



Onan Marine QD 80/99 kW

Product Dimensions and Weight

		Housed		Unhoused	
Overall Length	mm (in)	2146	(84.5)	2142	(84.3)
Overall Width	mm (in)	840	(33.1)	822	(32.4)
Overall Height	mm (in)	1039	(40.9)	994	(39.1)
Weight	kg (lb)	1434	(3161)	1320	(2910)

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												
MDDCP	80	80	60	1800	1	120 240	666.7 333.3	7.6 (2.0)	13.2 (3.5)	18.7 (4.9)	24.2 (6.4)	-
MDDCP	80	100	60	1800	3	120 208 127 220 120 240 139 240 240 416 255 440 277 480	277.6 262.4 240.6 240.6 138.8 131.2 120.3	7.6 (2.0)	13.2 (3.5)	18.7 (4.9)	24.2 (6.4)	-
MDDCR	99	99	60	1800	1	120 240	825 412.5	9.2 (2.4)	15.5 (4.1)	22.9 (6.0)	29.4 (7.8)	-
MDDCR	99	123.75	60	1800	3	120 208 127 220 120 240 139 240 240 416 255 440 277 480	343.5 324.8 297.7 297.7 171.7 162.4 148.8	9.2 (2.4)	15.5 (4.1)	22.9 (6.0)	29.4 (7.8)	-

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 – 6-cylinder, 4-cycle, turbocharged, water-cooled marine diesel. Displacement of 6.8 L (415 in³)

Fuel System – Mechanical fuel transfer pump with manual priming lever. Max fuel lift of 3 m (10 ft)

Cooling System – Freshwater cooling system with keel cooling connections. Coolant overflow bottle to easily maintain coolant level. Coolant flow rate of 125 L/min (33 gal/min)

Lubrication System – Marine grade oil pan with a capacity of 19.4 L (20.5 qt), plus an oil drain valve for ease of maintenance

Alternator Details

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

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

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

Steady-State Frequency Band – Less than 0.5% per ISO 8528-5

Steady-State Voltage Deviation – Less than +/-1% per ISO 8528-5

Communications Protocol – 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
- Engine and alternator are Type Approved by Det Norske Veritas (DNV)

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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