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 (approx): 1076 kg (2372 lb)

Total System Capacity

- Cooling System: 17.5 L (4.62 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; glowplug cold start system

Cooling System
Radiator cooled package (sized for up to 50°C ambient air) incorporating deaeration expansion tank, plate-type engine oil cooler, gear-driven centrifugal jacket water pump, Caterpillar® Extended Life Coolant

Exhaust System
Insulated exhaust elbow, water-cooled exhaust manifold

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

Governing 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)

OPTIONAL ATTACHMENTS

Marine Classification Society (MCS) Approval
MCS approved packages available

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 81.5 ekW (102 kVA).

PERFORMANCE DATA

50 Hz DITA Fuel Consumption
@ Full Power 24.6 L/hour 6.5 gph

CATERPILLAR GENERATOR

Power Factor............................... 1.0
Frame ................................... C4.4
Insulation.............................. Class H
Temperature Rise
    @ 40°C Ambient (110%) ...... Class H (150°K)
    @ 50°C Ambient (110%) ...... Class H (140°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 (steady state) ...... ±0.5%
Total Harmonic Content LL/LN .......... <4%
Wave Form: NEMA=TIF ................. <50
Wave Form: I.E.C.=THF ................. <2%

RATING CONDITIONS

C4.4 MARINE GENERATOR SET
RADIATOR COOLED
50 Hz, 1500 rpm 82 ekW (103 kVA)

DIMENSIONS

<table>
<thead>
<tr>
<th>Package Dimensions</th>
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<tbody>
<tr>
<td>Overall Length 1861 mm</td>
<td>73.3 in</td>
</tr>
<tr>
<td>Overall Height* 1174 mm</td>
<td>46.2 in</td>
</tr>
<tr>
<td>Overall Width 821 mm</td>
<td>32.3 in</td>
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</table>

*Height dimension does not include height to electronic control panel.

C4.4 MARINE GENERATOR SET
50 Hz, 1500 rpm 82 ekW (103 kVA)
RADIATOR COOLED

Performance data is calculated in accordance with tolerances and conditions stated in this specification sheet and is only intended for purposes of comparison with other manufacturers’ engines. Actual engine performance may vary according to the particular application of the engine and operating conditions beyond Caterpillar’s control.

Power produced at the flywheel will be within standard tolerances up to 40°C (104°F) combustion air temperature measured at the air cleaner inlet, and fuel temperature up to 52°C (125°F) measured at the fuel filter base. Power rated in accordance with NMMA procedure as crankshaft power. Reduce crankshaft power by 3% for propeller shaft power.

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The International System of Units (SI) is used in this publication.

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