

**Standby Power Rating**

15 kW, 19 kVA, 60 Hz

**Prime Power Rating\***

14 kW, 17 kVA, 60 Hz

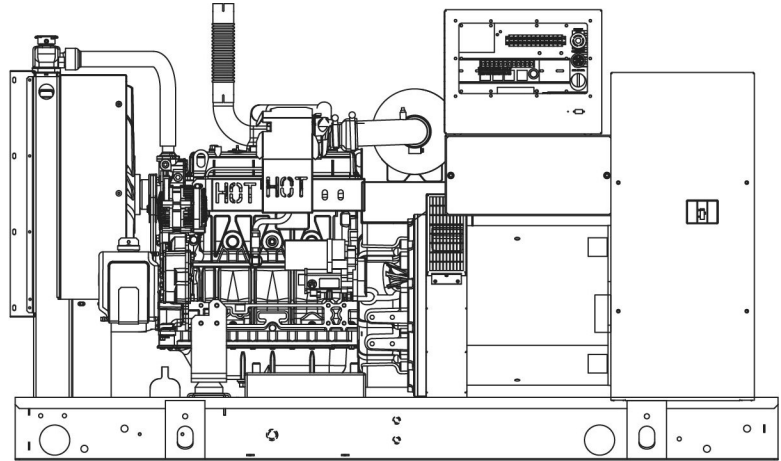




Image used for illustration purposes only



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

**Codes and Standards**


Generac products are designed to the following standards:


  UL2200, UL508, UL142, UL489


 CSA 22.2


  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  
American National Standards Institute

**Powering Ahead**

For over 50 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
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Exhaust Silencer (Enclosed 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
- 50/50 Ethylene Glycol Antifreeze
- 120 VAC Coolant Heater

**Electrical System**

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

**ALTERNATOR SYSTEM**

- GENprotect™
- 12 Leads (3-Phase, Non 600V)
- Class H Insulation Material
- Vented Rotor
- 2/3 Pitch
- Skewed Stator
- Auxiliary Voltage Regulator Power Winding
- Brushless Excitation
- Sealed Bearing
- Automated Manufacturing (Winding, Insertion, Lacing, Varnishing)
- 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)
- Silencer Mounted in the Discharge Hood (Enclosed Only)
- Silencer of Heat Shield

**ENCLOSURE (If Selected)**

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

**TANKS (If Selected)**

- UL 142
- 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 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
- 3-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
- 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)

**CONFIGURABLE OPTIONS**

**ENGINE SYSTEM**

- Oil Make-Up System
- Oil Heater
- Industrial Exhaust Silencer (Open Set)

**FUEL SYSTEM**

- Flexible Fuel Lines
- Primary Fuel Filter

**ELECTRICAL SYSTEM**

- 10A UL Battery Charger
- 2.5A UL Battery Charger
- Battery Warmer

**ALTERNATOR SYSTEM**

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

**GENERATOR SET**

- GenLink® Communications Software (English Only)
- 8 Position Load Center

**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 Attenuation
- Level 2 Sound Attenuation
- Level 2 Sound Attenuation with Motorized Dampers
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating\*
- AC/DC Enclosure Lighting Kit
- Door Alarm Switch

**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 Sender 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)
- Remote Communication - Modem
- 10A Run Relay
- Ground Fault Indication and Protection Functions

**TANKS (Size On Last Page)**

- Electric Fuel Level
- Mechanical Fuel Level
- 8" Fill Extension
- 13" Fill Extension
- 19" Fill Extension

**ENGINEERED OPTIONS**

**ENGINE SYSTEM**

- Coolant Heater Ball Valves
- Fluid Containment Pan
- Block Heaters

**CONTROL SYSTEM**

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

**ALTERNATOR SYSTEM**

- 3rd Breaker System

**GENERATOR SET**

- Special Testing
- IBC Seismic Certification

**ENCLOSURE**

- Door Switch for Intrusion Alarm
- Enclosure Ambient Heaters

**TANKS**

- Overfill Protection Valve
- UL2085 Tank
- ULC S-601 Tank
- Stainless Steel Tanks
- Special Fuel Tanks (MIDEQ and FL DEP/DERM, etc.)
- Vent Extensions

