Specification sheet

Commercial generator set
Hydraulic Series
HG 6000

Features and benefits
- Cummins Onan custom engineered hydraulic generator set system
- High motor starting capability
- Meets NFPA 120° F (49° C) ambient* standard
- Single side serviceability
- Powder coated steel housing
- Multiple air inlets (5)
- Four-point vibration isolated mounting system
- Digitally controlled pump flow for minimal voltage and frequency variation
- Hydraulic circuit has over speed and under speed protection
- Five year, 1000 hour limited warranty

- Hall Effect sensor for frequency control (patent pending)
  - Higher sample rate of sensor improves frequency stability at all loads
  - Sensor not as susceptible to conducted emittance created by non-linear loads (variable fans or extraction tool pumps)
- Maintains better frequency control with rapid engine speed changes
- Dual valve flow control

Weight, size and sound level

| Weight: Total | 247 lb (112 kg) |
| Generator set | 179 lb (81 kg) |
| Pump | 55 lb (25 kg) |
| Reservoir | 13 lb (6 kg) |

| Size: | Length 31.0 in (787 mm), width 16.0 in (405 mm), height 13.8 in (350 mm) |

Models and ratings

<table>
<thead>
<tr>
<th>Model</th>
<th>Hz</th>
<th>Watts</th>
<th>Voltage</th>
<th>Amps</th>
<th>PF</th>
<th>Phase</th>
<th>Circuit breaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>6RBAB-2010D</td>
<td>60</td>
<td>6000</td>
<td>120/240</td>
<td>50/25</td>
<td>1.0</td>
<td>1</td>
<td>Installer supplied</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pump Model</th>
<th>Model Number</th>
<th>Rotation</th>
<th>Shaft</th>
<th>Pump Shaft Seal</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUMP-RBAB-10R15S</td>
<td>A050J880</td>
<td>RH</td>
<td>15 Tooth Spline</td>
<td>Single</td>
</tr>
<tr>
<td>PUMP-RBAB-10R1KS</td>
<td>A050J882</td>
<td>RH</td>
<td>1&quot; Keyed</td>
<td>Single</td>
</tr>
<tr>
<td>PUMP-RBAB-10L15S</td>
<td>A050J885</td>
<td>LH</td>
<td>15 Tooth Spline</td>
<td>Single</td>
</tr>
<tr>
<td>PUMP-RBAB-10L1KS</td>
<td>A050J888</td>
<td>LH</td>
<td>1&quot; Keyed</td>
<td>Single</td>
</tr>
<tr>
<td>PUMP-RBAB-10R13S</td>
<td>A050J892</td>
<td>RH</td>
<td>13 Tooth Spline</td>
<td>Single</td>
</tr>
<tr>
<td>PUMP-RBAB-10L13S</td>
<td>A050J893</td>
<td>LH</td>
<td>13 Tooth Spline</td>
<td>Single</td>
</tr>
<tr>
<td>PUMP-RBAB-10R15D</td>
<td>A050J895</td>
<td>RH</td>
<td>15 Tooth Spline</td>
<td>Dual</td>
</tr>
<tr>
<td>PUMP-RBAB-10R13D</td>
<td>A050J897</td>
<td>RH</td>
<td>13 Tooth Spline</td>
<td>Dual</td>
</tr>
</tbody>
</table>

- All 60 Hz models operate at 3600 r/min.
- Required pump speed 850-3200 r/min.

* Cummins Onan tested for operation with cooling air inlet temperature up to 120° F (49° C). Ambient is defined as the air temperature measured at the cooling air inlet to the set.

