

GenSet

CMHG 8000 GenSet

Hydraulic Generator 8 kW 60 Hz



Commercial • Onan Custom Engineered Hydraulic Generator System

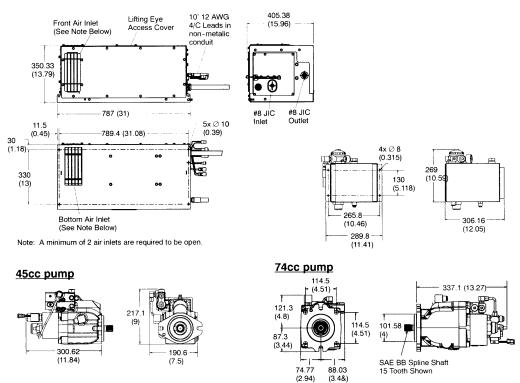
- High Motor Starting Capability
- Meets NFPA 120° F (48° C) Ambient* Standard
- Single Side Serviceability
- 100% Stainless Steel Housing/Multiple Air Inlets (4)
- Four-Point Vibration Isolated Mounting System
- Standard Hydraulic Circuit Eliminates the Need for Soft Start Accessory
- Hydraulic Circuit Design Prevents Overspeed
- Five Year, 1000 Hour Limited Warranty

Models and									
Ratings	<u>Model</u> 8RBAA-3544#	<u>Shaft</u> Keyed	<u>Hz</u> 60	<u>Watts</u> 8000	<u>Voltage</u> 120/240	<u>Amps</u> 66.6/33.3	<u>PF</u> 1.0	Phase 1	<u>Circuit Breaker</u> OEM/Distributor Supplied
	8RBAA-2654#	Keyed	60	8000	120/240	66.6/33.3	1.0	1	OEM/Distributor Supplied
	8RBAA-2283#	Spline	60	8000	120/240	66.6/33.3	1.0	1	OEM/Distributor Supplied
	8RBAA-4783+	Spline	60	8000	120/240	66.6/33.3	1.0	1	OEM/Distributor Supplied
	8RBAA-4784+	Keyed	60	8000	120/240	66.6/33.3	1.0	1	OEM/Distributor Supplied
	Code 61 adapter flam All 60 Hz models ope # Spec 3544, 2654, a (Spec 3544 has a c + Spec 4783 and 478 * Onan tested for ope air temperature me	rate at 3600 nd 2283 have cw pump). 4 have a 74 ration with co	r/min. e a 45 c cc pump poling ai	c pump S SAE BE r inlet ter	SAE B flan B flange. F nperature	ge. Require Required pur	mp sp	eed 550-	3000 r/min.
Weight, Size and Sound Level	reservoir 1	3 lb (6 kg) ength 31.0 el: 60 Hz,	in (78	57 mm),	Width 1	6.0 in (40)5 mr	n), Heig	ifold 70 lb (32 kg), ght 13.8 in (350 full load

n hydraulic tank with integral with element condition indicator breather, and fill port ing tabs for universal mounting es: ischarge duct kit (part # 541- Spec B), part # 541-0873 C)) sion harnesses (see Operation stallation manual)
vith eleme breather ing tabs fo es: ischarge o Spec B), p C)) ion harne

Factory load tested

Basic Dimensions



mm(in)

This outline drawing is provided for general reference only and is not intended for design or installation. For more information see Operation and Installation manual or obtain outline drawing 500-3452 (Spec A/B) or 500-3779 (Spec C) and wiring diagram from your Distributor/Dealer.

