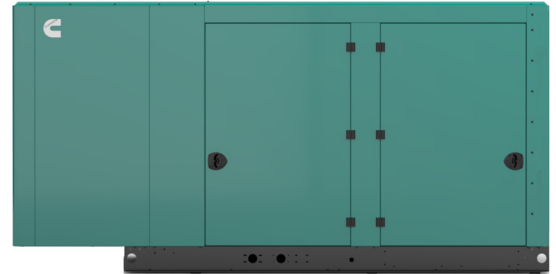




# Quiet Connect™ Series RS125



## Features and benefits

**Robust product design and testing** - The generator is designed to operate under extreme environmental conditions including cold weather starts at as low as -40 °F when equipped with the necessary accessories. The generator is tested and certified per the latest EPA, UL and IBC Seismic standards and is capable of meeting NFPA110 requirements when equipped with the necessary accessories and properly installed.

**Flexible exercise mode** - The innovative, flexible exercise mode enables the generator to exercise at a time, frequency and duration that suits the customer's preference - as little as 2 minutes every 6 months - reducing unnecessary fuel consumption, emissions and noise.

**Advanced enclosure design** - The aesthetically appealing enclosure incorporates special designs that deliver the quietest generator of its kind. Aluminum material plus durable powder coat paint provides the best anti-corrosion performance. The generator set enclosure has been evaluated to withstand 180 MPH wind loads in accordance with ASCE7-10. The design has hinged doors to provide easy access for service and maintenance

**Self-diagnostics and easy service** - The generator is equipped with Cummins PowerCommand® electronic control to provide industry-leading self-diagnostic capabilities. In addition, critical components of the generator are designed to ensure service and preventive maintenance can be completed in a short period of time.

## Weight, size and sound level

**Size:** Length 143.0 in (3621 mm), width 40.0 in (1016 mm), height 72.0 in (1836 mm)

**Sound:** 73 dB(A) at 23 ft. (7 m) at normal load

Series	Model	Phase	Voltage (V)	Frequency (Hz)	Rated amp <sup>1</sup> (NG only)	Circuit Breaker (Amps)
RS125	C125N6	1	120 / 240	60	520.8	600
		3	120 / 208	60	433.6	600
		3	277 / 480	60	187.9	250
		3	120 / 240	60	375.8	400

<sup>1</sup> Derating guidelines: Engine power available up to 2010 m (6600 feet) at ambient temperatures up to 40 °C (104 °F). Above these elevations derate at 4.5% per 300m (985 feet) and 1.5% per 10 °C (18 °F).

## Product Features

### Engine

- Natural gas ONLY
- Engine air cleaner – normal duty
- Electronic governor, isochronous
- Engine starter, 12 VDC motor
- Shutdown – low oil pressure
- Extension – oil drain
- Engine oil – included

### Fuel System

- Single fuel – natural gas only

### Alternator

- 60 Hz, 1 phase, 4 lead, or 3 phase, 12 lead, 120 °C temperature rise at 40 °C ambient
- Exciter/voltage regulator – torque match

### Control

- PowerCommand 23
- Display language – English
- Control mounting, left facing

### Electrical

- Single circuit breaker, UL certified, right side mounted
- Battery charging alternator
- Battery charger – 6 Amps

### Cooling

- Generator set cooling capacity – 50 °C
- Shutdown – low coolant level
- Engine coolant – 50/50 mixture
- Extension – coolant drain

### Enclosure

- Aluminum enclosure Sound Level 1 with muffler installed, green color
- Wind rating – 180 MPH

### Code Compliance

- UL 2200
- EPA emissions, stationary emergency, 40CFR60
- IBC Seismic
- NFPA110 capable

### Generator set application

- Coolant heater
- Battery rack
- Literature (English) – Operator's manual, Installation manual