\* Consult factory for availability

# SD015 | 2.4L | 15 kW

## INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

### APPLICATION AND ENGINEERING DATA

#### ENGINE SPECIFICATIONS

##### General

Make	Generac
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	4
Type	In-Line
Displacement - L (cu. in)	2.4 (146.46)
Bore - mm (in)	90 (3.54)
Stroke - mm (in)	94 (3.70)
Compression Ratio	21.3:1
Intake Air Method	Turbocharged
Cylinder Head	Cast Iron
Piston Type	Aluminum
Crankshaft Type	Forged Steel

##### Engine Governing

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

##### Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow
Crankcase Capacity - L (qts)	6.2 (6.52)

##### Cooling System

Cooling System Type	Closed Recovery
Water Pump Type	Pre-Lubed, Self Sealing
Fan Type	Pusher
Fan Speed (rpm)	2,698
Fan Diameter - mm (in)	560 (22)

##### Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications	ASTM
Fuel Filtering (microns)	5
Fuel Inject Pump	Distribution Injection Pump
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line - mm (in.)	7.94 (0.31) NPT
Fuel Return Line - mm (in.)	7.94 (0.31) 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	Generac 390 mm
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase)
Telephone Interference Factor (TIF)	< 50

Standard Excitation	Synchronous Brushless
Bearings	Single Sealed Cartridge
Coupling	Direct Via Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

# SD015 | 2.4L | 15 kW

## INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

### OPERATING DATA

#### POWER RATINGS

		Standby
Single-Phase 120/240 VAC @1.0pf	15 kW	Amps: 63
Three-Phase 120/208 VAC @0.8pf	15 kW	Amps: 52
Three-Phase 120/240 VAC @0.8pf	15 kW	Amps: 45
Three-Phase 277/480 VAC @0.8pf	15 kW	Amps: 23
Three-Phase 346/600 VAC @0.8pf	15 kW	Amps: 18

#### STARTING CAPABILITIES (sKVA)

##### sKVA vs. Voltage Dip

277/480 VAC								208/240 VAC							
Alternator	kW	10%	15%	20%	25%	30%	35%	Alternator	kW	10%	15%	20%	25%	30%	35%
Standard	25	16	25	33	41	49	57	Standard	25	12	19	25	31	37	43

#### FUEL CONSUMPTION RATES\*

Fuel Pump Lift- ft (m)		Diesel - gal/hr (l/hr)	
		Percent Load	Standby
	3 (1)	25%	0.50 (1.9)
		50%	0.92 (3.5)
Total Fuel Pump Flow (Combustion + Return) - gal/hr (l/hr)		75%	1.22 (4.6)
	4.5 (17)	100%	1.47 (5.6)

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

#### COOLING

		Standby
Coolant Flow per Minute	gal/min (l/min)	10 (38)
Coolant System Capacity	gal (l)	2.8 (10.95)
Heat Rejection to Coolant	BTU/hr	60,480
Inlet Air	cfm (m <sup>3</sup> /hr)	4,500 (7,647)
Maximum Operating Air Temperature on Radiator	°F (°C)	122 (50)
Maximum Operating Air Temperature on Radiator (Before Derate)	°F (°C)	110 (43.3)
Maximum Radiator Backpressure	in H <sub>2</sub> O (kPa)	0.5 (0.12)

#### COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power cfm (m <sup>3</sup> /min)	82 (2.32)

#### ENGINE

		Standby
Rated Engine Speed	rpm	1,800
Horsepower at Rated kW**	hp	51
Piston Speed	ft(m)/min	1,110
BMEP	psi	69

#### EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m <sup>3</sup> /min)	152 (258)
Max. Allowable Backpressure	inHg (kPa)	1.5 (5.1)
Exhaust Temp (Rated Output)	°F (°C)	540 (282)

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

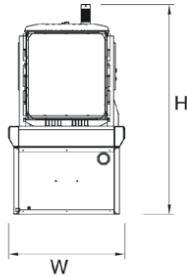
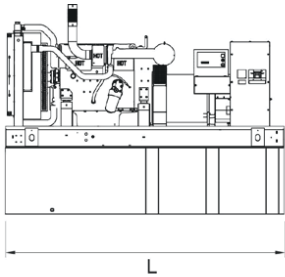
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

