

**Standby Power Rating**  
 15 kW, 60 Hz



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.

# SDC015 | 1.5L | 15 kW

## INDUSTRIAL DC DIESEL GENERATOR SET

EPA Certified Stationary Emergency

### STANDARD FEATURES

#### ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner with Service Indicator
- Level 1 Fan and Belt Guards (Open Set Only)
- Stainless Steel Flexible Exhaust Connection
- Silencer with Drain
- Factory Filled Oil and Coolant

#### Fuel System

- Primary Fuel Filter

#### Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

#### Electrical System

- Battery Charging Alternator
- AGM Spill Proof Battery
- Battery Cables
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

#### ALTERNATOR SYSTEM

- Class H Insulated Material
- Vented Rotor
- Permanent Magnet Excitation
- Full Load Capacity Alternator
- Protective Thermal Switch

#### GENERATOR SET

- Single Side Service
- Internal Genset Puck Style Vibration Isolators
- Silencer Heat Shield
- High-Heat Wrapped Exhaust Piping
- Silencer Enclosed within Generator
- 2 Year Limited Warranty
- Extended Factory Testing

#### ENCLOSURE

- Serviceable Items Accessible Through Single Lift-Off Side Door
- High Performance Sound-Absorbing Material
- Gasketed Door
- Single Door Latch Lockable with Key and Padlock
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- 150 MPH Wind Load Rating
- 36" Snow Rating
- Aluminum Enclosure

#### FUEL TANK

- UL 142/ULC S601 Compliant
- Double Wall Construction
- Factory Pressure Tested (5 psi)
- Rupture Basin Alarm
- Fuel Level Gauge and Sender
- Check Valve in Supply Line
- Fire Rated Hose
- RhinoCoat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware
- Integrated Fork Pockets

### CONTROL SYSTEM



#### DSE 7310 MKII

- 4-Line Back-Lit LCD Text Display
- Multiple Display Languages
- 5 Key Menu Navigation
- LCD Alarm Indication
- Internal PLC with Editor
- Fully Configurable via PC Using USB, RS-232 and RS-485 Communication
- Generator Current and Power Monitoring (kW, kVAr, kVA, pf)
- kW and kVAr Overload and Reverse Power Alarms
- Over Current Protection
- Unbalanced Load Protection

#### Alarms

- Generator Run- Dry Contact
- Major Alarm- Dry Contact
- Minor Alarm- Dry Contact
- Low Fuel Alarm- Dry Contact
- Generator Fluid Spill Alarm- Dry Contact

### MODEL OPTIONS

#### COOLING SYSTEM

- 48 VDC Coolant Heater

#### CONTROL SYSTEM

- External E-Stop - Shipped Loose Kit and Field Installed

#### ENCLOSURE

- Extreme Cold Weather Kit (-40 °C) - Shipped Loose Kit and Field Installed
- Engine Coolant Heater
- Battery Warmer
- Oil Heater

#### TANKS

- MDEQ Fuel Vent - Shipped Loose Kit and Field Installed
- 125% System Spill Containment
- 2.5 Gallon Fuel Fill Spill Containment
- Thermal Valve (Fusible Link)
- Overfill Prevention Valve

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## ACCESSORY KITS

Model Number	Product	Description
G0076300	2.5 Gallon Fuel Spill Box	Attaches to the existing fuel fill port of the base tank. It captures and contains fuel if there is any spill or over-filling during the fill process.
G0076990	Overfill Prevention Valve	A valve installed inside the fuel fill spill box with adjustable float that will rise during fuel fill and stop fuel from entering the tank, preventing overfill.
G0079820	Tank Risers Under Tanks	A set of additional mounting feet to raise the bottom of the fuel tank off the ground to prevent corrosion.
G0079990	External Vent Kit	An extension of the already installed double-wall tank emergency vent system. The External Vent Kit is installed into the existing tank ports and extends the vent outlet above the top of the generator, rather than at the top of the fuel tank.
G0076200	Cold Weather Kit	Recommended for generators installed in regions where the temperature regularly falls below 32 °F (0 °C). The Cold Weather Kit includes a block heater with all necessary mounting hardware, a battery warmer, and an oil pan heater. The ON/OFF functionality of the heating aids are controlled by a separately mounted control box with relays.
A0000181910	Decal Pack AT&T Diesel	Contains various decals and labels required for AT&T.
G0077070	Fuel Fill Drop Tube	A powder coat painted, steel Fuel Fill Drop Tube is required in some municipalities to prevent electrostatic discharge, which can be caused by the fuel dropping into the tank from the fill area. Using a drop tube also results in submerged filling, which increases the fuel delivery flow rate and reduces vapors, foam, and potential tank evaporation.
G0084440	Fusible Link	A valve installed on the engine fuel supply line, typically at the fuel tank fuel supply port. This valve will stop the supply of fuel to the engine in case of a thermal event.
G0079870	MDEQ Manual Primer	In certain installation locations, stainless steel fuel lines are required. This kit includes the stainless steel fuel lines, a manual fuel primer, and all necessary fittings.
G0061620	E-Stop (Flush Mount)	The E-Stop allows for immediate fuel shutoff and generator shutdown in the event of an emergency.
G0079830	Fluid Containment Tray	Installed on top of the fuel tank directly under the engine and cooling package. Intended to contain up to 125% of the total capacity of engine oil and/or coolant.
0F2903F	Remote Alarm 90% Fuel	Alerts the fuel fill operator when the tank reaches a 90% fill level by sounding an audible alarm and triggering an LED warning light.

