



### **SPECIFICATIONS**

I-6, 4-Stroke-Cycle-Diesel

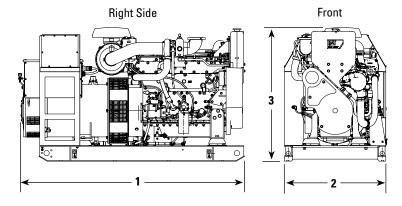
- EPA Tier 3/IMO compliant/CCNR Stage 2
- 7.01 liter displacement
- 50 Hz 1500 rpm/60 Hz 1800 rpm rated engine speed
- 105 mm (4.13 in) bore x 135 mm (5.32 in) stroke
- Turbocharged-aftercooled aspiration
- Electronically governed
- Heat exchanger or keel cooled
- Refill capacity
  - Cooling system: 38 L (10.0 U.S. gal) hex
  - Lube oil system: 21 L (5.6 gal)
- · Counterclockwise rotation from flywheel end
- 500-hour oil change interval



## STANDARD ENGINE EQUIPMENT

- Crankcase ventilation system
- Common Rail fuel system
- 12V and 24V starter motor and battery charging alternator
- Mounted air cleaner
- Integral plate-type oil cooler
- 3-phase AREP generators which provide the functionality of a permanent magnet excitation system
- EMCP4.2 control panel with remote monitoring capability
- Isolated sump
- Anti-vibration engine mounts
- · Glowplugs aid starting in cold weather
- · Gear-driven sea-water and jacket-water pumps
- Safety shutdowns for low oil pressure, high water temperature, and overspeed
- · Worldwide Extended Service Coverage (ESC) available
- 7 available ratings to cover power demand of both 50 Hz and 60 Hz
- Watercooled exhaust manifold and turbocharger

# **DIMENSIONS**



ENGINE	DIMENSIONS & WE	IGHT
(1) Length	2142-2185 mm	84.3-86.0 in
(2) Width	965 mm	38.0 in
(3) Height	1263 mm	49.7 in
Weight, Net Dry (approx)	1652-1840 kg	3634-4026 lb

Note: Do not use these dimensions for installation design. See general dimension drawings for detail.



## **MARINE ENGINE PERFORMANCE**

#### 50 Hz

% Load	ekW	g/bkW-hr	ekW	g/bkW-hr	ekW	g/bkW-hr
100	99	229.6	118.0	227.5	150.0	216.5
75	75	247.8	88.5	246.3	112.5	236.5
50	50	254.3	59.0	251.2	75.0	239.3
25	25	290.9	29.5	284.5	37.5	261.9

#### 60 Hz

% Load	ekW g/bkW-hr	ekW g/bkW-hr	ekW g/bkW-hr	ekW g/bkW-hr
100	<b>118.0</b> 233.6	<b>150.0</b> 219.4	<b>175.0</b> 219.5	<b>200.0</b> 216.4
75	88.5 248.1	112.5 232.0	131.2 229.0	150.0 225.9
50	59.0 263.5	75.0 245.9	87.5 243.5	100.0 242.7
25	29.5 308.7	37.5 280.5	43.7 276.4	50.0 274.0

## **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 with enclosed common rail and mounted alarm reservoir, duplex fuel filters

Lube System
 Duplex oil filters

## Starting System

Additional 12V or 24V electric starter, air starter, jacket water heater options

 Marine Classification Society (MCS) Approval – Pending

ABS, BV, DNV, LR, GL, PRS, RINA, CCS, RS

#### General

PGS test report @ 0.8 power factor, extra literature, storage preservation, export packing: single engine shipment to U.S., 20-foot container engine shipments, 40-foot container engine shipments

# **CATERPILLAR GENERATOR**

Power Factor
Frame
Insulation Class H
Temperature Rise
@ 40°C Ambient (110%) Class H (150°K)
@ 50°C Ambient (110%) Class H (140°K)
Winding Pitch Code
Terminals 12-lead reconnectable

Drip Proof IP	23
Air Flow 60 Hz 0.32 m³/s (678 c	fm)
Excitation System AF	ΚEΡ
Voltage Regulation (steady state) ±0.	5%
Total Harmonic Content LL/LN <	4%
Wave Form: NEMA=TIF	<50
Wave Form: I.E.C.=THF	2%

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