Please consult 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

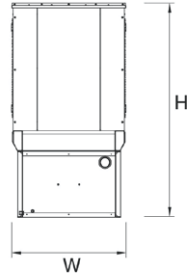
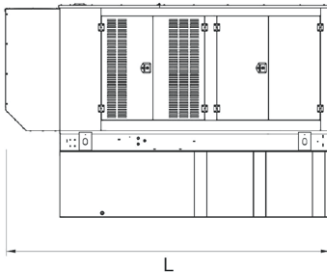
Prime - See Bulletin 0187510SSB

**DIMENSIONS AND WEIGHTS\***



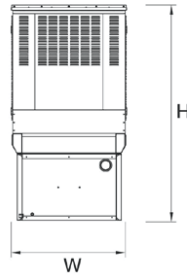
**OPEN SET (Includes Exhaust Flex)**

Run Time Hours	Usable Capacity Gal (L)	L x W x H in (mm)	Weight lbs (kg)
No Tank	-	76 (1,930.4) x 37.4 (949.9) x 42.2 (1,072.1)	2,060 (934)
36	54 (204)	76 (1,930.4) x 37.4 (949.9) x 55.2 (1,402.1)	2,540 (1,152)
89	132 (501)	76 (1,930.4) x 37.4 (949.9) x 67.2 (1,706.9)	2,770 (1,257)
143	211 (799)	76 (1,930.4) x 37.4 (949.9) x 79.2 (2,011.7)	2,979 (1,351)
204	300 (1,136)	92.9 (2,360) x 37.4 (949.9) x 82.7 (2,100.6)	3,042 (1,380)



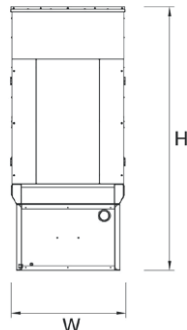
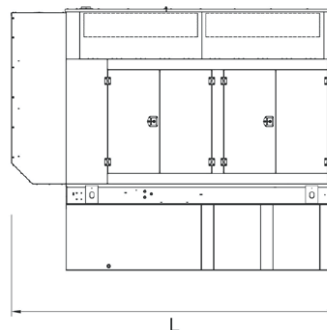
**STANDARD ENCLOSURE**

Run Time Hours	Usable Capacity Gal (L)	L x W x H in (mm)	Weight lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	94.8 (2,408.9) x 38 (965.2) x 49.5 (1,258.1)		
36	54 (204)	94.8 (2,408.9) x 38 (965.2) x 62.5 (1,587.5)	302 (137)	191 (87)
89	132 (501)	94.8 (2,408.9) x 38 (965.2) x 74.5 (1,892.3)		
143	211 (799)	94.8 (2,408.9) x 38 (965.2) x 86.5 (2,197.1)		
204	300 (1,136)	94.8 (2,408.9) x 38 (965.2) x 90 (2,286)		



**LEVEL 1 ACOUSTIC ENCLOSURE**

Run Time Hours	Usable Capacity Gal (L)	L x W x H in (mm)	Weight lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	112.5 (2,857.1) x 38 (965.2) x 49.5 (1,258.1)		
36	54 (204)	112.5 (2,857.1) x 38 (965.2) x 62.5 (1,587.5)	455 (206)	288 (131)
89	132 (501)	112.5 (2,857.1) x 38 (965.2) x 74.5 (1,892.3)		
143	211 (799)	112.5 (2,857.1) x 38 (965.2) x 86.5 (2,197.1)		
204	300 (1,136)	112.5 (2,857.1) x 38 (965.2) x 90 (2,286)		



**LEVEL 2 ACOUSTIC ENCLOSURE**

Run Time Hours	Usable Capacity Gal (L)	L x W x H in (mm)	Weight lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	94.8 (2,408.9) x 38 (965.2) x 62 (1,573.9)		
36	54 (204)	94.8 (2,408.9) x 38 (965.2) x 75 (1,905)	460 (209)	291 (132)
89	132 (501)	94.8 (2,408.9) x 38 (965.2) x 87 (2,209.8)		
143	211 (799)	94.8 (2,408.9) x 38 (965.2) x 99 (2,514.6)		
204	300 (1,136)	94.8 (2,408.9) x 38 (965.2) x 102.5 (2,603.5)		

\* All measurements are approximate and for estimation purposes only.

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.