DG175 GC to DG450 GC
GAS GENERATOR SETS

The Cat® Spark-Ignited Generator Product Line For Stationary Applications
175-450 ekW, 60 Hz G14.2L and G21.9L spark-ignited engines
Trusted to power the places that drive your economy.

Our gensets are available in a range of configurations with a variety of optional equipment ranging from 175-450 ekW. They are designed to deliver clean energy in the harshest environments. Every major component must pass inspections before the entire unit is tested at and above 100 percent of the rated load for safety and operation. We ensure the products you invest in are built for the demands of your investment. And our ready-to-run packages are always backed by our global Cat® dealer network. From a fast delivery to scheduled maintenance, we promise complete dealer support for the life of your genset.
These products operate on pipeline quality natural gas designed and constructed using industrial grade parts and components.

### SPECIFICATIONS

- **60 Hz, North America** (meets U.S. EPA emission standards, listed to UL2200 and/or CSA C22.2) a spark-ignited generator product line from 175-450 eW
- **Stationary applications powered by the G14.2 L and G21.9 L spark-ignited engines.**

<table>
<thead>
<tr>
<th>14.2 L</th>
<th>Model</th>
<th>Length in (mm)</th>
<th>Width in (mm)</th>
<th>Height in (mm)</th>
<th>Weight Steel lbs (kg)</th>
<th>Weight Aluminum lbs (kg)</th>
<th>Sound Level (dBA)</th>
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<tbody>
<tr>
<td>OPEN SET</td>
<td>DG175 GC</td>
<td>127.95 (3250)</td>
<td>52.93 (1344.5)</td>
<td>67.37 (1711.2)</td>
<td>5756 (2610.9)</td>
<td>82.5</td>
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<td>DG200 GC</td>
<td>127.95 (3250)</td>
<td>52.93 (1344.5)</td>
<td>67.37 (1711.2)</td>
<td>5756 (2610.9)</td>
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<td>DG230 GC</td>
<td>138.74 (3524.1)</td>
<td>57.6 (1463.1)</td>
<td>68.04 (1728.3)</td>
<td>6364 (2887)</td>
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<td>DG250 GC</td>
<td>138.74 (3524.1)</td>
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<td>DG275 GC</td>
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<td>DG300 GC</td>
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<td>66.1 (1678)</td>
<td>6274 (2852)</td>
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<tbody>
<tr>
<td>STANDARD ENCLOSURE</td>
<td>DG175 GC</td>
<td>153.89 (3909)</td>
<td>52.73 (1339.3)</td>
<td>69.67 (1766.9)</td>
<td>6577 (2963)</td>
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<td>DG200 GC</td>
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<td>52.73 (1339.3)</td>
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<td>DG230 GC</td>
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<td>52.98 (1345.7)</td>
<td>77.8 (1976.1)</td>
<td>7538 (3420)</td>
<td>6765 (3069)</td>
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<td>DG250 GC</td>
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<td>52.98 (1345.7)</td>
<td>77.8 (1976.1)</td>
<td>7538 (3420)</td>
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<td>DG275 GC</td>
<td>174 (4437)</td>
<td>57.5 (1460)</td>
<td>77.8 (1976.1)</td>
<td>7836 (3562)</td>
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<td>DG300 GC</td>
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<td>57.5 (1460)</td>
<td>77.8 (1976.1)</td>
<td>7836 (3562)</td>
<td>7042 (3201)</td>
<td>84.6</td>
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| LEVEL 1 ACOUSTIC ENCLOSURE | DG175 GC | 180.11 (4574.7) | 52.73 (1339.3) | 69.67 (1766.9) | 6990 (3171) | 6176 (2801) | 75.7 |
| | DG200 GC | 180.11 (4574.7) | 52.73 (1339.3) | 69.67 (1766.9) | 6990 (3171) | 6176 (2801) | 75.9 |
| | DG230 GC | 200.19 (5084.7) | 57.49 (1464.4) | 77.8 (1976.1) | 8094 (3642) | 6955 (3155) | 76.4 |
| | DG250 GC | 200.19 (5084.7) | 57.49 (1464.4) | 77.8 (1976.1) | 8094 (3642) | 6955 (3155) | 77.8 |
| | DG275 GC | 200.19 (5084.7) | 57.49 (1464.4) | 77.8 (1976.1) | 8286 (3772) | 7242 (3252) | 77.7 |
| | DG300 GC | 200.19 (5084.7) | 57.49 (1464.4) | 77.8 (1976.1) | 8286 (3772) | 7242 (3252) | 78.6 |

