)	10,580 (4,799)
10	334	158.5 (4,026) x 71 (1,803) x 81 (2,057)	12,255 (5,559)
32	1,001	158.5 (4,026) x 71 (1,803) x 81 (2,057)	13,180 (6,228)
32	1,001	228 (5,791) x 71 (1,803) x 92 (2,337)	13,730 (6,228)
64	2,002	290 (7,366) x 71 (1,803) x 103 (2,616)	15,430 (6,999)

LEVEL O SOUND ATTENUATED ENCLOSURE

R	un Time	Usable Capacity -	L x W x H - in (mm)	Weight - Enclosi	· lbs (kg) ıre Only
	- Hours	Gal (L)	,	Steel	Aluminum
1	No Tank	-	207.4 (5,268) x 71 (1,803) x 80 (2,032)		
_	10	334	207.4 (5,268) x 71 (1,803) x 80 (2,032)		
	32	1,001	207.4 (5,268) x 71 (1,803) x 80 (2,032)	1,999 (907)	869 (394)
_	32	1,001	228 (5,791) x 71 (1,803) x 105 (2,667)		
	64	2.002	290 (7,366) x 71 (1,803) x 116 (2,946)		

LEVEL 1 SOUND ATTENUATED ENCLOSURE

Run Time	Usable Capacity -	L x W x H - in (mm)		· lbs (kg) ıre Only
- Hours	Gal (L)	, ,	Steel	Aluminum
No Tank	-	247.5 (6,285) x 71 (1,803) x 80 (2,032)		_
10	334	247.5 (6,285) x 71 (1,803) x 80 (2,032)		
32	1,001	247.5 (6,285) x 71 (1,803) x 80 (2,032)	2,782 (1,262)	1,291 (586)
32	1,001	247.5 (6,285) x 71 (1,803) x 80 (2,032)		
64	2.002	290 (7,366) x 71 (1,803) x 116 (2,946)		

LEVEL 2 SOUND ATTENUATED ENCLOSURE

Run Time Capacity - - Hours Gal (1)		L x W x H - in (mm)	Weight - Ibs (kg) Enclosure Only	
- Hours	Gal (L)	, ,	Steel	Aluminum
No Tank	-	207.4 (5,268) x 71 (1,803) x 114 (2,899)		
10	334	207.4 (5,268) x 71 (1,803) x 114 (2,899)		
32	1,001	207.4 (5,268) x 71 (1,803) x 114 (2,899)	3,330 (1,510)	1,522 (692)
32	1,001	228 (5,791) x 71 (1,803) x 139 (3,531)		
64	2,002	290 (7,366) x 71 (1,803) x 150 (3,810)		

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

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