Onan
Marine QD
65/80 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												
MDDCH	65	65	50	1500	1	110 | 220 115 | 230 120 | 240	590.9 | 295.5 565.2 | 282.6 541.7 | 270.8	5.7 (1.5)	9.9 (2.6)	14.1 (3.7)	18.4 (4.9)	–
MDDCH	65	81.25	50	1500	3	110 | 190 115 | 200 120 | 208 110 | 220 115 | 230 120 | 240 220 | 380 230 | 400 240 | 416 255 | 440	246.9 234.5 225.5 213.2 204.0 195.5 123.4 117.3 112.8 106.6	5.7 (1.5)	9.9 (2.6)	14.1 (3.7)	18.4 (4.9)	–
MDDCJ	80	80	50	1500	1	110 | 220 115 | 230 120 | 240	727.3 | 363.6 695.7 | 347.8 666.7 | 333.3	6.7 (1.8)	11.8 (3.1)	16.9 (4.5)	22.4 (5.9)	–
MDDCJ	80	100	50	1500	3	110 | 190 115 | 200 120 | 208 110 | 220 115 | 230 120 | 240 220 | 380 230 | 400 240 | 416 255 | 440	303.9 288.7 277.6 262.4 251.0 240.6 151.9 144.3 138.8 131.2	6.7 (1.8)	11.8 (3.1)	16.9 (4.5)	22.4 (5.9)	–

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 in^3)

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 116 L/min (31 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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