| LEVEL 2 ACOUSTIC ENCLOSURE | DG175 GC | 154.45 (3922.9) | 53.96 (1370.6) | 93.40 (2372.3) | 7236 (3282) | 6259 (2839) | 70.8 |
| | DG200 GC | 154.45 (3922.9) | 53.96 (1370.6) | 93.40 (2372.3) | 7236 (3282) | 6259 (2839) | 71.2 |
| | DG230 GC | 180.65 (4588.4) | 57.49 (1464.4) | 107.3 (2725.4) | 8656 (3927) | 7156 (3246) | 71.6 |
| | DG250 GC | 180.65 (4588.4) | 57.49 (1464.4) | 107.3 (2725.4) | 8656 (3927) | 7156 (3246) | 72.3 |
| | DG275 GC | 180.6 (4588) | 57.5 (1460) | 107.3 (2725) | 8870 (4022) | 7487 (3403) | 74.4 |
| | DG300 GC | 180.6 (4588) | 57.5 (1460) | 107.3 (2725) | 8870 (4022) | 7487 (3403) | 75.4 |

| LEVEL 3 ACOUSTIC ENCLOSURE | DG175 GC | 207.2 (5264) | 63.7 (1618) | 128.90 (3275) | 10602 (4598) | 9638 (4372) | 70.1 |
| | DG200 GC | 207.2 (5264) | 63.7 (1618) | 128.90 (3275) | 10602 (4598) | 9638 (4372) | 70.1 |
| | DG230 GC | 207.2 (5264) | 63.7 (1618) | 128.90 (3275) | 10990 (4984) | 9976 (4525) | 70.3 |
| | DG250 GC | 207.2 (5264) | 63.7 (1618) | 128.90 (3275) | 10990 (4984) | 9976 (4525) | 70.3 |
| | DG275 GC | 207.2 (5264) | 63.7 (1618) | 128.90 (3275) | 11080 (5025) | 10118 (4889) | 70.4 |
| | DG300 GC | 207.2 (5264) | 63.7 (1618) | 128.90 (3275) | 11080 (5025) | 10118 (4889) | 70.4 |

<table>
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<tr>
<th>21.9 L</th>
<th>Model</th>
<th>Length in (mm)</th>
<th>Width in (mm)</th>
<th>Height in (mm)</th>
<th>Weight Steel lbs (kg)</th>
<th>Weight Aluminum lbs (kg)</th>
<th>Sound Level (dBA)</th>
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<tr>
<td>OPEN SET</td>
<td>DG350 GC</td>
<td>154.4 (3923)</td>
<td>71 (1803)</td>
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<td>DG400 GC</td>
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<td>DG450 GC</td>
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<td>8274 (3753)</td>
<td>93</td>
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</table>
FEATURES

ENGINE SYSTEM
General
• Dry, disposable air filter
• Radiator outlet duct adapter (open set only)
• Cat oil filters
• Flexible exhaust connection
• Factory filled oil and coolant

Fuel System
• 8-position (14.2 L); 12-position (21.9 L) electrical load center
• Engine coolant heater
• Air filter restriction indicator
• Radiator stone guard (open set only)
• 10 amp battery charger
• Oil heater
• Anti-condensation heater
• Shunt trip and auxiliary contact breaker
• Main line circuit breaker
• 2nd main line circuit breaker
• 3rd breaker system

ALTERNATOR SYSTEM
• Class H insulation material
• 2/3 pitch
• Skewed stator
• Permanent magnet excitation
• Sealed bearings
• Amortisseur winding
• Full load capacity alternator

ENGINE ELECTRICAL SYSTEM
• Battery charging alternator
• Battery cables
• Battery tray
• Solenoid activated starter motor

