



RS 12000

Residential Standby GenSet

**Model 12 GHAB
Gaseous Fueled
60 Hz**



Residential GenSet

- **Very Quiet Operation - Less Than 70 dB(A) at 7 m**
- **Fully Automatic Operation When Used with our RST Automatic Transfer Panel**
- **Powered by Onan® P224 Engine**
- **Self-Diagnostic Capability**
- **Easy Installation with Innovative Molded Polymer Installation Base - There's No Need for a Concrete Pad**
- **Electronic Governor for Precise Frequency Control**

Models and Ratings

<u>Order Model</u>	<u>Fuel</u>	<u>Voltage</u>	<u>Max kW</u>	<u>Rated kW</u>	<u>Rated Amps</u>	<u>Circuit Breaker</u>
12GHAB/101	Nat. Gas	120/240	11 kW	10 kW	83.3/41.6	50-Amp, 2-Pole
	LP Vapor	120/240	12 kW	11 kW	91.6/45.8	50-Amp, 2-Pole
12GHAB/102*	LP Liquid	120/240	11 kW	10 kW	83.3/41.6	50-Amp, 2 Pole
12GHAB/452*	Nat. Gas	120/240	11 kW	10 kW	83.3/41.6	50-Amp, 2-Pole

Ratings apply to altitudes up to 500 ft (152.4 m), 77°F (25°C). Total Power available will decrease 3.5% for each 1000 ft (305 m) above sea level and 1.5% for each 10°F (5.5°C) increase in ambient temperature above 77°F (25°C). *CARB Certified

Weight, Size and Sound Level

- 600 lb (272 kg)
- Length: 42 in (1067 mm); width: 30 in (762 mm); height: 36 in (914 mm)
- GenSet w/installation base: length 45 in (1143 mm), width 34 in (864 mm), height 39 in (986 mm)
- Less than 70 dB(A) at 23 ft (7 m), average

Engine Facts

Model: Onan Performer P224

Design: 4-cycle, air-cooled, two cylinders opposed

Compression Ratio: 7.2:1

Displacement: 60 cu in (983 cc)

Cooling Air Volume: 1050 cfm

Oil Sump Capacity: 3.0 qt (2.84 L) with filter

Operating Speed: 3600 rpm

Engine Features

- Cast iron cylinder liners
 - Electronic ignition
 - Electronic governor
 - Full-pressure lubrication
 - High-capacity oil sump, spin-on oil filter
 - Piston cooling jets
 - Solenoid shift starter
 - Three-ring piston design
 - Replaceable main/camshaft bearings
 - Austenitic alloy steel exhaust valves
 - Dual element air cleaner
 - 18-amp, engine-driven battery charger
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Exhaust Muffler

- Fully enclosed exhaust silencer
 - Insulated heat shield
 - Ultra-low noise
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Control System Features

- Microprocessor control manages generator set operation, fault detection and service diagnostics
 - Illuminated Run/OFF/Auto switch
 - Running time meter
 - 50-amp UL-listed circuit breaker
 - DC control fuse
 - Convenient access to all connection points
 - Fully automatic operation
 - Two wire start
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Generator Details

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

Insulation System and Temperature Rise: Class H insulation per NEMA MG-1-1-66 (180°C maximum temperature)

Cooling: Direct-drive, centrifugal blower

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

Bearing: Double-sealed prelubricated ball bearing

DC Brushes: Electrographitic, long life, easily serviced

GenSet Performance

Voltage: 120/240 VAC, single phase, 1.0 pf

Voltage Regulation: 5% no load to full load

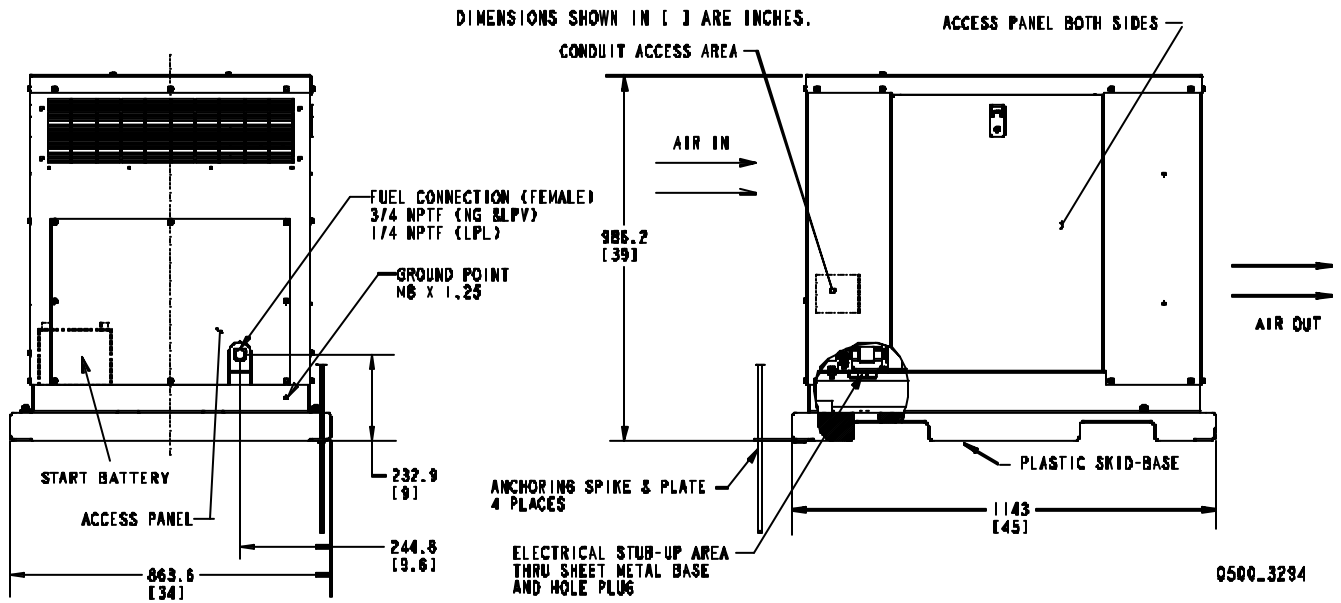
Frequency Regulation: Isochronous, 0% no load to full load

