

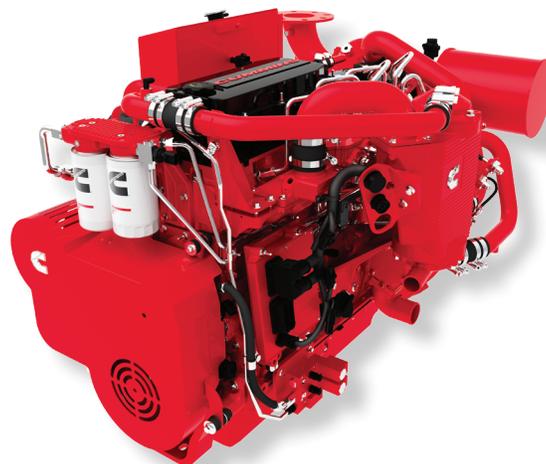


QSB6.7 / QSB7

Marine Propulsion and Auxiliary Engines
for Commercial and Government Applications

General Specifications

Configuration	In-line, 6-cylinder, 4-stroke diesel
Aspiration	Turbocharged / Aftercooled
Displacement	6.7 L (408 in ³)
Bore & Stroke	107 X 124 mm (4.21 X 4.88 in)
Rotation	Counterclockwise facing flywheel
Fuel System	High Pressure Common Rail



Product Dimensions and Weight

Overall Length	mm (in)	1263.8	(49.76)
Length of Block	mm (in)	748.0	(29.45)
Overall Width	mm (in)	910.6	(35.85)
Overall Height	mm (in)	857.0	(33.74)
Weight	kg (lb)	658	(1450)

Dimensions and weight may vary based on selected engine configuration.

Power Ratings

Engine Model	Output Power			Engine Speed RPM	Rating Definition	Fuel Consumption		Emissions			
	kW	MHP	BHP			Rated Speed L/hr (gal/hr)	ISO* L/hr (gal/hr)	IMO	EPA	EU	RCD
Variable Speed											
QSB6.7	169	230	227	3000	Intermittent	47.3 (12.5)	32.2 (8.5)	2	3	3a	—
QSB6.7	184	250	247	2600	Heavy Duty	46.9 (12.4)	33.0 (8.7)	2	3	3a	—
QSB6.7	224	305	301	2600	Medium Continuous	55.6 (14.7)	39.2 (10.4)	2	3	3a	—
QSB6.7	260	354	349	2800	Intermittent	68.1 (18.0)	47.7 (12.6)	2	3	3a	—
QSB6.7	280	380	375	3000	Intermittent	73.9 (19.5)	50.4 (13.3)	2	3	3a	—
QSB6.7	312	425	419	3000	Intermittent	82.2 (21.7)	55.0 (14.5)	2	3	3a	—
QSB6.7	353	480	473	3000	Intermittent	96.2 (25.4)	64.1 (16.9)	2	3	3a	—
QSB6.7	353	480	473	3300	Government	91.9 (24.3)	61.7 (16.3)	2	3	3a	—
QSB6.7	404	550	542	3300	Government	110.2 (29.1)	72.6 (19.2)	2	3	3a	—
Fixed Speed											
QSB7-DM	98	134	132	1800 (60 Hz)	Prime Power	28.1 (7.4)	15.0 (4.0)	—	3	—	—
QSB7-DM	112	152	150	1800 (60 Hz)	Prime Power	31.7 (8.4)	16.6 (4.4)	—	3	—	—
QSB7-DM	122	166	164	1500 (50 Hz)	Prime Power	33.4 (8.8)	17.2 (4.6)	—	3	3a	—
QSB7-DM	130	176	174	1800 (60 Hz)	Prime Power	36.0 (9.5)	18.4 (4.9)	—	3	—	—
QSB7-DM	142	193	190	1800 (60 Hz)	Prime Power	39.2 (10.4)	19.8 (5.2)	2	3	—	—
QSB7-DM	164	223	220	1500 (50 Hz)	Prime Power	46.0 (12.2)	22.7 (6.0)	2	3	3a	—
QSB7-DM	186	254	250	1800 (60 Hz)	Prime Power	51.8 (13.7)	25.2 (6.7)	2	3	—	—
QSB7-DM	210	286	282	1800 (60 Hz)	Prime Power	58.1 (15.4)	28.2 (7.4)	2	3	—	—

* Average fuel consumption based on ISO 8178 E3 Standard Test Cycle (variable speed models) and ISO 8178 D2 Standard Test Cycle (fixed speed models)

TECHNOLOGY THAT TRANSFORMS

QSB6.7 / QSB7

Marine Propulsion and Auxiliary Engines for Commercial and Government Applications

Features and Benefits

Engine Design – Robust engine designed for prime power operation and long life. Metric O-ring seals and edge molded gaskets eliminate fluid leaks. Aluminum pistons for exceptional durability

Fuel System – High Pressure Common Rail electronically-controlled fuel system provides constant high injection pressure regardless of engine speed or load condition. Benefits include low noise and vibration for quiet operation and faster load acceptance

