## CATERPILLAR® ENGINE SPECIFICATIONS

**I-4, 4-Stroke-Cycle-Diesel**

- **Displacement**: 4.4 L (269 cu. in.)
- **Bore**: 105 mm (4.13 in.)
- **Stroke**: 127 mm (4.99 in.)
- **Combustion**: Direct Injection
- **Aspiration**: Turbocharged-Aftercooled
- **Governor**: Electronic

**Gen Set Package Dry Weight**

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gen Set Package Dry Weight (approx)</td>
<td>1029 kg (2269 lb)</td>
</tr>
</tbody>
</table>

**Total System Capacity**

- **Cooling System**: 16.5 L (4.36 U.S. gal)
- **Lube Oil System**: 8.5 L (2.25 U.S. gal)

**Oil Change Interval**: 500 hr

**Rotation (from flywheel end)**: Counterclockwise

### STANDARD EQUIPMENT

**Air Inlet System**
Air cleaner, single element canister type with service indicator and rain cap; dry insulated turbocharger; glowplug cold start system

**Cooling System**
Heat exchanger-cooled packages with Cupro-nickel tube bundle (sized for 50°C amb. air and 32°C sea water) or keel-cooled packages (sized for 50°C ambient air); deaeration expansion tank, plate-type engine, gear-driven centrifugal jacket water pump, gear-driven self priming sea water pump, Caterpillar® Extended Life Coolant (heat exchanger-cooled packages)

**Exhaust System**
Dry insulated turbocharger, water-cooled exhaust manifolds

**Fuel System**
Primary fuel filter/water separator with NPT and BSP connectors (ship loose), secondary fuel filter (LH), fuel priming pump — electric, energize-to-run shutoff solenoid

**Generator**
12 lead reconnectable, 3 phase all models, brushless, separately excited from auxiliary winding to provide 300% short circuit current up to 10 seconds, 2/3 pitch, broad voltage band, IP23 water protection, solid state voltage regulator with integral voltage adjustment potentiometer, Class H insulation, connection poles

**Governor System**
Electronic governor

**Lube System**
Lubricating oil, oil filter (LH), dipstick (LH), fumes disposal (closed system)

**Mounting System**
Steel base frame with drip pan, anti-vibration mounts

**Starting/Charging System**
Negative isolated ground electric system

**General**
Single-side service (LH), keel-cooled gensets do not include the keel cooler(s)

### OPTIONAL ATTACHMENTS

**Control System**
Governor droop kit (selecting this kit enables paralleling with appropriate customer-supplied switchgear

**Generators & Generator Attachments**
Space heater kit, installed — 120V AC, 240V AC

**Fuel System**
Double wall fuel lines and mounted alarm reservoir

**Starting System**
Jacket water heater options, additional 12 or 24 volt starter

**Cooling System**
Remote expansion tank kit (box supplied loose)

**Sound Attenuation Enclosure**
Aluminum-framed enclosure with zinc-plated steel panels finished in tough polyester powder coating

**Marine Classification Society (MCS)**
MCS-approved packages available direct from the factory through RINa, ABS, DNV, CCS, Lloyds, GL, and BV

**General**
PGS test report @ 1.0 power factor, extra literature, storage preservation, export packing: single engine shipment to U.S., 20-foot container engine shipments, 40-foot container engine shipments
**RATING CONDITIONS**

*Ratings* are based on SAE J1228/ISO8665 standard conditions of 100 kPa (29.61 in. Hg), 25°C (77°F), and 30% relative humidity. These ratings also apply at ISO3046/1, DIN6271/3, and BS5514 conditions of 100 kPa (29.61 in. Hg), 27°C (81°F), and 60% relative humidity.

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

Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for additional information.

* Ratings at 50°C (122°F) ambient are 69 ekW (86 kVA).

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**PERFORMANCE DATA**

**50 Hz DITA**
- Fuel Consumption @ Full Power: 18.6 L/hour, 4.91 gph

**ENCLOSED SOUND DATA**

**50 Hz DINA**
- Sound levels are average sound pressure level @ 1 meter and 100% load: 70.3 db(A)

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**DIMENSIONS**

<table>
<thead>
<tr>
<th>Engine Dimensions</th>
<th>Open mm (in)</th>
<th>Enclosed mm (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Length</td>
<td>1529 (60.2)</td>
<td>1750 (68.9)</td>
</tr>
<tr>
<td>Overall Height*</td>
<td>1132 (44.6)</td>
<td>1215 (47.8)</td>
</tr>
<tr>
<td>Overall Width</td>
<td>724 (28.5)</td>
<td>1000 (39.4)</td>
</tr>
</tbody>
</table>

*Height dimension does not include remote-mounted air filter or electronic control panel.

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**CATERPILLAR GENERATOR**

- Power Factor: 1.0
- Frame: C4.4
- Insulation: Class H
- Temperature Rise @ 40°C Ambient: Class H (150°K)
- Winding Pitch Code: 2/3
- Terminals: 12 lead reconnectable
- Drip Proof: IP 23
- Air Flow 50 Hz: 0.37 m³/s (784 cfm)
- Excitation System: AREP
- Voltage Regulation: ±0.5%
- Total Harmonic Content: LL/LN <4%
- Wave Form: NEMA = TIF <50
- Wave Form: I.E.C. = THF <2%

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