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### APPLICATION AND ENGINEERING DATA

#### ENGINE SPECIFICATIONS

##### General

Make	Perkins
Cylinder #	3
Type	In-Line
Displacement - in <sup>3</sup> (L)	91.3 (1.496)
Bore - in (mm)	3.3 (84)
Stroke - in (mm)	3.5 (90)
Compression Ratio	22.5:1
Intake Air Method	Naturally Aspirated

##### Engine Governing

Governor	Mechanical/Electric Control
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##### Lubrication System

Crankcase Capacity - qt (L)	1.59 (6)
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##### Cooling System

Cooling System Type	Closed Recovery
Water Pump Flow - gpm (Lpm)	20.7 (78.36)
Fan Speed - RPM	3,250
Fan Diameter - in (mm)	12.6 (320)

##### Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specification	ASTM
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line - in (mm)	0.375 (9.525)
Fuel Return Line - in (mm)	0.1875 (4.76)
Fuel Shut off Solenoid	Yes

##### Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	12V-50A
Battery Size	650 CCA
Battery Group	35
Battery Voltage	12 VDC
Ground Polarity	Negative

#### ALTERNATOR SPECIFICATIONS

Standard Model	NSM
Poles	30
Insulation Class - Rotor	H
Insulation Class - Stator	H

Standard Excitation	Permanent Magnet
Bearings	Bearingless
Coupling	Direct
Load Capacity - Standby	100%
DC Ripple	<100 mV RMS

#### RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

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**OPERATING DATA**

**POWER RATINGS**

Standby			
57.5 VDC	15 kW	Amps: 261	Fuse Size Amps: 350

**FUEL CONSUMPTION RATES\***

Fuel Pump Lift - ft (m)	Voltage	Diesel - gph (Lph)				
		Percent Load				
		0%	25%	50%	75%	100%
2.6 (0.8)	48.0	0.42	0.68	0.76	1.10	1.35
	52.5	0.34	0.68	0.93	1.35	1.52
Total Fuel Pump Flow (Combustion + Return) - gph (Lph)	55.0	0.51	0.76	0.93	1.24	1.53
16.6 (63)	57.5	0.42	0.68	1.02	1.27	1.61
	60.0	0.51	0.76	1.10	1.44	1.69

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

**COOLING**

Standby		
Coolant Flow	gpm (Lpm)	20.7 (94.2)
Coolant System Capacity	gal (L)	1.6 (6)
Heat Rejection to Coolant	BTU/hr (kW)	81,000 (23.7)
Altitude Deration	1% for every 100 m above 914 m or 3% for every 1,000 ft over 3,000 ft	

**COMBUSTION AIR REQUIREMENTS**

Standby	
Flow at Rated Power - cfm (m <sup>3</sup> /min)	61.9 (1.8)

**ENGINE**

Standby		
Rated Engine Speed	RPM	2,600

**EXHAUST**

Standby		
Exhaust Flow (Rated Output)	cfm (m <sup>3</sup> /min)	183.7 (5.2)
Exhaust Temperature (Rated Output)	°F (°C)	1,139 (615)

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

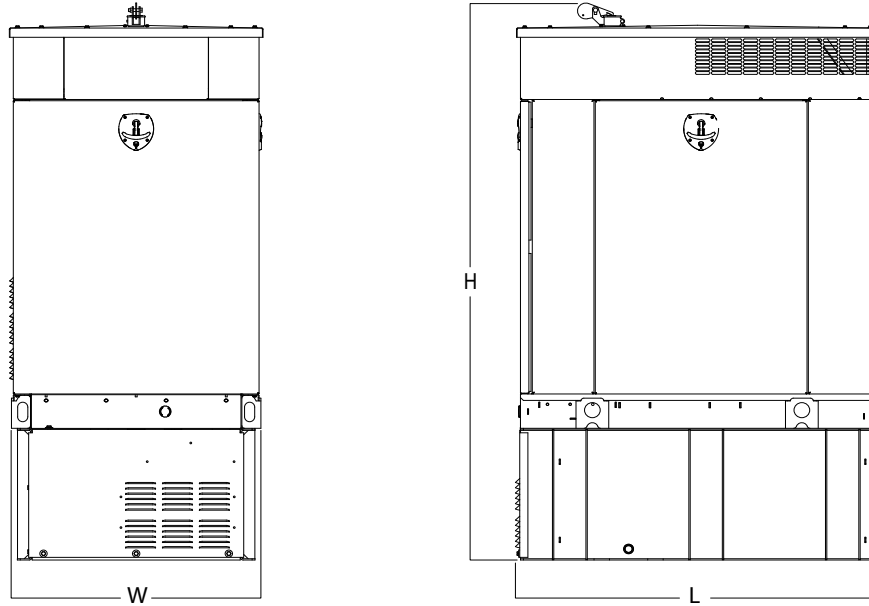
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

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

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**DIMENSIONS AND WEIGHTS\***



Run Time - Hours	27
Usable Capacity - gal (L)	54 (204)
Dimensions (L x W x H) - in (mm)	49.1 (1,246) x 34.4 (873) x 75.5 (1,917)
Weight - lbs (kg)	1,455 (660)

\* All measurements are approximate and for estimation purposes only. Drawing is for illustration purposes only, not to scale.

<b>YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER</b>

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.