



Image shown may not reflect actual engine

## **SPECIFICATIONS**

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

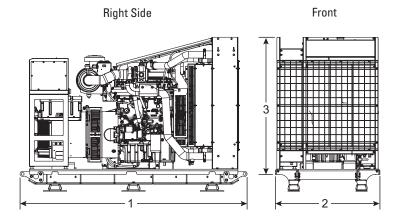
- U.S. EPA Tier 3 / CCNR Stage 2
- 4.4 liter displacement
- 50 Hz 1500 rpm/60 Hz 1800 rpm rated engine speed
- 105 mm (4.13 in) bore x 127 mm (5.0 in) stroke
- Turbocharged-aftercooled aspiration
- Electronically governed
- Radiator cooled
- Refill capacity
  - Cooling system: 33 L (8.7 U.S. gal)
  - 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
- · 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
- Same mounting positions as previous C4.4 generator set

## **DIMENSIONS**



ENGINE	DIMENSIONS & WEI	GHT
(1) Length	2037 mm	80.2 in
(2) Width	986 mm	38.8 in
(3) Height	1499 mm	59.0 in
Weight, Net Dry	1537 kg	3389 lb

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





### MARINE ENGINE PERFORMANCE

50 Hz

	EN	Л5164	EM	5165	EM5166	
% Load	ekW	g/bkW-hr	ekW	g/bkW-hr	ekW	g/bkW-hr
100	58	225.2	73	219.4	88	205.9
75	44	231.2	55	229.8	66	215.7
50	29	235.4	37	240.4	44	226.7
25	15	249.6	18	246.8	22	237.6

60 Hz

EM5167		EM5168		EM5169		EM5170		
% Load	ekW	g/bkW-hr	ekW	g/bkW-hr	ekW	g/bkW-hr	ekW	g/bkW-hr
100	51	235.2	66	224.0	90	215.2	105	210.8
75	38	245.0	50	236.8	68	222.7	79	214.0
50	26	251.9	33	252.0	45	236.1	53	224.9
25	13	273.4	17	265.0	23	252.1	26	231.9

### **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, fuel cooler

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

### **GENERATOR**

Insulation Class H	Air Flow 60 Hz 0.32 m³/s (678 cfm)
Temperature Rise	Excitation System AREP
@ 40°C Ambient (110%) Class H (150°K)	Voltage Regulation (steady state) ±0.5%
@ 50°C Ambient (110%) Class H (140°K)	Total Harmonic Content LL/LN
Winding Pitch Code	Wave Form: NEMA=TIF <50
Terminals 12-lead reconnectable	Wave Form: I.E.C.=THF
Ingress Protection Rating IP 23	Standard Voltages ≤690V

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