**Standard Features**

**Dynamic Gas Blending™ (DGB™) System**
- DGB system automatically activates when gas supply is detected
- Reduces diesel consumption by up to 70% using gas substitution while maintaining safe engine operation
- Control system enables maximum substitution over the widest load range in the industry
- Maintains traditional diesel generator set power and transient response performance
- Accepts a wide range of gas quality and automatically adjusts to fuel quality changes, eliminating the need for field calibration
- Maintains existing diesel maintenance and overhaul intervals

**Cat® Diesel Engine**
- Designed and optimized for low fuel consumption
- Reliable performance proven in thousands of applications worldwide

**Generator Set Package**
- Accepts 100% block load in one step and meets other NFPA 110 loading requirements
- Conforms to ISO 8528-5 G2 load acceptance requirements
- Reliability verified through torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

**Alternators**
- Superior motor starting capability minimizes need for oversizing generator
- Designed to match performance and output characteristics of Cat diesel engines

---

<table>
<thead>
<tr>
<th>Prime 50 Hz kVA (e kW)</th>
<th>Continuous 50 Hz kVA (e kW)</th>
<th>Emissions Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>2275 (1820)</td>
<td>2000 (1600)</td>
<td>Optimized for Low Fuel Consumption</td>
</tr>
</tbody>
</table>

**Cooling System**
- Cooling systems available to operate in ambient temperatures up to 47°C (117°F)
- Tested to ensure proper generator set cooling

**EMCP 4 Control Panels**
- EMCP 4.3/4.4 control panel is the single-point interface for the engine, generator, and DGB functions
- 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**
- 24 months/1000-hour warranty for standby and mission critical ratings
- 12 months/unlimited hour warranty for prime and 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
## Optional Equipment

### Engine
- **Air Cleaner**
  - Single element
  - Dual element
- **Muffler**
  - Industrial grade (15 dB)

### Starting
- Standard batteries
- Oversized batteries
- Standard electric starter(s)
- Heavy duty electric starter(s)
- Air starter(s)
- Jacket water heater

### Output voltage
- 380V
- 400V
- 415V
- 3300V
- 415V
- 3300V
- 6600V
- 6900V
- 10000V
- 10500V
- 6300V
- 11000V

### Temperature Rise
- 150°C
- 125°C/130°C
- 105°C
- 80°C

### Winding type
- Random wound
- Form wound

### Excitation
- Internal excitation (IE)
- Permanent magnet (PM)

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

### Power Termination
- **Type**
  - Bus bar
  - Circuit breaker
  - 1600A
  - 2000A
  - 2500A
  - 3000A
  - 3200A
  - 4000A
  - 5000A
  - UL
  - IEC
  - 3-pole
  - 4-pole
  - Manually operated
  - Electrically operated
- **Trip Unit**
  - LSI
  - LSI-G
  - LSIG-P

### Control System
- **Controller**
  - EMCP 4.3
  - EMCP 4.4
- **Attachments**
  - Local annunciator module
  - Remote annunciator module
  - Expansion I/O module
  - Remote monitoring software

### Charging
- Battery charger – 10A
- Battery charger – 20A
- Battery charger – 35A

### Vibration Isolators
- Rubber
- Spring
- Seismic rated

### Cat Connect
- Connectivity
  - Ethernet
  - Cellular
  - Satellite

### Extended Service Options
- **Terms**
  - 2 year (prime)
  - 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
- IBC Seismic Certification
- 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.
## Performance

### Low Fuel Consumption (60°C SCAC) based on 100% Diesel, except*

<table>
<thead>
<tr>
<th>Performance</th>
<th>Prime</th>
<th>Continuous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>50 Hz</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Genset power rating with fan</td>
<td>1820 ekW</td>
<td>1600 ekW</td>
</tr>
<tr>
<td>Genset power rating with fan @ 0.8 power factor</td>
<td>2275 kVA</td>
<td>2000 kVA</td>
</tr>
<tr>
<td>Emissions</td>
<td>Low Fuel</td>
<td>Low Fuel</td>
</tr>
<tr>
<td>Performance number</td>
<td>EM2608-00</td>
<td>EM2610-00</td>
</tr>
<tr>
<td>Aftercooler (separate circuit) – °C (°F)</td>
<td>60 (140)</td>
<td>60 (140)</td>
</tr>
</tbody>
</table>

### Fuel Consumption

<table>
<thead>
<tr>
<th></th>
<th>Prime</th>
<th>Continuous</th>
</tr>
</thead>
<tbody>
<tr>
<td>100% load with fan – L/hr (gal/hr)</td>
<td>460.6 (121.7)</td>
<td>400.8 (105.9)</td>
</tr>
<tr>
<td>75% load with fan – L/hr (gal/hr)</td>
<td>340.7 (90.0)</td>
<td>301.3 (79.6)</td>
</tr>
<tr>
<td>50% load with fan – L/hr (gal/hr)</td>
<td>236.4 (62.4)</td>
<td>211.7 (55.9)</td>
</tr>
<tr>
<td>25% load with fan – L/hr (gal/hr)</td>
<td>136.4 (36.0)</td>
<td>124.1 (32.8)</td>
</tr>
</tbody>
</table>

