

**Standby Power Rating**  
 60 kW, 75 kVA, 60 Hz

**Prime Power Rating\***  
 54 kW, 68 kVA, 60 Hz

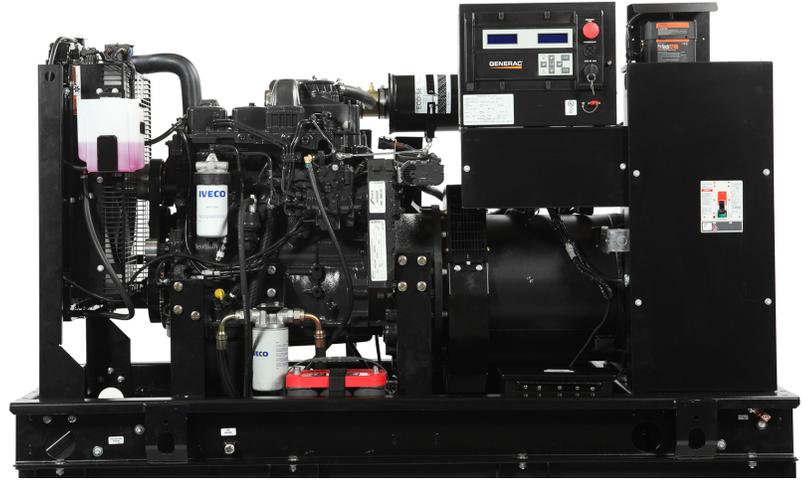


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\*EPA Certified Prime ratings are not available in the US or its Territories

## Codes and Standards

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

-   UL2200, UL6200, UL1236, UL489, UL142
-   CSA C22.2, 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
-   IBC 2009, CBC 2010, 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 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**

- Engine Block Heater
- 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)

**Fuel System**

- Fuel Lockoff Solenoid
- Primary Fuel Filter

**Cooling System**

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension

**Electrical System**

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

**ALTERNATOR SYSTEM**

- UL2200 GENprotect™
- 12 Leads (3-Phase, Non 600V)
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Auxiliary Voltage Regulator Power Winding
- Brushless Excitation
- Sealed Bearing
- Rotor Dynamically Spin Balanced
- Amortisseur Winding
- Full Load Capacity Alternator
- Protective Thermal Switch

**GENERATOR SET**

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)

**ENCLOSURE (If Selected)**

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- 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 Construction
- Normal and Emergency 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 Steel Hardware

**CONTROL SYSTEM**



**Digital H Control Panel- Dual 4x20 Display**

**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)
- NFPA 110 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
- 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)

EPA Certified Stationary Emergency

## CONFIGURABLE OPTIONS

### ENGINE SYSTEM

- Oil Heater
- Industrial Silencer
- Level 1 Fan and Belt Guards (Enclosed Units Only)
- Critical Grade Silencer (Open Set Only)
- Air Filter Restriction Indication
- Radiator Stone Guard (Open Set Only)

### FUEL SYSTEM

- NPT Flexible Fuel Line

### ELECTRICAL SYSTEM

- 10A UL Listed Battery Charger
- Battery Warmer

### ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating
- Permanent Magnet Excitation

### GENERATOR SET

- 8 Position Load Center
- Extended Factory Testing (3-Phase Only)

### CIRCUIT BREAKER OPTIONS

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

### ENCLOSURE

- Weather Protected Enclosure
- Level 1 Sound Attenuated
- Level 2 Sound Attenuated
- Level 2 Sound Attenuated with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- AC/DC Enclosure Lighting Kit
- Door Open Alarm Switch
- Pad Vibration Isolation
- Enclosure Heater (with Motorized Dampers Only)
- IBC Seismic Certification

### WARRANTY (Standby Gensets Only)

- 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

- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Oil Temperature Indication and 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)
- E-Stop Terminal
- Remote Communication - Modem
- 10A Run Relay
- Ground Fault Annunciator
- Damper Alarm Contacts (with Motorized Dampers Only)
- 120V GCFI and 240V Outlets
- 100 dB Alarm Horn

### FUEL TANKS (Size On Last Page)

- 8 in (203.2 mm) Fill Extension
- 13 in (330.2 mm) Fill Extension
- Emergency Vents
- 12 ft Vent Extensions
- Overfill Protection Valve
- Fuel Drop Tube
- 5 Gallon Spill Box
- 5 Gallon Spill Box Return Hose
- Tank Risers
- Fire Rated Stainless Steel Fuel Hose
- 90% High Fuel Alarm

## ENGINEERED OPTIONS

### ENGINE SYSTEM

- Coolant Heater Ball Valves
- Fluid Containment Pan

### CONTROL SYSTEM

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

### ALTERNATOR SYSTEM

- 3rd Breaker System

### TANKS

- UL2085 Tank
- Stainless Steel Tanks

# SD060 | 4.5L | 60 kW

## INDUSTRIAL DIESEL GENERATOR SET

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### APPLICATION AND ENGINEERING DATA

