

# Residential generator set RS Air-Cooled Series RS13A/AC Model GSBA



## Features and benefits

- Very quiet operation
- Internet remote monitoring and email notification
- Automatic load management - The intelligent generator control automatically manages non-essential household loads for maximum utilization of generator power
- Cummins designed alternator and electronic control
- Powerful motor starting - starts and runs a 4 ton A/C<sup>1</sup> under full pre-load
- GFCI "Ready"
- Self-diagnostic capability
- Service and maintenance information displayed on in home display
- Easy installation with innovative molded polymer installation base - no need for a concrete pad

- Electronic governor for precise frequency control
- Flexible 12 inch fuel line provided with genset
- Generator designed and manufactured in the USA
- U.S. EPA and CARB Emissions compliant for use in all 50 states
- UL 2200 Listed and CSA Certified generator and transfer switch for your protection
- Quality power output, less than 5% THD
- 5 year, 2000 hour limited warranty

## Weight, size and sound level

**Weight:** 460 lbs (209 kg)

**Size:** Length 52.7 in (1339 mm), width 40.8 in (1037 mm), height 35 in (889 mm)

**Sound:** 61 dB(A) at 23 ft (7 m) at normal load<sup>2</sup>

## Models and ratings

Series	Order model	Part Number	Fuel	Voltage	Frequency	Rated amps <sup>3</sup>	Circuit breaker	Cold weather equipped	Listing
<b>RS13A</b>	13GSBA-6712B	A043X818	Natural gas	120/240	60 Hz	92/46	60 A, 2 pole	No (>32 °F)	UL
<b>RS13A</b>	13GSBA-6722B	A045L194	LP vapor	120/240	60 Hz	106/53	60A, 2 pole	No (>32 °F)	UL
<b>RS13A</b>	13GSBA-6711B	A043X821	Natural gas	120/240	60 Hz	92/46	60A, 2 pole	Yes (>-20 °F)	UL
<b>RS13A</b>	13GSBA-6721B	A045L195	LP vapor	120/240	60 Hz	106/53	60A, 2 pole	Yes (>-20 °F)	UL
<b>RS13AC</b>	13GSBA-6718B	A043X822	Natural gas	120/240	60 Hz	86/43	60A, 2 pole	Yes (>-20 °F)	CSA
<b>RS13AC</b>	13GSBA-6728B	A045L196	LP vapor	120/240	60 Hz	100/50	60A, 2 pole	Yes (>-20 °F)	CSA

<sup>1</sup> Air-conditioners vary by type, efficiency, operational conditions, etc. Consult with a qualified HVAC specialist or Cummins Power Generation distributor/dealer for proper sizing.

<sup>2</sup> Normal load is defined as typical household consumption of 3kW.

<sup>3</sup> Derating guidelines: Maximum wattage and current are subject to and limited by such factors as fuel Btu content, ambient temperature, altitude, engine power and condition, etc. Full rated power available at 60 °F (15.5 °C) and sea level maximum. Derate 3.5% for each 1000 ft (304.8 m) above sea level and 3% for each 10 °F (5.5 °C) increase in ambient temperature above 60 °F (15.5 °C). Maximum wattage or maximum current are based upon minimum service voltage in accordance with UL 2200 (Stationary Engine Generator Assemblies) or CSA C22.2 No. 100-04 (Motors and Generators).

## Engine

**Model:** 720 cc, air-cooled v-twin OHV

**Compression ratio:** 8.3:1

**Displacement:** 40.9 cu in (720 cc)

**Cooling air volume:** 759 cfm

**Oil sump capacity:** 1.80 qt (1.7 L) with filter

**Operating speed:** 3600 rpm

**Fuel supply pressure:** NG 5-11 in H<sub>2</sub>O, LP 7-11 in H<sub>2</sub>O

- Cummins designed fuel system for max power output and durability
- Integrated oil drain valve and extension tube included
- 15 A battery charger
- Highly reliable solenoid shift starter
- Transistorized magneto ignition
- Automotive-style lubrication system
- Oil cooler
- Spin-on oil filter
- Electronic governor
- Large-capacity air cleaner