Cooling System – Single loop, low temperature aftercooling eliminates the need for two keel coolers and lowers emissions. Tube and shell heat exchanger designed for superior durability and ease of service with minimal maintenance requirements. Fan drive available for radiator cooled configurations

Exhaust System – Cast water cooled exhaust manifold for lower surface temperatures, safety and improved performance

Air System – Rear engine-mounted water cooled turbocharger from Cummins Turbo Technologies optimized for marine applications

Lubrication System – Standard capacity (18 L [19 quart]) marine grade oil pan, plus a selection of engine mounted and remote lube filters for installation flexibility and ease of maintenance

Electronics – 12v and 24v Quantum System electronics feature a proven ECM to monitor operating parameters such as fuel consumption, duty cycle, engine load and speed, while providing diagnostics, prognostics and complete engine protection. Simplified electrical customer interface box for all vessel connections to reduce installation complexity

Certifications – Complies with U.S. EPA Tier 3 emissions regulations without the use of aftertreatment. Designed to meet the International Association of Classification Societies (IACS) and SOLAS requirements. Consult your local Cummins professional for a complete listing of available class approvals

Optional Equipment

- Front power take-off adapter
- Air and electric starting motors
- Integrated C Command HD panels with a selection of display options available to monitor and maximize operation and performance
- SAE B accessory drive
- Fully integrated type approved alarm and safety system



Cummins Inc.
4500 Leeds Avenue – Suite 301
Charleston, SC 29405-8539
U.S.A.

Phone: 1-800-CUMMINS™ (1-800-286-6467)
Internet: marine.cummins.com

[Twitter.com/CumminsEngines](https://twitter.com/CumminsEngines)
[YouTube.com/CumminsEngines](https://www.youtube.com/CumminsEngines)

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QSB6.7

MARINE PROPULSION AND AUXILIARY ENGINES

RECREATIONAL APPLICATIONS

GENERAL SPECIFICATIONS

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Aspiration	Turbocharged / Aftercooled
Displacement	6.7 L [408 in ³]
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POWER RATINGS

Engine Model	Output Power		Engine Speed RPM	Rating Definition	Fuel Consumption				Emissions			
	kW	MHP			Rated Speed L/hr (gal/hr)	ISO* L/hr (gal/hr)		IMO	EPA	EU	RCD	
Variable Speed												
QSB6.7	184	250	2600	High Output	46.9	12.4	33.0	8.7	2	3	—	2
QSB6.7	224	305	2600	High Output	55.7	14.7	39.2	10.4	2	3	—	2
QSB6.7**	261	355	2800	High Output	67.6	17.9	47.5	12.5	2	3	—	2
QSB6.7**	279	380	3000	High Output	73.9	19.5	50.4	13.3	2	3	—	2
QSB6.7**	312	425	3000	High Output	81.1	21.4	55.0	14.5	2	3	—	2
QSB6.7	353	480	3300	High Output	96.2	25.4	64.1	16.9	2	3	—	2
QSB6.7	405	550	3300	High Output	110.2	29.1	72.6	19.2	2	3	—	2

*Average fuel consumption based on ISO 8178 E3 Standard Test Cycle (variable speed models) and ISO 8178 D2 Standard Cycle (fixed speed models).

**Available with SL option package; contact your local Cummins distributor for more information.

FEATURES AND BENEFITS

Engine Design – Unmatched performance driven through a perfectly matched turbocharger and a new 24-valve cylinder head that delivers industry-leading power density. Maximise vessel performance and access comprehensive vessel diagnostic information via C Command Connect electronics. Peace of mind delivered by the Cummins Captain’s Briefing and global service network.

Fuel System – High pressure common rail with hardened components to safely operate alternative fuels such as kerosene and JP8/JP5. Quiet operation, including an 80-percent reduction in noise at idle. Enhanced sociability virtually eliminates smoke and improves the whole boating experience.

Cooling System – Single loop, low temperature aftercooling eliminates the need for two keel coolers and lowers emissions. Tube and shell heat exchanger designed for superior durability and ease of service with minimal maintenance requirements. Fan drive available for radiator cooled configurations.

Exhaust System – Cast water cooled exhaust manifold for safer operation, including lower surface temperatures, and improved performance.

Air System – Walker air filter significantly reduces noise.

Lubrication System – Front-mounted filters. Oil service interval increased to 500 hours if using ULSD fuels.

Electronics – 224v Quantum System electronics feature a proven ECM to monitor operating parameters such as fuel consumption, duty cycle, engine load and speed, while providing diagnostics, prognostics and complete engine protection. Simplified electrical customer interface box for all vessel connections to reduce installation complexity.

Certifications – Complies with U.S. EPA Tier 3 emissions regulations without the use of aftertreatment. Designed to meet the International Association of Classification Societies (IACS) and SOLAS requirements.

Consult your local Cummins professional for a complete listing of available class approvals.

OPTIONAL EQUIPMENT

- Engine Controls
- Instrumentation
- Vessel System Integration
- SL Option Package



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