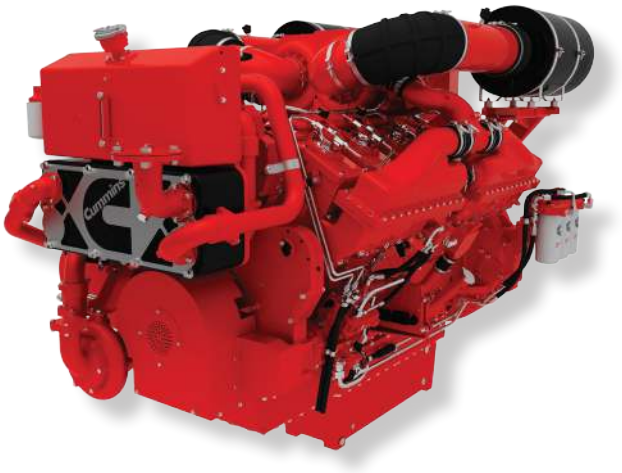
QSK38

Marine Propulsion and Auxiliary Engines for Commercial and Recreational Applications

General Specifications

Configuration	V-12 cylinder, 4-stroke diesel
Aspiration	Turbocharged / Aftercooled
Displacement	38 L (2300 in^3)
Bore & Stroke	159 X 159 mm (6.25 X 6.25 in)
Rotation	Counterclockwise facing flywheel
Fuel System	High Pressure Common Rail



Product Dimensions and Weight

Overall Length	mm (in)	2282.4	(89.86)
Length of Block	mm (in)	1546.9	(60.90)
Overall Width	mm (in)	1573.4	(61.95)
Overall Height	mm (in)	2241.8	(88.26)
Weight	kg (lb)	4850	(10,692)

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											
QSK38-M1	746	1014	1000	1800	Continuous	191.7 (50.6)	143.9 (38.0)	2	3	—	—
QSK38-M1	746	1014	1000	1800	Continuous	185.6 (49.0)	136.6 (36.1)	2	—	3a	—
QSK38-M1	969	1318	1300	1600	Continuous	247.4 (65.3)	183.6 (48.5)	2	3	—	—
QSK38-M1	969	1318	1300	1600	Continuous	235.8 (62.3)	169.9 (44.9)	2	—	3a	—
QSK38-M1	969	1318	1300	1800	Continuous	247.6 (65.4)	182.8 (48.3)	2	3	—	—
QSK38-M1	969	1318	1300	1800	Continuous	248.4 (65.6)	170.8 (45.1)	2	—	3a	—
QSK38-M1	1044	1420	1400	1600	Heavy Duty	251.3 (66.4)	181.3 (47.9)	2	—	3a	—
QSK38-M1	1044	1420	1400	1800	Heavy Duty	271.4 (71.7)	194.4 (51.4)	2	3	—	—
QSK38-M1	1044	1420	1400	1800	Heavy Duty	261.2 (69.0)	182.3 (48.2)	2	—	3a	—
QSK38-M1	1044	1420	1400	1900	Heavy Duty	265.4 (70.1)	194.4 (51.4)	2	3	—	—
QSK38-M1	1044	1420	1400	1900	Heavy Duty	257.5 (68.0)	183.5 (48.5)	2	—	3a	—
Fixed Speed											
QSK38-DM1	984	1338	1320	1500 (50 Hz)	Prime Power	234.3 (61.9)	124.6 (32.9)	2	—	3a	—
QSK38-DM1	1044	1420	1400	1800 (60 Hz)	Prime Power	262.6 (69.4)	144.2 (38.1)	2	3	—	—
QSK38-DM1	1044	1420	1400	1800 (60 Hz)	Prime Power	252.5 (66.7)	135.8 (35.9)	2	—	3a	—

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

QSK38

Marine Propulsion and Auxiliary Engines
for Commercial and Recreational Applications

Features and Benefits

Engine Design – Reliable base engine uses common components from the proven K19, K38 and K50 engines. A new cast-iron, ductile single-piece piston with nitride-coated rings and hardened cylinder liner provides excellent durability and long life

Fuel System – Modular Common Rail Fuel System features a simplified design which provides constant high injection pressure regardless of engine speed or load condition. Benefits include low noise and vibration for quiet operation, idle stability and low-end torque

Cooling System – Two-pump, two-loop, low temperature aftercooling maximizes efficiency and improves performance. Engine-mounted titanium plate heat exchanger provides superior durability with minimal maintenance requirements

Exhaust System – Dry-shielded exhaust manifold and turbocharger. Vertical or horizontal exhaust connections available for installation flexibility

Air System – Turbocharger optimized for vessel operating conditions and safety. Mounted or remote marine grade air cleaner with replaceable canister reduces maintenance cost

Lubrication System – Standard capacity 151 L (40 gal) and high capacity 204 L (54 gal) marine grade oil pan. Handed Cummins spin-on oil filters available for easy accessibility and servicing

Electronics – 24v Quantum System electronics feature an ECM to monitor operating parameters, while providing diagnostics, prognostics and complete engine protection. Simplified electrical customer interface box for all vessel connections to reduce installation complexity

Certifications – Complies with IMO Tier II, EPA Tier 3 and EU Stage IIIa emissions regulations. 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

- C Command panels
- ELIMINATOR™ oil filtration system
- Premium coolant hose connections
- Duplex lube oil and fuel filtration
- SAE A or B (keel cooled only) accessory drives
- Front PTO adaptor
- CENTINEL oil management system
- Pre-Lube with QuickEvac
- Air or electric starter
- Rigid or flexible mounting arrangements

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

Internet: marine.cummins.com

Bulletin 4986141 11/15