Operating Temperature Range: -20°F (-28.8°C) to 122°F (50°C)

Fuel Consumption

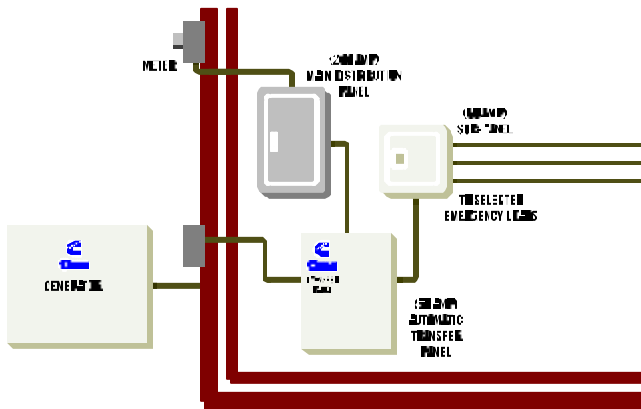
Natural Gas	ft ³ /hr	m ³ /hr	LP Vapor	ft ³ /hr	m ³ /hr	gal/hr	l/hr
25% Load:	106	3.0	25% Load:	51	1.4	1.4	5.3
50% Load:	124	3.5	50% Load:	54	1.5	1.5	5.7
75% Load:	161	4.6	75% Load:	70	1.9	1.9	7.2
Full Load:	190	5.4	Full Load:	80	2.2	2.2	8.3

Basic Dimensions

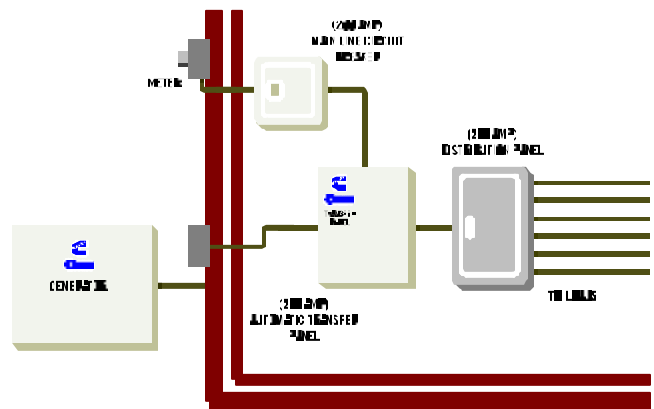


Drawing Reference Number 0500-3294

Automatic Transfer Panel Configurations



**Dedicated Emergency Standby Service System
(60 Amp)**



**Full-Service Rating Standby System
(200 Amp)**

Housing Features

- Sound-attenuated, drip-proof design; two easy-service access doors, key-lockable
- Internal starting battery tray and tie down
- Heavy-duty, 16-gauge aluminum housing; high-performance fluoropolymer finish coat system

Options and Accessories

- Battery 12 V, Group 26, 530 cca, Part #416-1051
- Battery heater kit, Part #41-0555
- Full line of complementing automatic transfer panels

Warranty Policy

The Cummins Onan RS 12000 Home Standby System comes with a one-year warranty on labor and a two-year warranty on parts. Additional five-year warranty options are available. See your certified dealer or distributor for details.

After Sale Support

GENUINE ONAN MAINTENANCE CARE PARTS AND PRODUCTS - For your ongoing satisfaction and the dependability of your Onan engine, Onan offers a complete line of parts, oil and maintenance chemicals specifically designed for Onan engines. Available at your nearby Onan dealer.

EASY TO LOCATE CERTIFIED ONAN SERVICE AND PARTS DEALERS - Onan has trained, tested and certified over 1000 authorized Onan Service Dealers covering most major metropolitan areas in the U.S. and Canada. To easily locate the certified Onan Service Dealer no matter where you travel, call 1-800-888-ONAN or look in the yellow pages under "Engines".

See your distributor for more information



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Important: Backfeed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open. 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 T-030 document for more information.)