MARINE GENERATOR SET

SPECIFICATIONS

I-4, 4-Stroke-Cycle-Diesel
- EPA Tier 3 / CCNR Stage 2
- 4.4 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
- Heat exchanger or keel cooled
- Refill capacity
  - Cooling system: 21 L (5.4 U.S. gal) — hex cooled
  - Lube oil system: 11 L (2.8 gal)
- Counterclockwise rotation from flywheel end
- 500-hour oil change interval
- SAE No. 3 flywheel and flywheel housing (126 teeth)

STANDARD ENGINE EQUIPMENT
- Common Rail fuel system, primary and secondary fuel filters
- Engine mounted air cleaner and expansion tank
- Gear-driven jacket-water and auxiliary water pumps
- Watercooled exhaust manifold and turbocharger
- Integral plate-type oil cooler
- 12V or 24V starter motor
- Isolated sump
- Integrated base frame
- Anti-vibration engine mounts
- Safety shutdowns for low oil pressure, high water temperature, and overspeed
- Glowplugs aid starting in cold weather
- 3-phase AREP generators with 300% short circuit capability
- Automatic Voltage Regulator (AVR)
- EMCP4.2 control panel with remote monitoring capability

DIMENSIONS

ENGINE DIMENSIONS & WEIGHT

<table>
<thead>
<tr>
<th></th>
<th>(1) Length</th>
<th>(2) Width</th>
<th>(3) Height</th>
<th>Weight, Net Dry (Hex)</th>
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<tr>
<td>(1) Length</td>
<td>1699-1769 mm</td>
<td>956 mm</td>
<td>1245 mm</td>
<td>1142-1290 kg</td>
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<tr>
<td>(2) Width</td>
<td></td>
<td></td>
<td></td>
<td>2518-2844 lb</td>
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<tr>
<td>(3) Height</td>
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Note: Do not use these dimensions for installation design. See general dimension drawings for detail.
C4.4 ACERT™
MARINE GENERATOR SET

MARINE ENGINE PERFORMANCE

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<td>271</td>
<td>25</td>
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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, charging alternator
- **Marine Classification Society (MCS) Approval – Pending**: ABS, BV, DNV, LR, GL, RINA, CCS, NK
- **General**: PGS Test Report, extra literature, storage preservation, export packing: single engine shipment to U.S., 20-foot container engine shipments, 40-foot container engine shipments, seawater pressure sensor, exhaust elbow and bellows, exhaust gas temperature sensor

CATERPILLAR GENERATOR

- **Insulation**: Class H
- **Temperature Rise**: @ 40°C Ambient (110%) Class H (150K)
  @ 50°C Ambient (110%) Class H (140K)
- **Winding Pitch Code**: 2/3
- **Terminals**: 12-lead reconnectable
- **Ingress Protection Rating**: IP 23
- **Air Flow**: 60 Hz 0.32 m/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%
- **Standard Voltages**: ≤690V

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