## Weather protective sound enclosure

- Thick 11 gauge aluminum enclosure with resilient architectural grade powder coat paint
- Durable polypropylene base eliminates need for concrete pad
- UL Listed, impact resistant, fully colored, automotive grade polypropylene cover with UV stabilizer
- All maintenance points are accessible without the use of tools
- “Under the hood” oil dipstick check and fill
- Electrical stub-up and side knockouts provided on genset for installation flexibility
- Patented, innovative, compact and neighborhood friendly design blends into any residential setting
- Lift-off enclosure for close proximity installations
- No exposed fasteners
- Key lockable
- High intake and exhaust to reduce rain ingestion and snow blockage
- GFCI “Ready” mounting location provided on genset enclosure
- Externally mounted circuit breaker with weatherproof cover

## Exhaust muffler

- Large automotive grade corrosion resistant muffler design
- Low noise

## Load management

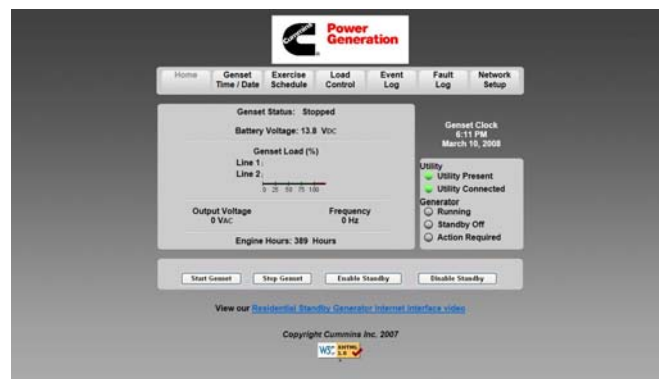
- Automatically turns on/off loads to prevent generator overload
- Easy to set up from in-home display
- Easily connected at the generator

*Note: Additional installation and relays are required.*

## Control system

- Cummins Proprietary electronic control with self diagnostics and generator set protection and safety features included
- Automatically starts and stops generator upon identification of a power outage
- Microprocessor control manages generator set operation, fault detection and service diagnostics
- Illuminated run/off/auto switch
- Convenient access to all connection points
- Fully automatic operation

## Internet/email capability



- Sends you or your service technician an email if service or maintenance is required.
- View generator status from the internet.  
*Note: Network Specialist required for set-up*
- Installation and set-up is required. See Installation Manual for additional details.

## In-home display



- Wired in-home LCD display is offered standard on every set.
- Surface mountable at genset (standard) or remotely (installation required).
- Power continually supplied to the display; no need for replaceable batteries.
- Genset can be started/stopped from the display.
- Easily set/adjust genset exercise for day and time, with capability to choose weekly, bi-weekly or monthly.
- Displays maintenance and service reminders.
- Percent load is displayed allowing user to manage load.
- Displays last 30 faults for troubleshooting.
- Displays last 30 events (i.e., day and time of power outage, exercise, etc.).
- Adjust and configure RSS service entrance ATS models

## Average fuel consumption

### Fuel consumption – natural gas

Load:	1/4	1/2	3/4	Full
Ft <sup>3</sup> /hr:	103	122	172	191
M <sup>3</sup> /hr:	2.9	3.5	4.2	5.4
Kg/hr	2.1	2.5	3.5	3.9
Btu/hr	103000	122000	172000	191000

Nominal fuel rating – 37 MJ/M<sup>3</sup> (1000 Btu/ft<sup>3</sup>)

### Fuel consumption – LP vapor

Load:	1/4	1/2	3/4	Full
Ft <sup>3</sup> /hr:	42	53	71	88
M <sup>3</sup> /hr:	1.2	1.5	2.0	2.5
Gal/hr	1.2	1.5	2.0	2.4
L/hr	4.5	5.7	7.6	9.1
Kg/hr	2.2	2.8	3.7	4.7
Btu/hr	105000	132500	177500	220000

Nominal fuel rating – 93 MJ/M<sup>3</sup> (2500 Btu/ft<sup>3</sup>)

#### Conversion factor:

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

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

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

## Alternator details

**Design:** Cummins 2-pole, self-excited revolving field. Permanently aligned to engine by a tapered shaft.

**AC waveform total harmonic distortion:** Less than 5% THD (total harmonic distortion).

**Insulation system and temperature rise:** Class H insulation per NEMA MG-1-1-66.

**Cooling:** Direct-drive, centrifugal blower.

**Rotor:** Laminated electrical steel assembly skewed for improved voltage waveform, heavy insulated copper wire windings.

