

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



FEATURES AND BENEFITS

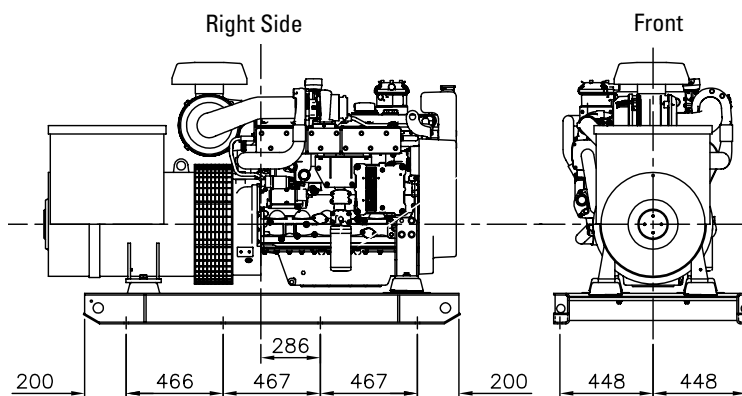
- Crankcase ventilation system
- Common Rail fuel system
- 3 cooling options — heat exchanger, keel, and radiator
- 12V and 24V starter motor and battery charging alternator
- Mounted air cleaner
- 3-phase AREP generators which provide the functionality of a permanent magnet excitation system
- EMCP3 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 | | |
|---------------------------------|--------------|-----------------|
| Heat Exchanger/Keel Cooled | 1905-2030 mm | 75-79.9 in. |
| Radiator Cooled | 2535-2660 mm | 97-103.6 in. |
| Width | | |
| Heat Exchanger/Keel Cooled | 961 mm | 37.8 in. |
| Radiator Cooled | 961 mm | 37.8 in. |
| Height | | |
| Heat Exchanger/Keel Cooled | 1315 mm | 51.8 in. |
| Radiator Cooled | 1416 mm | 55.7 in. |
| Weight, Net Dry (approx) | | |
| Heat Exchanger/Keel Cooled only | 1348-1536 kg | 2972-3386.15 lb |
| Radiator Cooled | 1537-1667 kg | 3388-3675 lb |

Note: Do not use these dimensions 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, Cat® 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 12V or 24V starter
- **Marine Classification Society (MCS) Approval**
ABS, BV, DNV, LR
- **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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