### Warranty

- Base: 2 years standby
- Extended warranties available

### Packaging

- Shipping pallet

## Generator Set performance

**Governor regulation class:** ISO 8528 Part 1 Class G3

**Voltage regulation, no load to full load:** ±1.0%

**Random voltage variation:** ±1.0%

**Frequency regulation:** Isochronous

**Random frequency variation:** ± 0.25% @ 60 Hz

**Radio frequency emissions compliance:** FCC code Title 47 part 15 Class B

### Engine

**Design:** Turbocharged and aftercooled

**Bore:** 114.1 mm (4.49 in)

**Stroke:** 144.5 mm (5.69 in)

**Displacement:** 8.9 liters (543 in<sup>3</sup>)

**Cylinder block:** Cast iron, in-line 6 cylinder

**Battery capacity:** 850 amps at ambient temperature of 0 °F to 32 °F (-18 °C to 0 °C)

**Battery charging alternator:** 100 amps

**Starting voltage:** 12 volt, negative ground

**Lube oil filter type(s):** Spin-on with relief valve

**Standard cooling system:** 50 °C (122 °F) ambient cooling system

**Rated speed:** 1800 rpm

### Fuel supply pressure

**Minimum - in H<sub>2</sub>O (kPa):** NG 6.0 (1.5)

**Maximum - in H<sub>2</sub>O (kPa):** NG 13.0 (3.5)

### Control system

The PowerCommand® electronic control is standard equipment and provides total generator set system integration including automatic remote starting/stopping, precise frequency and voltage regulation, alarm and status message display, output metering, auto-shutdown at fault detection and NFPA 110 Level 1 compliance.

### Sound attenuated enclosure

The aesthetically appealing enclosure incorporates special designs that deliver the quietest generator of its kind. Aluminum material plus durable powder coat paint provides the best anti-corrosion performance. The generator set enclosure has been evaluated to withstand 180 MPH wind loads in accordance with ASCE7-10. The design has hinged doors to provide easy access for service and maintenance.

## Average fuel consumption

Fuel consumption – Natural Gas

Load	1/4	1/2	3/4	Full
Ft <sup>3</sup> /hr.	680.7	1038.1	1362.2	1660.9
M <sup>3</sup> /hr.	19.28	29.40	38.58	47.04

Conversion factor:

8.58 ft<sup>3</sup> = 1 lb.

