

RS 20000

Residential Standby GenSet

Model 20 GGMA Gaseous Fueled 60 Hz



Residential GenSet

- Very Quiet Operation 66 dB(A) at 7 m
- Aluminum weather resistant housing
- Fully Automatic Operation when used with an Onan Automatic Transfer Panel
- Available for use with Natural Gas or LP Vapor
- Attractive and Discreet Housing
- Electronic Governor for Precise Frequency Control
- Includes 120 V Coolant Heater
- Listed to UL 2200

Models and Ratings

			<u>Rated</u>		<u>Rated</u>	
Order Model	<u>Fuel</u>	<u>Voltage</u>	<u>kW</u>	<u>kVa</u>	<u>Amps</u>	Circuit Breaker
20GGMA-6110	Nat. Gas	120/240	20	25	83.3	90-Amp, 2-Pole
20GGMA-6111	LP Vapor	120/240	20	25	83.3	90 Amp, 2-Pole

Ratings apply to altitudes up to 3500 ft (1829 m). 85°F (30°C). Total Power available will decrease 5% for each 1000 ft (305 m) above sea level and 1.0% for each 10°F (5.5°C) increase in ambient temperature above 85°F (30°C)

Weight, Size and Sound Level

- 1105 lb (501 kg)
- Footprint Dimensions (for recommended installation): Length: 64.4 in (635 mm);
 width: 30 in (762 mm); height: 46.7 in (1184.89 mm)
- Overall Dimensions: Length 85.3 in (2166.68 mm); width: 30 in (762 mm); height: 46.7 in (1184.89 mm)
- 66 dB(A) at 7 m, average

Site Derating Factors:

Natural Gas

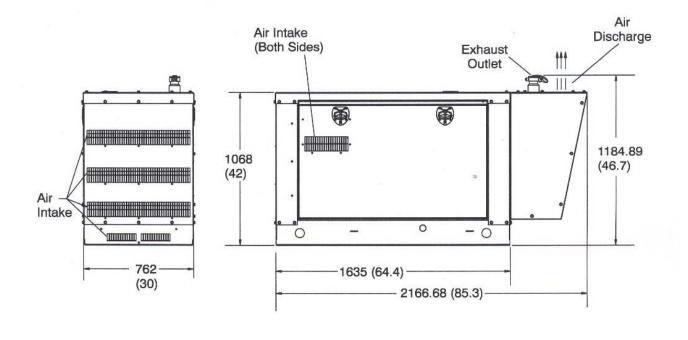
Engine power available up to 3000 ft (915 m) at ambient temperatures up to 104° F (40° C). Above 3000 ft (915 m) derate at 4% per 1000 ft (305 m), and 1.1% per 10° F (2% per 10° C) above 104° F (40° C).

Propane

Engine power available up to 3000 ft (915 m) at ambient temperatures up to 104° F (40° C). Above 3000 ft (915 m) derate at 4% per 1000 ft (305 m), and 1.1% per 10° F (2% per 10° C) above 104° F (40° C).

Engine Facts	Engine: GM Industrial, spark-ignited Design: In-line 4-cylinder, liquid-cooled Compression Ratio: 10:5:1 Displacement: 181 cu in (3.0 L)	Cooling System: 127° F (53° C)ambient cooling system Oil Sump Capacity: 4.5 qt (4.3 L) with filter Operating Speed: 1800 RPM			
Engine Features	 Electronic ignition Electronic governor Full-pressure lubrication High-capacity oil sump, spin-on oil filter 	 Solenoid shift starter 60-amp, engine-driven battery charger 			
Exhaust Muffler	Enclosed exhaust silencer	Low noise			
Control System Features	 Automatic remote starting Controls generator set starting and shutdown Control components designed to withstand the vibration levels typical in generator sets Field circuit breaker 	 High temperature, low oil pressure, overcrank and overspeed shutdowns Running time meter 90-amp UL-listed circuit breaker DC control fuse 			
Generator Details	Design: Brushless, revolving field, single bearing, 4-pole, drip-proof construction Insulation System: Class H per NEMA MG1-1.65 and BS2757 Temperature Rise: At rated load is less than 125°C at standby rating, per NEMA MG1.22.40, IEEE 115 and IEC 34-1 Exciter Type: The excitation system derives is a self (shant) excited system with the voltage directly from the generator set output. Alternator Cooling: Direct drive centrifugal blower Rotor: Supported by a pre-lubricated maintenance-free ball bearing AC Wave form Total Harmonic Distortion: less than 5% total no load to full load				
GenSet Performance	Voltage: 120/240 VAC, single phase, 1.0 pf Voltage Regulation: ±1%, no load to full load Frequency Regulation: Isochronous, 0% no load to full load Random Frequency Variation: ±0.5% @ 60 Hz Operating Temperature: -10° F (-23.3° C) or -20° F with optional coolant heater to 104° F (40° C) Fuel Consumption-Natural Gas				
Load: Cfh: m³/hr:					
Load: Cfh: m³/hr:	1/4 1/2 3/4 Full 52.8 72.3 93.1 115.6 1.5 2.0 2.6 3.3				

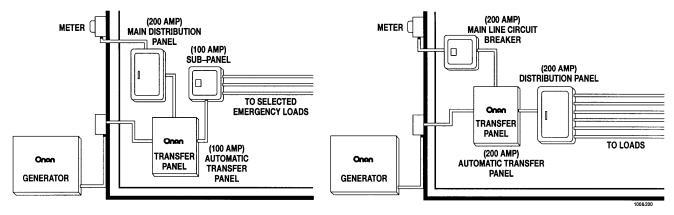
Basic Dimensions



Drawing Reference Number 0500-4511 or 500-4512

mm(in)

Automatic Transfer Panel Configurations



Dedicated Emergency Standby Service System (100 Amp)

Full-Service Rating Standby System (200 Amp)

Housing Features	 Weather protective design, two easy service access doors key-lockable Internal starting battery tray and tie down Heavy-duty aluminum housing 		
Options and Accessories	 Battery, 12 V, 325 cca (Part #416-0774) Battery heater kit (Part #333-0469) Full line of complementing automatic transfer panels 		
Warranty Policy	The Onan RS 20000 Home Standby System comes with a standard one-year warranty. Additional two and five-year warranty options are available. See your certified distributor of dealer for details.		
After Sale Support	ongoing satisfaction and the dependability of your Onan genset. Onan offers a		
	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 "generators, electric".		

See your distributor for more information



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Important: Backfeed to a utility system can cause electrocution and/or property damage. Do no 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.)