



K38-M / KTA38

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	Pressure Time (PT)



Product Dimensions and Weight

Overall Length	mm (in)	2152	(84)
Length of Block	mm (in)	1547	(61)
Overall Width	mm (in)	1462	(58)
Overall Height	mm (in)	2083	(82)
Weight	kg (lb)	4218	(9300)

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											
KTA38-M0	559	761	750	1600	Continuous	145.4 (38.4)	102.6 (27.1)	1	-	-	-
KTA38-M0	597	811	800	1800	Continuous	155.6 (41.1)	106.4 (28.1)	1	-	-	-
KTA38-M0	634	862	850	1800	Continuous	162.1 (42.8)	115.9 (30.6)	1	-	-	-
K38-M	634	862	850	1800	Continuous	161.0 (42.5)	113.5 (30.0)	2	-	3a	-
KTA38-M1	671	913	900	1600	Continuous	169.6 (44.8)	120.0 (31.7)	1	-	-	-
K38-M	746	1014	1000	1800	Continuous	189.2 (48.6)	128.7 (34.1)	2	-	3a	-
KTA38-M1	746	1014	1000	1800	Continuous	185.1 (48.9)	132.3 (34.9)	1	-	-	-
KTA38-M2	783	1065	1050	1600	Continuous	201.5 (53.2)	138.0 (36.5)	1	-	-	-
KTA38-M1	821	1115	1100	1800	Heavy Duty	200.3 (52.9)	144.8 (38.3)	1	-	-	-
KTA38-M2	895	1217	1200	1800	Continuous	224.4 (59.3)	153.1 (40.4)	1	-	-	-
KTA38-M2	895	1217	1200	1800	Continuous	230.1 (60.8)	162.0 (42.8)	2	-	-	-
KTA38-M2	969	1318	1300	1800	Heavy Duty	239.2 (63.2)	153.1 (40.4)	1	-	-	-
KTA38-M2	1007	1369	1350	1900	Heavy Duty	251.5 (66.4)	172.6 (45.6)	1	-	-	-
KTA38-M2	1007	1369	1350	1900	Heavy Duty	260.3 (68.8)	181.4 (47.9)	2	-	-	-
KTA38-M2	1007	1369	1350	1950	Heavy Duty	247.1 (65.3)	181.1 (47.8)	1	-	-	-
KTA38-M2	1044	1420	1400	1950	Medium Continuous	256.7 (67.8)	179.0 (47.3)	1	-	-	-
KTA38-M2	1119	1521	1500	2050	Intermittent	279.0 (73.7)	197.6 (52.2)	1	-	-	-

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

Please go to page 2 for Fixed Speed ratings.

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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
Fixed Speed											
KTA38-D(M)	634	862	850	1500 (50 Hz)	Prime	160.0 (42.3)	84.3 (22.3)	-	-	-	-
KTA38-D(M)	664	902	890	1500 (50 Hz)	Prime	167.0 (44.2)	87.5 (23.1)	-	-	-	-
KTA38-D(M1)	746	1014	1000	1500 (50 Hz)	Prime	176.8 (46.7)	91.7 (24.2)	1	-	-	-
KTA38-D(M)	768	1044	1030	1800 (60 Hz)	Prime	195.0 (51.5)	104.4 (27.6)	-	-	-	-
KTA38-D(M)	806	1095	1080	1500 (50 Hz)	Prime	194.0 (51.3)	103.7 (27.4)	-	-	-	-
KTA38-D(M)	809	1100	1085	1800 (60 Hz)	Prime	204.4 (54.0)	108.6 (28.7)	-	-	-	-
KTA38-D(M1)	821	1115	1100	1800 (60 Hz)	Prime	195.7 (51.7)	104.0 (27.5)	1	-	-	-
KTA38-D(M)	880	1197	1180	1500 (50 Hz)	Prime	208.6 (55.1)	109.4 (28.9)	-	-	-	-
KTA38-D(M1)	880	1197	1180	1500 (50 Hz)	Prime	206.3 (54.5)	104.1 (28.8)	1	-	-	-
KTA38-D(M1)	880	1197	1180	1500 (50 Hz)	Prime	216.7 (57.2)	115.2 (30.4)	2	-	-	-
KTA38-D(M)	910	1237	1220	1800 (60 Hz)	Prime	217.7 (57.5)	116.8 (30.9)	-	-	-	-
KTA38-D(M1)	970	1318	1300	1800 (60 Hz)	Prime	240.0 (63.4)	129.3 (34.2)	1	-	-	-
KTA38-D(M1)	970	1318	1300	1800 (60 Hz)	Prime	243.2 (64.2)	132.2 (34.9)	2	-	-	-
KTA38-D(M)	1007	1369	1350	1800 (60 Hz)	Prime	244.5 (64.6)	131.6 (34.8)	-	-	-	-

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

Features and Benefits

Engine Design – Low profile for ease of installation and service. Replaceable wet cylinder liners offer longer life and lower rebuild cost

Fuel System – Cummins PT fuel system can be operated mechanically or with CENTRY electronics for precise engine fueling. Step Timing Control (STC) allows for smooth engine acceleration under load

Cooling System – Keel cooled or engine mounted plate heat exchanger for reduced installation cost and less maintenance. Spin-on Cummins water treatment filters for protection against cooling system corrosion

Exhaust System – Dry exhaust manifold with water shielding for reduced fuel consumption and improved performance

Air System – Marine grade air filters with air inlet restriction indicator. Twin Cummins turbochargers optimized for marine usage

Lubrication System – Standard (114 L [30 gal]) or high capacity (185 L [49 gal]) marine grade oil pan. Cummins spin-on oil filter cartridge available handed for simplified service

Electronics – 24v standard electrical system with 12V option available. Marine grade wiring harness

Certifications – Complies with either IMO Tier 1, IMO Tier 2 or EU Stage 3a emissions regulations as indicated. Certificates of compliance are available from the U.S. EPA and Lloyd's Register of Shipping. Designed to meet SOLAS requirements. Consult your local Cummins professional for a complete listing of current marine agency approvals for this engine

Optional Equipment

- CENTINEL™ oil management system
- Prelub starter protects against dry starts
- Direct mounted front power take-off
- Duplex lube filtration
- Engine room and pilot house panel with analog gauges
- ELIMINATOR™



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Bulletin 4087448 4/16
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