

# C6.6 ACERT®

## MARINE GENERATOR SET

100, 125, 143 ekW (125, 156, 178 kVA) 50 Hz  
125, 150, 170 ekW (156, 187, 212 kVA) 60 Hz



Image shown may not reflect actual engine

# CATERPILLAR®

## FEATURES AND BENEFITS

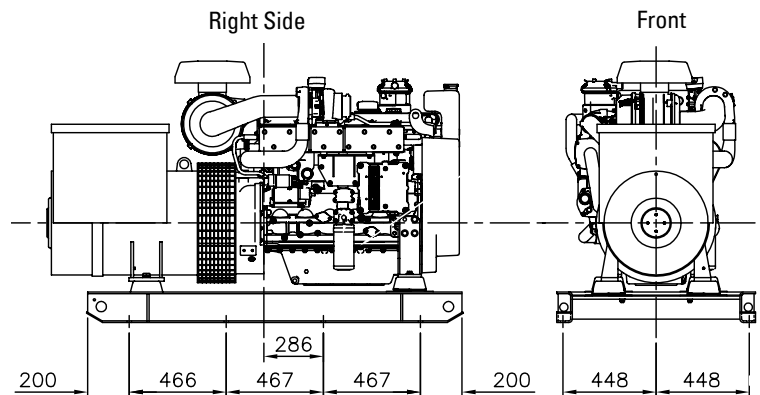
- Crankcase ventilation system
- Common rail fuel system
- 3 cooling options — heat exchanger, keel, and radiator
- 12 and 24V starter motor and battery charging alternator
- Mounted air cleaner
- 3-phase AREP generators which provide the functionality of a permanent magnet excitation system
- EMCP3 control panel with remote monitoring capability (MCS options available)
- Isolated sump
- 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
- 6 available ratings to cover power demand of both 50 Hz and 60 Hz

## SPECIFICATIONS

### I-6, 4-Stroke-Cycle-Diesel

- EPA Tier 2/IMO compliant
- 6.6 liter displacement
- 50 Hz 1500 rpm/60 Hz 1800 rpm rated engine speed
- 105 mm (4.13 in) bore x 127 mm (5.0 in) stroke
- Turbocharged aftercooled aspiration
- Electronically governed
- Radiator, keel, or heat exchanger cooled
- Refill capacity
  - Cooling system: 30 L (7.9 U.S. gal) — heat exchanger & keel cooled
  - 36L (9.5 U.S. gal) — radiator cooled
  - Lube oil system: 17.5 L (4.62 gal)
- Counterclockwise rotation from flywheel end
- 500-hour oil change interval

## DIMENSIONS



## PACKAGE DIMENSIONS & WEIGHT (RANGE)

### Length

<b>Heat Exchanger/Keel Cooled</b>	1905-2030 mm	75-79.9 in.
<b>Radiator Cooled</b>	2535-2660 mm	97-103.6 in.

### Width

<b>Heat Exchanger/Keel Cooled</b>	961 mm	37.8 in.
<b>Radiator Cooled</b>	961 mm	37.8 in.

### Height

<b>Heat Exchanger/Keel Cooled</b>	1315 mm	51.8 in.
<b>Radiator Cooled</b>	1416 mm	55.7 in.

### Weight, Net Dry (approx)

<b>Heat Exchanger/Keel Cooled only</b>	1348-1536 kg	2972-3386.15 lb
<b>Radiator Cooled</b>	1537-1667 kg	3388-3675 lb

Note: Do not use these dimensions for installation design.  
This is a preliminary document, not to be used for installation design.

### 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**  
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**  
Dry insulated turbocharger, water-cooled exhaust manifolds
- **Fuel System**  
Primary fuel filter/water separator, secondary fuel filter (LH), fuel priming pump
- **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 (RH), dipstick (RH), fumes disposal (crankcase ventilation system)
- **Mounting System**  
Anti-vibration mounts
- **Starting/Charging System**  
Negative isolated ground electric system

### 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
- **Marine Classification Society (MCS) Approval**  
MCS approved packages in process at time of print
- **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 . . . . .	0.8
Frame . . . . .	44.2/46.2
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 60 Hz . . . . .	0.32 m³/s (678 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%

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