0.535 m<sup>3</sup> = 1 kg

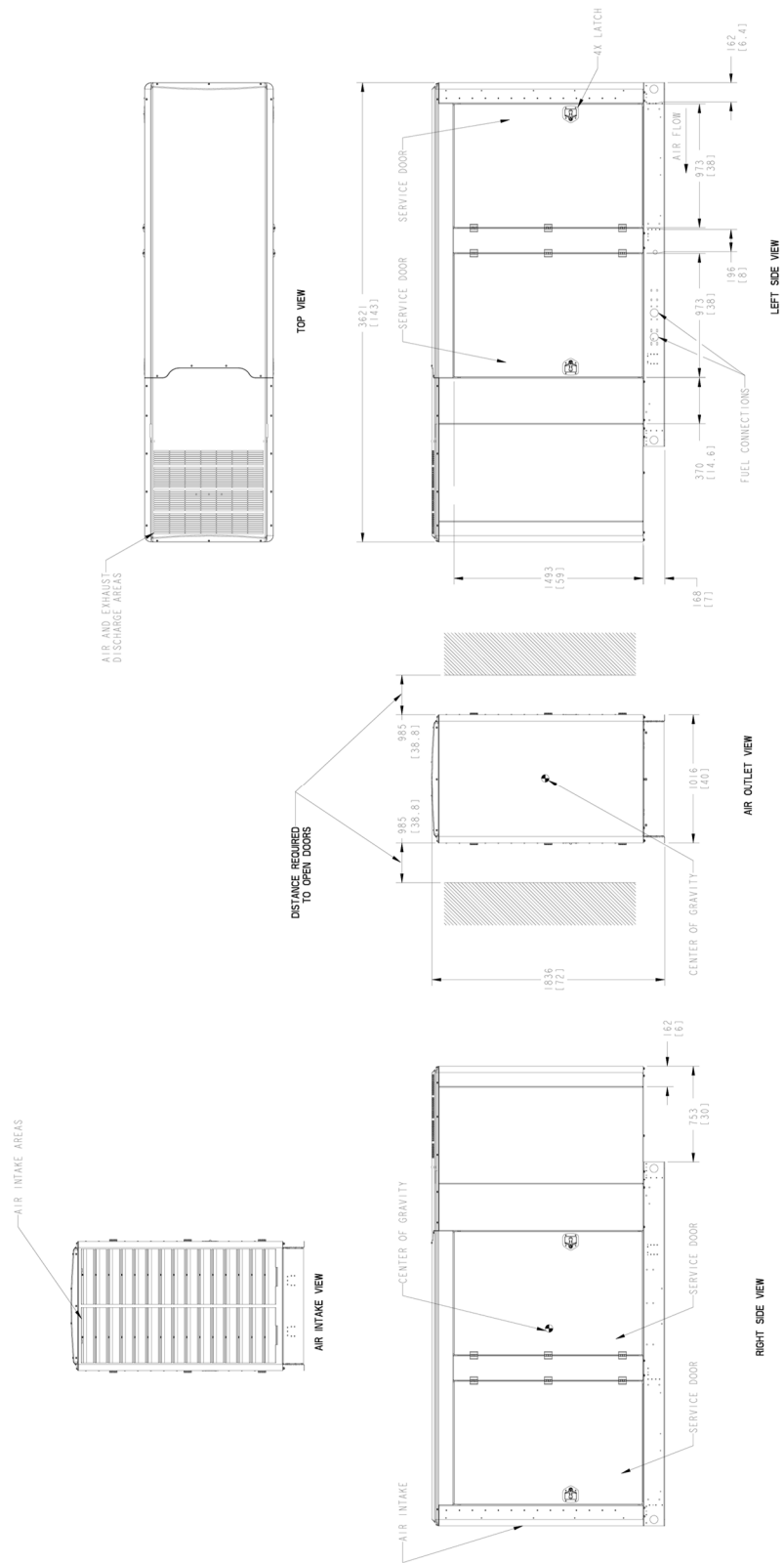
36.39 ft<sup>3</sup> = 1 gal

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# Basic dimension



**Note:** This outline drawing provides general reference only and is not intended for use in design or installation. For more information, see Operators and Installation manuals or contact your distributor or dealer for assistance.

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## Accessories

- Remote displays
- Auxiliary output relays (2)
- Auxiliary configurable signal inputs (8) and relay outputs (8)
- Annunciator – RS485
- Internet monitoring device – PowerCommand 500/550
- Battery charger – stand-alone, 12V
- Enclosure Sound Level 1 to Sound Level 2 upgrade kit
- Enclosure paint touch up kit
- Base barrier – elevated generator set
- Alternator heater
- Maintenance and service kit



### **⚠ WARNING:**

Standby rating based on: Applicable for supplying emergency power for the duration of normal power interruption. No sustained overload capability is available for this rating. (Equivalent to fuel stop power in accordance with ISO3046, AS2789, DIN6271 and BS5514 nominally rated.) See T030.

### **⚠ WARNING:**

Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building electrical except through an approved device or after building main breaker is open.

## Transfer switch (also sold separately)

- Automatic Transfer Switches available in various amperages.
- Service Entrance and Non-Service Entrances models are available.
- Available for both Indoor and Outdoor applications.
- All models UL listed to UL 1008 standard.
- Compatibility with Cummins generator set helps reduce the installation time for the complete application.

## Warranty policy

The Cummins RS and RX liquid cooled generator set models come with a 2 year base warranty when used in EPA-Stationary Emergency application. Extended warranty options are available.

Please contact Cummins dealers/distributors for details

## After sale support

### Largest distributor/dealer support network

Cummins Power Generation generator sets are supported by the largest and best trained worldwide certified distributor/dealer network in the industry. This network of knowledgeable distributor/dealers will help you select and install the right generator set and accessories to meet the requirements of your specific application. This same network offers a complete selection of commonly used generator set maintenance parts, accessories and products plus manuals and specification sheets. Plus, they can answer your questions regarding proper operation, maintenance schedules and more.

**Manuals:** Operation and installation manuals ship with the generator set. To obtain additional copies or other manuals for this model, see your distributor/dealer. To easily locate the nearest certified distributor/dealer for Cummins Power Generation generators in your area, or for more information, contact us at 1-800-344-0039 or visit [power.cummins.com](http://power.cummins.com).

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**Contact your distributor/dealer for more information.**