



QSD2.8 Quantum Engine Series

POWER RATINGS

| Rating | HO | LD |
|-------------------|------|------|
| Metric hp | 217 | 217 |
| bhp | 214 | 214 |
| kW | 160 | 160 |
| Rated rpm | 3800 | 3800 |
| Max Torque ft-lbs | 296 | 296 |
| Max Torque N-m | 401 | 401 |
| rpm | 3800 | 3800 |



ENGINE SPECIFICATIONS

| | |
|---------------|--------------------------------------|
| Configuration | In-line 4-cylinder, 4-stroke diesel |
| Bore & Stroke | 94 mm x 100 mm (3.70 in x 3.94 in) |
| Displacement | 2.8 L (169 in ³) |
| Aspiration | Turbocharged / Sea Water Aftercooled |
| Rotation | Counterclockwise facing flywheel |

Fuel System: Bosch Common Rail (CRS 2.0);

Integrated WIF sensor in secondary fuel filter.

Lubrication System: Cast aluminum oil pan

Electrical System: 12 Volt system

Emissions: EPA Tier 2, IMO and RCD compliant

Cooling System: Sea Water Aftercooled

FEATURES AND BENEFITS

Engine Design

Hydraulic lifters need no adjustment.

Counterbalancer shafts for reduced vibration.

Full-authority electronic engine control for reduced emissions and improved fuel economy.

SmartCraft electronics for improved engine monitoring and diagnostics.

AVAILABLE ACCESSORIES

Engine Controls: Mechanical Throttle and Shift.

DTS compatible

Instrumentation: SmartCraft Digital displays and / or analog style gauges provide data on engine speed, oil pr, coolant temp, battery voltage, vessel speed, and drive trim position.

Vessel System Integration: New Vessel Interface Panel (VIP)



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ENGINE DIMENSIONS

| Length | | Width | | Height | | Weight (Dry) | |
|--------|------|-------|----|--------|------|--------------|-----|
| mm | in | mm | in | mm | in | kg | lb |
| 707 | 27.8 | 761 | 30 | 790 | 31.1 | 360 | 794 |

* Weight is engine with heat exchanger system - average.

Overall width and height; length to rear face of flywheel housing.

FUEL CONSUMPTION (PROP CURVE)

| Rating | QSD2.8-220HO | | | | QSD2.8-220LD | | | |
|--------|--------------|------|------|------|--------------|------|------|------|
| rpm | 3800 | 3600 | 3400 | 3200 | 3800 | 3600 | 3400 | 3200 |
| kW | 160 | 155 | 151 | 148 | 160 | 155 | 151 | 148 |
| l/hr | 50.0 | 40.9 | 34.1 | 28.6 | 50.0 | 40.9 | 34.1 | 28.6 |
| bhp | 214 | 208 | 203 | 198 | 214 | 208 | 203 | 198 |
| gal/hr | 13.2 | 10.8 | 9.0 | 7.6 | 13.2 | 10.8 | 9.0 | 7.6 |

Data represents performance along a 2.7 fixed pitch propeller curve. Fuel consumption has a tolerance of +5% and is based on fuel of 35° API gravity at 16°C (60°F) having an LHV of 42, 780 KJ/KG (18,390 BTU/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lb/US gal). Cummins has always been a pioneer in product improvement. Thus, specifications may change without notice. Consult your local Cummins professional for further information.

Rating Definitions

Ratings are based on ISO 8665 conditions of 100kPa (29.612 in Hg) and 25°C (77°F) and 30% relative humidity. Propeller shaft power represents the net power available after typical gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

High Output

Intended for use in variable load applications where full power is limited to one hour out of every eight hours of operation. This rating is for pleasure / non-revenue generating applications that operate less than 500 hours per year.

Light Duty

Intended for use in variable load applications where full power is limited to one hour out of every eight hours of operation. This rating is for pleasure / non-revenue generating applications that operate less than 500 hours per year.



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