



Onan Marine QD 7/9 kW

Product Dimensions and Weight

Overall Length	mm (in)	911	(35.9)	
Overall Width	mm (in)	566	(22.3)	
Overall Height	mm (in)	593	(23.4)	Housed
	mm (in)	585	(23.0)	Unhoused
Weight	kg (lb)	272	(600.0)	Housed
	kg (lb)	252	(555.0)	Unhoused

Dimensions and weight may vary based on selected configuration.



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												
MDKDL	7	7	50	1500	1	110 220 115 230 120 240	63.6 31.8 60.9 30.4 58.3 29.2	1.1 (0.3)	1.5 (0.4)	2.0 (0.5)	2.8 (0.8)	—
MDKDL	9	9	60	1800	1	120 120 240	75 75 37.5	1.3 (0.3)	1.9 (0.5)	2.6 (0.7)	3.8 (1.0)	EPA Tier 3

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

* Single phase output at 1.0 power output; three phase output at .8 power factor

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Engine Details

Design – 3-cylinder, 4-cycle, IDI water-cooled Kubota 1123 cm³ (68.58 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 4 L (4.2 qt). Coolant flow rate of 15.9 L/min (4.2 gal/min) for 50 Hz ratings and 18.9 L/min (5.0 gal/min) for 60 Hz ratings

Lubrication System – Marine grade oil pan with a capacity of 4 L (4.2 qt), plus an oil drain and hose extension for ease of maintenance

Alternator Details

Design – Onan brushless, revolving field, 4-pole; rigidly coupled to engine and permanently aligned

Voltage Regulator – Solid state, circuit board encapsulated for corrosion protection

Exciter System – Brushless with 8-pole stator mounted in endbell; rotating rectifier assemblies are encapsulated for protection from adverse environments

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

Rotor – Dynamically balanced assembly; direct-coupled to engine by flexible drive discs; supported by pre-lubricated, maintenance-free ball bearings

Cooling – Direct drive centrifugal blower

Insulation System – Class H per NEMA MG1-1-1.65 and BS 5000

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
- Lloyd's Register Type Approval for marine, offshore and industrial applications

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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