Cat® G3516H
Gas Generator Sets

Image shown may not reflect actual configuration

| Bore – mm (in) | 170 (6.7) |
| Stroke – mm (in) | 215 (8.5) |
| Displacement – L (in³) | 78 (4765) |
| Compression Ratio | 12.1 |
| Aspiration | Turbocharged |
| Fuel System | Electronic Fuel Control Valve |
| Governor Type | ADEM™ A4 |

### Standard Features

**Cat® Engine**
- Robust high speed block design provides prolonged life and lower owning and operating costs
- High power density and efficiency

**Generator Set Package**
- Top tier electrical efficiency
- Lowest maintenance and overhaul costs driven by low oil consumption, extended service intervals, and reduced downtime
- Capable of ISO 8528-5 Class G1 transient performance with specified load steps
- Complete genset reliability verified through torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

**Generators**
- High-efficiency design
- Designed to match performance and output characteristics of Cat engines

**EMCP 4 Control Panels**
- User-friendly interface and navigation
- Scalable system to meet a wide range of installation requirements
- Expansion modules and site specific programming for specific customer requirements

**Warranty**
- 12 months/unlimited hour warranty for continuous ratings
- Extended service protection is available to provide extended coverage options

**Worldwide Product Support**
- Cat dealers have over 1,800 dealer branch stores operating in 200 countries
- Your local Cat dealer provides extensive post-sale support, including maintenance and repair agreements

**Financing**
- Caterpillar offers an array of financial products to help you succeed through financial service excellence
- Options include loans, finance lease, operating lease, working capital, and revolving line of credit
- Contact your local Cat dealer for availability in your region

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Continuous (@ 1.0 pf)
50 Hz ekW
2027

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G3516H Gas Generator Sets
Electric Power

Optional Equipment

**Engine**

**Air Cleaner (Single Element)**
- Installed
- Supplied loose

**Muffler**
- Industrial grade (15 dB)
- Residential grade (18 dB)
- Critical grade (25 dB)
- Spark arresting

**Starting**
- Standard batteries
- Standard electric starter(s)
- Air starter(s)
- Jacket water heater
- Oil prelube pump
- Oil level regulator

**Generators**

**Output voltage**
- 400V
- 415V
- 6000V
- 6900V
- 10500V
- 11000V

**Excitation**
- Permanent magnet (PM)

**Attachments**
- Anti-condensation heater
- Stator and bearing temperature monitoring and protection

**Power Termination**

**Type**
- Bus bar
- Circuit breaker
- 4000A
- UL
- IEC
- 3-pole
- Electrically operated

**Trip Unit**
- LSI
- LSI-G
- LSIG-P

**Enclosure**
- Weather protective
- Sound attenuated

**Attachments**
- Cold weather bundle
- DC lighting package
- AC lighting package
- Motorized louvers

**Fuel System Pressure**
- Standard gas train

**Control System**

**Controller**
- EMCP 4.3

**Attachments**
- Local annunciator module
- Remote annunciator module
- Load share module
- Remote monitoring software

**Charging**
- Battery charger – 20A
- Engine driven charging alternator

**Vibration Isolators**
- Rubber
- Spring
- Seismic rated

**Cat Connect**

**Connectivity**
- Ethernet

**Extended Service Options**

**Terms**
- 2 year
- 3 year
- 5 year
- 10 year

**Coverage**
- Silver
- Gold
- Platinum
- Platinum Plus

**Ancillary Equipment**

- Automatic transfer switch (ATS)
- Uninterruptible power supply (UPS)
- Paralleling switchgear
- Paralleling controls

**Certifications**
- UL 2200 Listed
- CSA Certified
- EU Declaration of Conformity
- EEC Declaration of Conformity

*Note: Some options may not be available on all models. Certifications may not be available with all model configurations. Consult factory for availability.*
## Package Performance

<table>
<thead>
<tr>
<th>Performance</th>
<th>Continuous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Genset power rating at 1.0 pf – ekW</td>
<td>2027</td>
</tr>
<tr>
<td>NOx Emission Level (mg/Nm³ NOx)</td>
<td>500</td>
</tr>
<tr>
<td>Performance number</td>
<td>EM1330-02</td>
</tr>
<tr>
<td>Genset efficiency</td>
<td>45.3</td>
</tr>
<tr>
<td>Thermal efficiency</td>
<td>41.3</td>
</tr>
<tr>
<td>Total efficiency</td>
<td>86.6</td>
</tr>
</tbody>
</table>

### Fuel Consumption

| 100% load with fan – MJ/ekW-hr (Btu/ekW-hr) | 7.94 (7528.0) |
| 75% load with fan – MJ/ekW-hr (Btu/ekW-hr) | 8.11 (7694.0) |
| 50% load with fan – MJ/ekW-hr (Btu/ekW-hr) | 8.52 (8074.0) |

### Cooling System

| Total jacket water circuit (JW+OC+1AC) – kW (Btu/min) | 1113 (63271) |
| Total aftercooler circuit (2AC) – kW (Btu/min) | 221 (12559) |

### Altitude Capability

| At 25°C (77°F) ambient, above sea level – m (ft) | 152 (500) |

### Exhaust System

| Exhaust temperature – engine outlet – °C (°F) | 403 (758) |
| Air flow (0°C, 101.3 kPa)/(77°F, 14.7 psia) – Nm³/bkW-hr (ft³/min) | 4 (4991) |
| Exhaust gas mass flow – kg/bkW-hr (lb/hr) | 5 (22923) |

### Heat Rejection

| Heat rejection to jacket water – kW (Btu/min) | 461 (26199) |
| Heat rejection to exhaust (LHV to 120°C/248°F) – kW (Btu/min) | 885 (50336) |
| Heat rejection to auxiliary circuit – kW (Btu/min) | 372 (21136) |
| Heat rejection to atmosphere from engine and generator – kW (Btu/min) | 138 (7505) |

### Engine Speed

| rpm | 1500 |
Weights and Dimensions

<table>
<thead>
<tr>
<th>Dim “A” mm (in)</th>
<th>Dim “B” mm (in)</th>
<th>Dim “C” mm (in)</th>
<th>Dry Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7395 (291)</td>
<td>2139 (84)</td>
<td>2402 (95)</td>
<td>18315 (40,384)</td>
</tr>
</tbody>
</table>

Note: For reference only. Do not use for installation design. Contact your local Cat dealer for precise weights and dimensions.

Ratings Definitions

Continuous Power Rating
Output available with non-varying load for an unlimited time. Average power output is 70-100% of the continuous power rating. Typical peak demand is 100% of continuous rated e kW for 100% of operating hours.

Applicable Codes and Standards

Note: Codes may not be available in all model configurations. Please consult your local Cat dealer for availability.

Fuel Rates
1. For transient response, ambient, and altitude capabilities consult your local Cat dealer.
2. Fuel pressure range specified is to the engine fuel control valve. Additional fuel train components may be required and should be considered in pressure and flow calculations.
3. For a complete reference of definitions and conditions see datasheet EM1330-02.

http://www.cat.com/powergeneration
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