Alternator Detail	 Design: Onan AC, 2-pole self-excited revolving field, permanently aligned to hydraulic motor by a splined shaft Cooling: Direct drive blower wheel Rotor: Laminated electrical steel assembly press-fitted to shaft, balanced; heavy insulated, class 200 copper wire windings, optimized air gap for improved wave form and motor starting Stator: Laminated electrical steel assembly press-fitted to shaft, balanced; heavy insulated, class 200 copper wire windings, optimized air gap for improved wave form and motor starting Stator: Laminated electrical steel assembly, skewed for improved waveform; heavy insulated, class 200 copper wire windings DC brushes: Electrographic; long life Bearing: Double-sealed pre-lubricated ball bearing Exciter: Power Scan[®] regulator and bridge rectifier supply field current through slip rings
GenSet Detail	No load - full loadConstant loadVoltage Regulation (steady state±2%±0.5%conditions):62.5 to 59 Hz (60.7±1.6% orRandom Voltage Variations±2.5%)±1 HzFrequency Regulation (steady state conditions) Random Frequency Variation*********************************
Hydraulic Detail	 Cooling: High efficiency forward-inclined blade, plug fan Pressurized box with distribution volutes for optimum air velocity across heat exchanger Welded blades, 4 brace rods and epoxy powder coated for best fan durability Heat exchanger sized relative to kW Hydraulic Power: Operating flow and pressure range 8 Gal/min, 350-3000 psi Pump control is pressure compensated load sense system Solenoid operated shutoff valve Pump for specs 3544, 2654, 2283 - 45cc variable displacement Required pump speed 950-3200 r/min maximum (overdrive PTO may be required) SAE B flange 13 tooth 16/32 spline or 7/8" keyed shaft Pump for specs 4783, 4784 - 74cc variable displacement Required pump speed 550-3000 r/min maximum SAE BB flange 15 tooth 16/32 spline or 1-1/4" keyed shaft Both pumps require 23 HP from drive engine at full load Generator drive motor - fixed displacement gear Fluid Dexron III - 5 gallon total
Hydraulic Operational Schematic	HYDRAULIC HYDRAULIC LINES PUMP PTO PROPULSION ENGINE AIR OUT AIR OUT

HEAT EXCHANGER

ALTERNATOR

CABINET

Warranty Policy	The ONAN limited warranty covers virtually everything except routine maintenance for the first five years that you own your generator set, or the first 1,000 hours of operation, whichever comes first. In addition, it includes a free 90-day adjustment policy, which provides that Onan will make minor adjustments to your new genset during the first three months you own it - free of charge! Travel Time Repair Allowance: In addition to the 5-year, 1000-hour warranty, a travel time repair allowance of 2.5 hours and mileage cost up to 100 miles included for the first 2 years. For complete Onan limited warranty details see your certified Onan Distributor/Dealer.
After Sale Support	EASY TO LOCATE CERTIFIED ONAN SERVICE AND PARTS DEALERS - Onan has the largest and best-trained worldwide certified Distributor/Dealer network in the industry, offering on-time parts and service, and installation assistance. Cummins Onan Distributor/Dealers stock and sell commonly used Onan GenSet maintenance parts, accessories and products, plus operator manuals and literature on current Onan GenSets. They can help you select and install the right genset or accessories on older models, or provide answers to questions on proper operation and maintenance procedures.
	MANUALS - Operation and Installation manual is shipped with the genset. To obtain additional copies or other manuals for this model, see your Cummins Onan Distributor/Dealer and request the following part numbers: Operation and Installation Manual (943-0101), Parts Manual (943-0202), Service Manual (943-0501).
Standards and Testing	Tested at extremes of temperature -20° F to 120° F for starting and operation. Tested installed. Tested with commercial loads. Field Test Program. This generator set was designed and manufactured in facilities certified to ISO 9001. CSA certified for CSA C22.2 Std 100 and Std 14 for operation up to 40° C only.

Contact your Distributor/Dealer for more information:



Cummins Power Generation 1400 73rd Avenue N.E. Minneapolis, MN 55432 U.S.A. phone: 1-800-888-ONAN or 763-574-5000 fax: 763-528-7242 e-mail: feedback@onan.com WEB: www.onan.com.

Onan is a brand of Cummins Power Generation. Cummins Power Generation is a subsidiary of Cummins Inc. Onan is a registered trademark of Cummins Inc.

WARNING: Backfeed to utility systems can cause electrocution or property damage. Do not connect to building electrical except through approved device and after building main breaker is opened.