#### ENGINE SPECIFICATIONS

##### General

Make	Iveco/FPT
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	4
Type	In-Line
Displacement - in <sup>3</sup> (L)	274.6 (4.5)
Bore - in (mm)	4.1 (105)
Stroke - in (mm)	5.2 (132)
Compression Ratio	17.5:1
Intake Air Method	Turbocharged
Cylinder Head	2 Valve
Piston Type	Aluminum
Crankshaft Type	Forged Steel

##### Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.25%

##### Lubrication System

Oil Pump Type	Gear Driven
Oil Filter Type	Full-Flow Cartridge
Crankcase Capacity - qt (L)	14.4 (13.6)

##### Cooling System

Cooling System Type	Closed
Water Pump Type	Belt Driven Centrifugal
Fan Type	Pusher
Fan Speed - RPM	2,538
Fan Diameter - in (mm)	26 (660)

##### Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications	ASTM
Fuel Filtering (Microns)	5
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line - in (mm)	0.5 (12.7) NPT
Fuel Return Line - in (mm)	0.5 (12.7) NPT

##### Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

#### ALTERNATOR SPECIFICATIONS

Standard Model	K0060124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase Only)
Telephone Interference Factor (TIF)	< 50

Standard Excitation	Brushless
Bearings	One Pre-Lubed and Sealed
Coupling	Direct via Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

# SD060 | 4.5L | 60 kW

## INDUSTRIAL DIESEL GENERATOR SET

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### OPERATING DATA

#### POWER RATINGS - DIESEL

		Standby
Single-Phase 120/240 VAC @1.0pf	60 kW	Amps: 250
Three-Phase 120/208 VAC @0.8pf	60 kW	Amps: 208
Three-Phase 120/240 VAC @0.8pf	60 kW	Amps: 180
Three-Phase 277/480 VAC @0.8pf	60 kW	Amps: 90
Three-Phase 346/600 VAC @0.8pf	60 kW	Amps: 72

#### MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip			
277/480 VAC	30%	208/240 VAC	30%
K0060124Y2	124	K0060124Y2	95
K0080124Y21	172	K0080124Y21	132
K0100124Y21	227	K0100124Y21	171

#### FUEL CONSUMPTION RATES\*

Fuel Pump Lift - ft (m)	Diesel - gph (Lph)	
	Percent Load	Standby
3 (1)	25%	1.4 (5.3)
	50%	2.7 (10.2)
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	75%	3.8 (14.4)
13.6 (51.5)	100%	4.8 (18.2)

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

#### COOLING

		Standby
Coolant Flow	gpm (Lpm)	32.7 (123.8)
Coolant System Capacity	gal (L)	4.5 (17.4)
Heat Rejection to Coolant	BTU/hr (kW)	123,000 (36.0)
Inlet Air	scfm (m <sup>3</sup> /hr)	6,360 (180)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Ambient Temperature (Before Derate)	See Bulletin No. 0199280SSD	
Maximum Additional Radiator Backpressure	in H <sub>2</sub> O (kPa)	0.5 (0.12)

#### COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power - scfm (m <sup>3</sup> /min)	247 (7.0)

#### ENGINE

		Standby
Rated Engine Speed	RPM	1,800
Horsepower at Rated kW**	hp	93
Piston Speed	ft/min (m/min)	1,559 (475)
BMEP	psi (kPa)	154 (1,062)

#### EXHAUST

		Standby
Exhaust Flow (Rated Output)	scfm (m <sup>3</sup> /min)	534 (15.1)
Maximum Allowable Backpressure (Post Silencer)	inHg (kPa)	1.5 (5.1)
Exhaust Temperature (Rated Output - Post Turbo)	°F (°C)	930 (499)

\*\* 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.

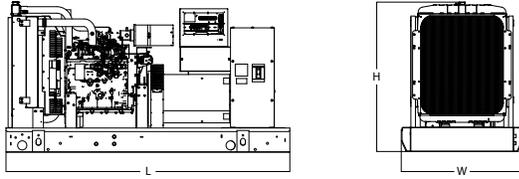
Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.

Standby - See Bulletin 0187500SSB

Prime - See Bulletin 0187510SSB

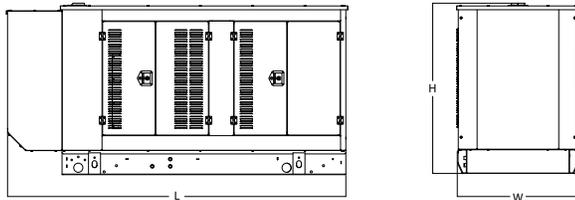
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**DIMENSIONS AND WEIGHTS\***



