



# Onan Marine QD 6/7.5/8 kW

## Product Dimensions and Weight

|                       |         |     |         |
|-----------------------|---------|-----|---------|
| <b>Overall Length</b> | mm (in) | 664 | (26.1)  |
| <b>Overall Width</b>  | mm (in) | 583 | (22.9)  |
| <b>Overall Height</b> | mm (in) | 535 | (21.1)  |
| <b>Weight</b>         | 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   |            |
| <b>KC- and HX-Cooled Ratings</b> |     |      |       |      |       |                                     |   |                                  |             |             |             |            |
| MDKBJ                            | 6   | 6    | 50    | 2400 | 1     | 110   220<br>115   230<br>120   240 | 54.5   27.3<br>55.2   26.1<br>50.0   25.0 | 1.12 (0.30)                      | 1.46 (0.39) | 1.84 (0.48) | 2.28 (0.60) | -          |
| MDKBJ                            | 7.5 | 7.5  | 60    | 2900 | 1     | 120<br>120   240                    | 62.5<br>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<br>115   230<br>120   240 | 72.7   36.4<br>69.6   34.8<br>66.6   33.3 | 1.41 (0.37)                      | 1.85 (0.49) | 2.35 (0.62) | 2.97 (0.78) | -          |

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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## 6/7.5/8 kW

### Engine Details

**Design** – 3-cylinder, 4-cycle, water-cooled Kubota 719 cm<sup>3</sup> (43.88 in<sup>3</sup>) 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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Bulletin 5410560 Rev. 1/19  
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