# Pumps are ordered separately from generator and are required for generator operation

Performance you rely on.™
Standard features

- **Hydraulic components:**
  - Variable displacement piston pump
  - Gear motor drive
  - Digital control maintains tight frequency control
  - Electronically controlled orifice stops fluid flow when system is off
  - Largest heat exchanger in the industry
- **Generator set housing:**
  - Powder and clear coated steel
  - Single side serviceability
  - Multiple air inlet locations (5)
  - Single side interface for all hook-ups
  - Installs without removing housing
  - Four-point vibration isolated mounting system
- **Generator set output:**
  - 120/240 single phase, 4-lead
  - 10 ft power leads in non-metallic conduit
  - Digital PWM control maintains stable frequency
  - Circuit breakers (OEM/distributor supplied)
  - Capped voltage regulator
  - Factory load tested
- **Controls and displays:**
  - Cummins Onan display by FRC with 15 ft harness; displays Hz, volt, amps, oil temperature and hours
  - Continuous on/off switch for generator set (customer supplied)
  - Solid state voltage regulation
- **Reservoir:**
  - 3 Gal hydraulic tank with integral filter
  - Filter with element condition indicator gauge, breather, and fill port
  - Mounting tabs for universal mounting
- **Accessories:**
  - Side discharge duct kit (P/N 541-0873)
  - Extension harnesses (see Operation and Installation manual)

Alternator details

- **Design:** Cummins 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, skewed for improved wave form; 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

Hydraulic details

- **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 14 Gal/min, 350-3000 psi
  - Pump control is pressure compensated load sense system
  - Solenoid PWM controls flow and closes fully when generator set is switched off
  - Required pump speed 850-3200 r/min maximum
  - Generator set requires 23.3 hp from drive engine at full load
  - Generator set drive motor – fixed displacement gear
  - Fluid Dexron III or 10 wt antiwear hydraulic oil ~5 Gal – total

Generator set performance

<table>
<thead>
<tr>
<th></th>
<th>No load – full load</th>
<th>Constant load</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Voltage regulation</strong></td>
<td>±0.5%</td>
<td>±0.5%</td>
</tr>
<tr>
<td><strong>Frequency regulation</strong></td>
<td>60.5 to 59.5 Hz (±0.75%)</td>
<td>±1.6% or ±0.5 Hz</td>
</tr>
</tbody>
</table>
Basic dimensions

Dimensions: mm (in)

Note: This outline drawing is provided for general reference only and is not intended for design or installation. For more information see Operation and Installation manuals or obtain drawing A050N691 and wiring diagram from your distributor/dealer.

Hydraulic operational schematic
Standards and testing

- Tested at extremes of temperature -20 °F (-29 °C) to 120 °F (49 °C) 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 22.2 std 100 and std 14 for operation up to 40 °C only

Warranty policy

The Cummins 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 Cummins Inc. will make minor adjustments to your new generator set during the first three months you own it - free of charge!

Warranty only applies if Cummins generator set is used with Cummins hydraulic pump.

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 is included for the first 2 years.

After sale support

Largest distributor/dealer support network

Cummins Onan generator sets are supported by the largest and best trained worldwide certified distributor/dealer network in the industry. This network of knowledgeable Cummins Onan 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 Cummins Onan distributor/dealer and request the following manual numbers: Owner’s (943-0103), Parts (943-0204).

To easily locate the nearest Cummins Onan distributor/dealer in your area, or for more information, contact us at 1-800-888-6626 (or 763-574-5000), or visit www.cumminsonan.com.

Contact your distributor/dealer for more information.

Cummins Onan

Cummins Power Generation
1400 73rd Ave. NE
Minneapolis, MN 55432 USA
Phone 1 763 574 5000
Toll-free 1 800 888 6626
Fax 1 763 574 5298
Email www.cumminsonan.com/contact

Performance you rely on.™
©2015 Cummins Power Generation Inc. All rights reserved.
Cummins®, Onan®, the “C” logo, Performance you rely on.™ and Quiet Diesel™ are servicemarks, trademarks and/or registered trademarks of Cummins Inc. Other company, product, or service names may be trademarks or service marks of others.
Specifications are subject to change without notice.
A-1495d (4/15)