GENERATOR SET
• Internal genset vibration isolation
• Separation of circuits
• Standard factory testing
• Wrapped exhaust piping

ENCLOSURE (if selected)
• High performance sound-absorbing material (L1 & L2)
• Gasketed doors
• Stamped air-intake louvers

Configurable Options
• Extended factory testing
• 8-position (14.2 L); 12-position (21.9 L) electrical load center
• Engine coolant heater
• Air filter restriction indicator
• Radiator stone guard (open set only)
• 10 amp battery charger
• Oil heater
• Anti-condensation heater
• Shunt trip and auxiliary contact breaker
• Main line circuit breaker
• 2nd main line circuit breaker
• 3rd breaker system

• Enclosure types
  – Standard weather protected
  – Level-1 sound attenuation
  – Level-2 sound attenuation
  – Level-3 sound attenuation
  – All enclosure types will be offered in either steel or aluminum

• Tropical coating
• Electronic trip breakers
• Oil temperature sender with alarm
• Remote annunciator box
• Remote E-stop (break glass-type, surface mount)
• Remote E-stop (red mushroom-type, surface mount)
• Remote E-stop (red mushroom-type, flush mount)
ENGINE SYSTEM
Features include Cat air filter (dry, disposable), radiator outlet duct adapter, oil filters, flexible exhaust connection (open gensets), and are factory-filled with Caterpillar approved oil and extended life coolant.

ALTERNATOR
Full load capacity, three-phase, 12 lead and reconnectable alternator built for extended, dependable life. Features include permanent magnet excitation, amortisseur winding, skewed stator, voltage adjustment through the EMCP controller, Class H winding insulation and 2/3 pitch incorporated.

FUEL SYSTEM
Operating on pipeline quality natural gas, 7” to 11” H2O fuel pressure, stainless steel flexible fuel line (NPT thread), primary and secondary fuel shut-off solenoids, fuel pressure test port and a low fuel pressure switch (shuts the unit down in the event that fuel supply pressure is too low for proper operation).

COOLING SYSTEM
Features include a closed coolant recovery system; a factory-installed radiator, shipped with 50/50 ethylene glycol antifreeze.

CIRCUIT BREAKER & ELECTRICAL LOAD CONNECTION
Features include a molded case thermal magnetic trip breaker (sized for full unit output rating), a neutral connection (sized for full product rating), ground connection (in the customer power wiring section).

CONTROL SYSTEM
The Cat EMCP 4.2B control panel is fully equipped with all necessary engine gauges, AC meters, and warnings, providing expanded genset protection and monitoring. Additional monitoring and expansion modules provide control and protection for critical installations and applications.
FEATURES AND BENEFITS

- Control-panel-provided power metering and protective relaying along with engine and generator control and monitoring.

- Embedded with Programmable Logic Controller (PLC) functionality, which enables the genset to monitor and control other equipment within the operation.

- Includes inputs to collect supplementary data for the PLC to process when operating the genset and activating external equipment. On a remote location without the ability to supply power to the battery charger, the PLC would likewise monitor the battery voltage to start and stop the machine to preserve battery, ensuring the unit is ready to run when needed.
COMPLIANCE

- **UL2200**: Evaluated by ETL to UL Standard for Safety UL2200
- **CSA**: Designed in accordance to CSA22.2 standards
- **NFPA**: Facilitates compliance with NFPA110
- **Type 10**: Product was tested to NFPA110 Type 10
Anytime, anywhere support.

The reliable power that Cat gensets produce is matched only by the power that backs them. More than 1,800 Cat dealer outlets in 200 countries are equipped with everything you need, from installing and configuring your Cat genset to maintaining peak performance for the life of the product. System selection assistance, equipment training, parts, service expertise, and maintenance programs are available wherever and whenever you need them.

We’re built to provide integrated solutions for all your electric power needs. Your Cat dealer is equipped with a full range of products, services, and invaluable expertise to keep the genset you trust today the one you trust 20 years from now.

To find your nearest dealer, go to www.catelectricpowerinfo.com

BUILT FOR IT.