

50 Hz, 1500 rpm



Image may not reflect actual engine

## 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)	1029 kg (2269 lb)
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

### 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), 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

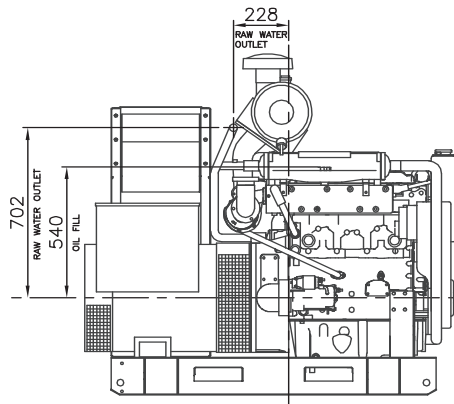
### Marine Classification Society (MCS)

MCS-approved packages available direct from the factory through RINA, ABS, DNV, CCS, Lloyds, GL, and BV

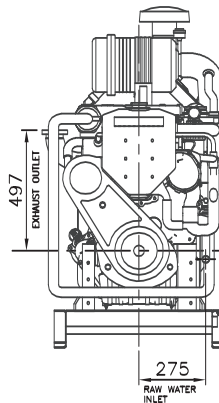
### General

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

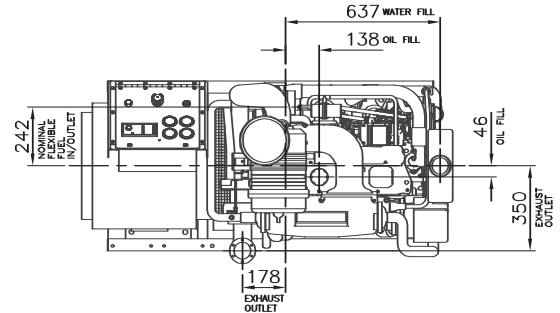
Right Side



Front



Footprint (Bottom View)



### DIMENSIONS

Engine Dimensions		
	Open mm (in)	Enclosed mm (in)
Overall Length	1529 (60.2)	1750 (68.9)
Overall Height*	1132 (44.6)	1215 (47.8)
Overall Width	724 (28.5)	1000 (39.4)

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

### 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 m <sup>3</sup> /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%

### PERFORMANCE DATA

#### 50 Hz DITA

Fuel Consumption

@ Full Power                      18.6 L/hour                      4.91 gph

### ENCLOSED SOUND DATA

#### 50 Hz DIN A

Sound levels are average sound pressure

level @ 1 meter and 100% load                      70.3 db(A)

### 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 kW (86 kVA).

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.

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