



Onan Marine QD 6/7.5/8 kW

Product Dimensions and Weight

Overall Length	mm (in)	664	(26.1)
Overall Width	mm (in)	583	(22.9)
Overall Height	mm (in)	535	(21.1)
Weight	kg (lb)	195	(429.0)

Dimensions and weight may vary based on selected configuration.

Ignition protected and is therefore permitted under USCG regulation 33CFR183 to be located in a gasoline fuel environment.



Power Ratings

Model	kWe	kVa*	Speed		Phase	Voltage	Amps	Fuel Consumption (L/hr (gal/hr))				Emissions
			Hz	RPM				1/4 Load	1/2 Load	3/4 Load	Full Load	
KC- and HX-Cooled Ratings												
MDKBJ	6	6	50	2400	1	110 220	54.5 27.3	1.12 (0.30)	1.46 (0.39)	1.84 (0.48)	2.28 (0.60)	—
						115 230	55.2 26.1					
						120 240	50.0 25.0					
MDKBJ	7.5	7.5	60	2900	1	120 240	62.5 31.3	1.40 (0.37)	1.84 (0.48)	2.33 (0.61)	2.93 (0.70)	EPA Tier 3
MDKBW	8	8	50	2880	1	110 220	72.7 36.4	1.41 (0.37)	1.85 (0.49)	2.35 (0.62)	2.97 (0.78)	—
						115 230	69.6 34.8					
						120 240	66.6 33.3					

Ignition protection available on MDKBJ spec D and MDKBW spec B.

Ratings below 130 kW are not subject to IMO emission regulations.

* Single phase output at 1.0 power output

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Engine Details

Design – 3-cylinder, 4-cycle, water-cooled Kubota 719 cm³ (43.88 in³) marine diesel

Fuel System – Electric fuel transfer pump for priming and lift capability. Max fuel lift of 1.22 m (4 ft)

Cooling System – Freshwater cooling system with heat exchanger, expansion tank and coolant recovery system. Coolant overflow bottle to easily maintain coolant level. Coolant capacity of 3.1 L (3.3 qt). Coolant flow rate of 35 L/min (39.2 gal/min) for 50 Hz ratings and 29 L/min (7.7 gal/min) for 60 Hz ratings

Lubrication System – Marine grade oil pan with a capacity of 3 L (3.2 qt), plus an oil drain and hose extension for ease of maintenance

Alternator Details

Design – Onan revolving field, 2-pole, drip-proof construction, with encapsulated rectifiers

Voltage Regulator – Integral with digital control

Stator – Skewed stator and 2/3 pitch windings minimize field heating and voltage harmonics; resin-coated for corrosion protection

Rotor – Dynamically balanced assembly; supported by pre-lubricated, maintenance-free ball bearings

Cooling – Rotor mounted centrifugal blower

Insulation System – Class H per NEMA MG1-1-1.65 and BS 5000, plus motor starting on MDKBW rating

Generator Set Performance

Frequency Regulation – Isochronous

Random Frequency Variation – Will not exceed +/-0.5% of its mean value for constant loads from no load to full load

Voltage Regulation – No load to rated load +/-1.5%

Communications Protocol – Optional SAE J-1939 CAN data link for monitoring generator set status, as well as engine and alternator diagnostics

Standards and Testing

- National Marine Manufacturers Association (NMMA) and American Boat and Yacht Council (ABYC) member
- This generator set was designed and manufactured in facilities certified to ISO 9001

■ Warranty Policy

The Cummins express written limited warranty covers virtually everything except routine maintenance for the first two years you own your marine generator set, and covers parts and labor on major power train and generator set parts during the third through fifth years. Optional extended warranty available.



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