**Bearing:** Double-sealed pre-lubricated ball bearing.

**DC brushes:** Electrographitic, long life, easily serviced.

## Generator set performance

**Voltage regulation:** ±1.5% no load to full load.

**Frequency regulation:** Isochronous, 0% no load to full load.

**Motor starting kVA (30% voltage dip):** 37

**Operating temperature:**

122 °F (50 °C) to 32 °F (0 °C): Standard Model

122 °F (50 °C) to -20 °F (-29 °C): Cold Weather Equipped Model

Additional accessories are available to allow for operation in high humidity. See Accessories section for details.

## Easy service and installation

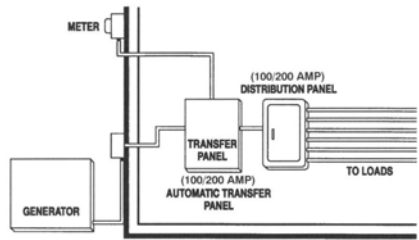


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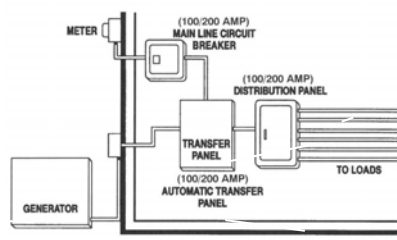
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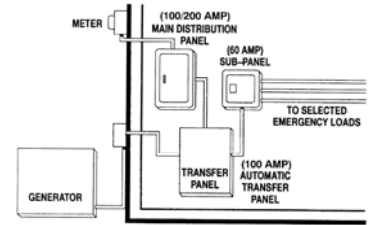
## Automatic transfer panel configurations



**Service entrance installation (USA only)  
(100/200 A)**

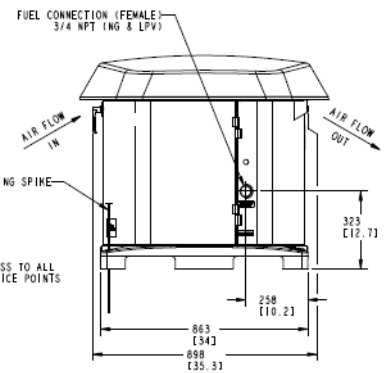
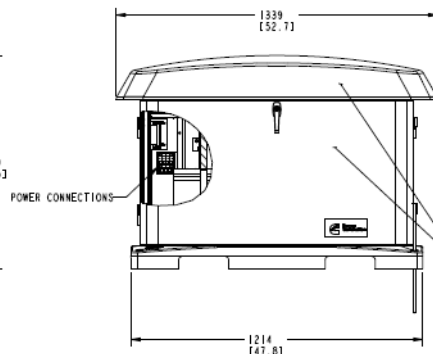
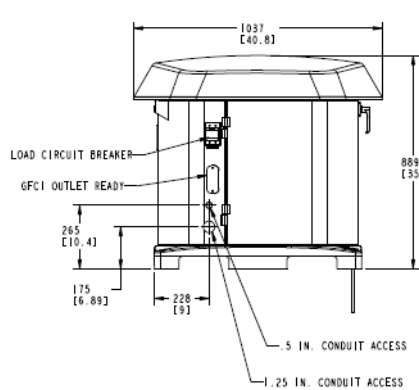
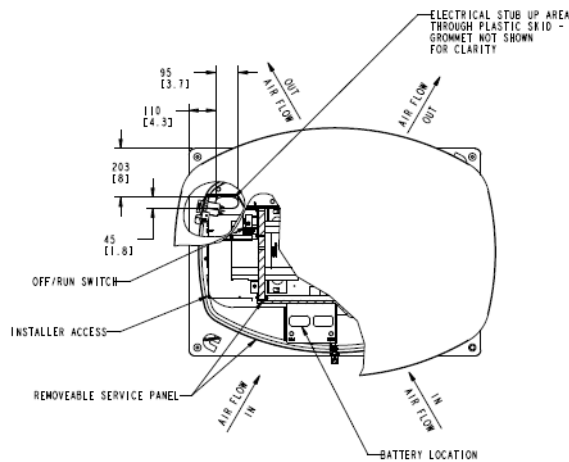