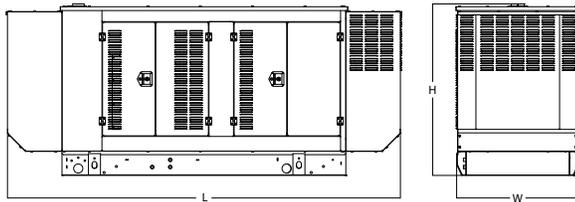
**OPEN SET**

Run Time - Hours	Usable Capacity - gal (L)	L x W x H - in (mm)	Weight - lbs (kg)	
			Steel	Aluminum
No Tank	-	92.9 (2,360) x 40.0 (1,016) x 49.2 (1,250)	2,488	(1,128)
16	79 (299)	92.9 (2,360) x 40.0 (1,016) x 62.2 (1,580)	3,010	(1,365)
39	189 (716)	92.9 (2,360) x 40.0 (1,016) x 74.2 (1,885)	3,246	(1,472)
59	285 (1,078)	135.4 (3,438) x 40.0 (1,016) x 74.2 (1,885)	3,963	(1,798)
63	305 (1,134)	92.9 (2,360) x 40.0 (1,016) x 86.2 (2,190)	3,470	(1,573)
72	350 (1,325)	110.0 (2,794) x 40.0 (1,016) x 86.2 (2,190)	3,872	(1,756)
106	510 (1,930)	116.5 (2,960) x 46.5 (1,180) x 91.8 (2,333)	3,853	(1,749)
122	589 (2,227)	128.0 (3,250) x 46.8 (1,190) x 89.7 (2,279)	4,332	(1,954)



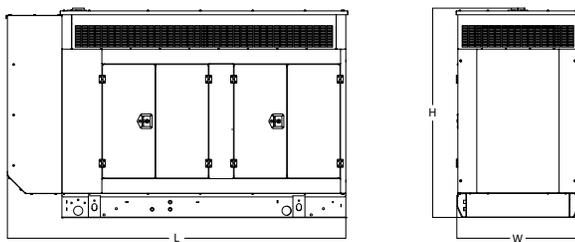
**WEATHER PROTECTED ENCLOSURE**

Run Time - Hours	Usable Capacity - gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	111.8 (2,840) x 40.5 (1,028) x 56.2 (1,427)		
16	79 (299)	111.8 (2,840) x 40.5 (1,028) x 69.2 (1,757)		
39	189 (716)	111.8 (2,840) x 40.5 (1,028) x 81.2 (2,062)		
59	285 (1,078)	135.4 (3,438) x 40.5 (1,028) x 81.2 (2,062)	529	260
63	305 (1,134)	111.8 (2,840) x 40.5 (1,028) x 93.2 (2,367)	(240)	(118)
72	350 (1,325)	111.8 (2,840) x 40.5 (1,028) x 93.2 (2,367)		
106	510 (1,930)	116.5 (2,960) x 46.5 (1,180) x 98.8 (2,510)		
122	589 (2,227)	128.0 (3,250) x 46.8 (1,190) x 96.7 (2,456)		



**LEVEL 1 SOUND ATTENUATED ENCLOSURE**

Run Time - Hours	Usable Capacity - gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	129.4 (3,287) x 40.5 (1,028) x 56.2 (1,427)		
16	79 (299)	129.4 (3,287) x 40.5 (1,028) x 69.2 (1,757)		
39	189 (716)	129.4 (3,287) x 40.5 (1,028) x 81.2 (2,062)		
59	285 (1,078)	135.4 (3,438) x 40.5 (1,028) x 81.2 (2,062)	690	329
63	305 (1,134)	129.4 (3,287) x 40.5 (1,028) x 93.2 (2,367)	(313)	(150)
72	350 (1,325)	129.4 (3,287) x 40.5 (1,028) x 93.2 (2,367)		
106	510 (1,930)	129.4 (3,287) x 46.5 (1,180) x 98.8 (2,510)		
122	589 (2,227)	129.4 (3,287) x 46.8 (1,190) x 96.7 (2,456)		



**LEVEL 2 SOUND ATTENUATED ENCLOSURE**

Run Time - Hours	Usable Capacity - gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	111.8 (2,840) x 40.5 (1,028) x 68.6 (1,743)		
16	79 (299)	111.8 (2,840) x 40.5 (1,028) x 81.6 (2,073)		
39	189 (716)	111.8 (2,840) x 40.5 (1,028) x 93.6 (2,378)		
59	285 (1,078)	135.4 (3,438) x 40.5 (1,028) x 93.6 (2,378)	818	384
63	305 (1,134)	111.8 (2,840) x 40.5 (1,028) x 105.6 (2,683)	(371)	(175)
72	350 (1,325)	111.8 (2,840) x 40.5 (1,028) x 105.6 (2,683)		
106	510 (1,930)	116.5 (2,960) x 46.5 (1,180) x 111.2 (2,826)		
122	589 (2,227)	128.0 (3,250) x 46.8 (1,190) x 109.1 (2,772)		

\* All measurements are approximate and specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.