*Gas Fuel Flow (Pressure range before regulating: 0.83-6.89 bar (12-100 psi))

| Maximum @ 85 MN – MJ/hr (Btu/min) | 9463 (149487) | 9284 (146659) |

### Cooling System

<table>
<thead>
<tr>
<th></th>
<th>Prime</th>
<th>Continuous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiator air flow restriction (system) – kPa (in. water)</td>
<td>0.12 (0.48)</td>
<td>0.12 (0.48)</td>
</tr>
<tr>
<td>Radiator air flow – m³/min (cfm)</td>
<td>2254 (79599)</td>
<td>2254 (79599)</td>
</tr>
<tr>
<td>Engine coolant capacity – L (gal)</td>
<td>233 (61.6)</td>
<td>233 (61.6)</td>
</tr>
<tr>
<td>Radiator coolant capacity – L (gal)</td>
<td>131 (34.6)</td>
<td>131 (34.6)</td>
</tr>
<tr>
<td>Total coolant capacity – L (gal)</td>
<td>364 (96.2)</td>
<td>364 (96.2)</td>
</tr>
</tbody>
</table>

### Inlet Air

<table>
<thead>
<tr>
<th></th>
<th>Prime</th>
<th>Continuous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combustion air inlet flow rate – m³/min (cfm)</td>
<td>147.5 (5208.3)</td>
<td>133.7 (4721.1)</td>
</tr>
</tbody>
</table>

### Exhaust System

<table>
<thead>
<tr>
<th></th>
<th>Prime</th>
<th>Continuous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhaust stack gas temperature – °C (°F)</td>
<td>489.0 (912.2)</td>
<td>467.8 (874.0)</td>
</tr>
<tr>
<td>Exhaust gas flow rate – m³/min (cfm)</td>
<td>395.4 (13961.6)</td>
<td>348.1 (12291.9)</td>
</tr>
<tr>
<td>Exhaust system backpressure (maximum allowable) – kPa (in. water)</td>
<td>6.7 (27.0)</td>
<td>6.7 (27.0)</td>
</tr>
</tbody>
</table>

### Heat Rejection

<table>
<thead>
<tr>
<th></th>
<th>Prime</th>
<th>Continuous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat rejection to jacket water – kW (Btu/min)</td>
<td>639 (36339)</td>
<td>583 (33155)</td>
</tr>
<tr>
<td>Heat rejection to exhaust (total) – kW (Btu/min)</td>
<td>1775 (100941)</td>
<td>1548 (88035)</td>
</tr>
<tr>
<td>Heat rejection to aftercooler – kW (Btu/min)</td>
<td>388 (22065)</td>
<td>309 (17573)</td>
</tr>
<tr>
<td>Heat rejection to atmosphere from engine – kW (Btu/min)</td>
<td>144 (8189)</td>
<td>135 (7677)</td>
</tr>
<tr>
<td>Heat rejection from alternator – kW (Btu/min)</td>
<td>83 (4713)</td>
<td>72 (4093)</td>
</tr>
</tbody>
</table>

### Emissions (Nominal)

<table>
<thead>
<tr>
<th></th>
<th>Prime</th>
<th>Continuous</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx mg/Nm³ (g/hp-h)</td>
<td>3066.9 (6.28)</td>
<td>3249.6 (6.57)</td>
</tr>
<tr>
<td>CO mg/Nm³ (g/hp-h)</td>
<td>209.8 (0.43)</td>
<td>109.1 (0.22)</td>
</tr>
<tr>
<td>HC mg/Nm³ (g/hp-h)</td>
<td>67.7 (0.14)</td>
<td>74.2 (0.15)</td>
</tr>
<tr>
<td>PM mg/Nm³ (g/hp-h)</td>
<td>19.5 (0.04)</td>
<td>13.1 (0.03)</td>
</tr>
</tbody>
</table>

### Emissions (Potential Site Variation)

<table>
<thead>
<tr>
<th></th>
<th>Prime</th>
<th>Continuous</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOx mg/Nm³ (g/hp-h)</td>
<td>3680.3 (7.54)</td>
<td>3899.6 (7.88)</td>
</tr>
<tr>
<td>CO mg/Nm³ (g/hp-h)</td>
<td>377.6 (0.77)</td>
<td>196.4 (0.40)</td>
</tr>
<tr>
<td>HC mg/Nm³ (g/hp-h)</td>
<td>90.0 (0.18)</td>
<td>98.7 (0.20)</td>
</tr>
<tr>
<td>PM mg/Nm³ (g/hp-h)</td>
<td>27.3 (0.06)</td>
<td>18.3 (0.04)</td>
</tr>
</tbody>
</table>
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>7416 (292.0)</td>
<td>2286 (90.0)</td>
<td>2360 (92.9)</td>
<td>16 490 (36,280)</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

Prime
Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated ekW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

Continuous
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 kW for 100% of the operating hours.

Applicable Codes and Standards

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

Data Center Applications
Tier III/Tier IV compliant per Uptime Institute requirements. ANSI/TIA-942 compliant for Rated-1 through Rated-4 data centers.

Fuel Rates
Diesel fuel rates are based on fuel oil of 35º API [16°C (60ºF)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29ºC (85ºF) and weighing 838.9 g/liter (7.001 lbs/U.S. gal.)