**Service entrance installation (USA and  
Canada) (100/200 A)**



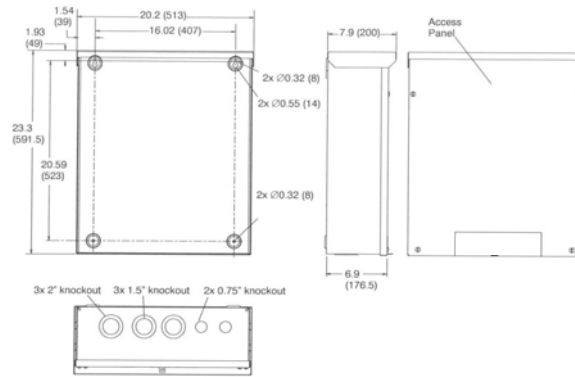
**Dedicated emergency standby service  
system (100/200 A) (USA and Canada)**

## Basic dimensions

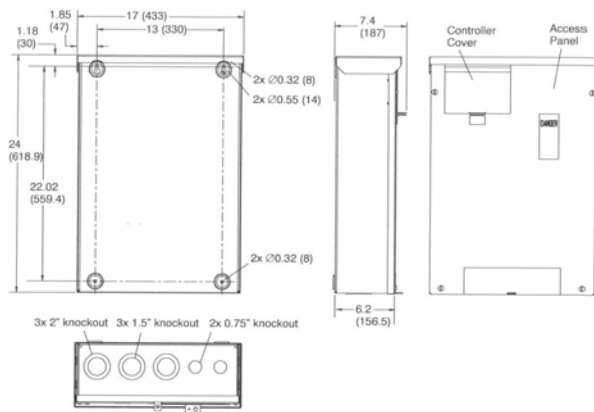


**Note:** This outline drawing (A029Z911) is provided for general reference only and is not intended for use in design or installation. For more information, see Operators and Installation manuals or contact your distributor or dealer for assistance.

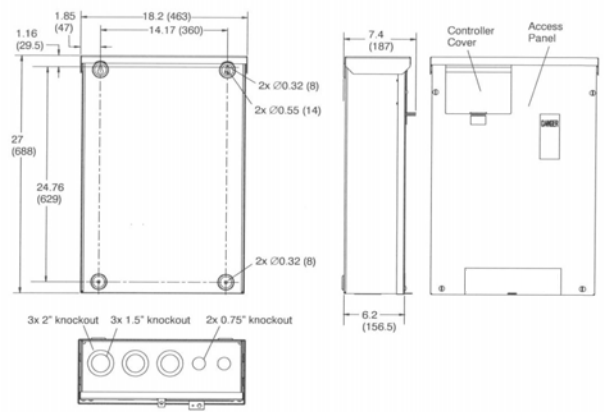
## UL 1008 Listed: RSS100-6868, RSS200-6869 (0500-4824)



## CSA/UL RSS100-6634 (0500-4502)



## CSA/UL RSS200-6635 (0500-4503)



## Options and accessories

- Additional in-home display (P/N 0300-6576)

### Climate Accessories:

- Alternator dryer kit (P/N A029J885) – humid climates
- Battery heater kit (P/N 0333-0770)

## Battery requirement

- 12 V, group 26R, 530 CCA Maintenance Free

## Warranty policy

The Cummins Power Generation RS13A and RS13AC generators come standard with a 5 year/2,000 hour limited warranty. Extended warranty options available. See warranty statement for additional details.



### 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)

- 100 and 200 amp automatic transfer switch NEMA 3R.
- Fully automatic operation with Cummins Power Generation RSS model automatic transfer switch.
- Reduces installation time with indoor/outdoor flexibility and whole house install.
- Two amp trickle battery charger included
- UL 1008 Listed Service Entrance Rated: RSS100-6868, RSS200-6869
- CSA Approved and UL 1008 Listed: RSS100-6634, RSS200-6635

## Plug-n-play installation harnesses

Generator to ATS harness:

- 1 ft. length (p/n A029U298)
- 50 ft. length (p/n A029U302)
- 100 ft. length (p/n A029U303)
- 200 ft. length (p/n A029U304)

Remote display harness:

- 1 ft. length (p/n A029U306)
- 50 ft. length (p/n A029U308)
- 100 ft. length (p/n A029U310)
- 200 ft. length (p/n A029U311)

## 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 and request the following manual numbers: Operator (A029V091), Installation (A029V090), Parts (A030A242), Service (A030A240).

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).

## Contact your distributor/dealer for more information.

North America  
1400 73rd Avenue N.E.  
Minneapolis, MN 55432  
USA  
Phone 763 574 5000  
Fax 763 574 5298

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