

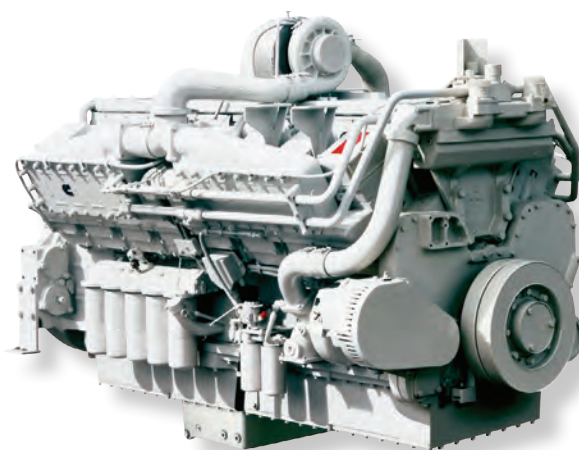


KTA50

Marine Propulsion and Auxiliary Engines for Commercial and Recreational Applications

General Specifications

Configuration	V-16 cylinder, 4-stroke diesel
Aspiration	Turbocharged / Aftercooled
Displacement	50 L (3067 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)	2694	(106)
Length of Block	mm (in)	2045	(81)
Overall Width	mm (in)	1564	(62)
Overall Height	mm (in)	2260	(89)
Weight	kg (lb)	5166	(11389)

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											
KTA50-M2	1044	1420	1400	1600	Continuous	261.3 (69.0)	179.0 (47.3)	1	-	-	-
KTA50-M2	1193	1622	1600	1800	Continuous	290.7 (76.8)	209.1 (55.2)	1	-	-	-
KTA50-M2	1193	1622	1600	1800	Continuous	303.6 (80.2)	209.5 (55.3)	2	-	-	-
KTA50-M2	1193	1622	1600	1900	Heavy Duty	299.7 (79.2)	208.5 (55.1)	1	-	-	-
KTA50-M2	1268	1724	1700	1800	Heavy Duty	309.9 (81.9)	221.2 (58.4)	1	-	-	-
KTA50-M2	1342	1825	1800	1900	Heavy Duty	336.0 (88.8)	232.8 (61.5)	1	-	-	-
KTA50-M2	1342	1825	1800	1900	Heavy Duty	345.4 (91.2)	236.7 (62.5)	2	-	-	-
KTA50-M2	1398	1901	1875	1950	Medium Continuous	348.0 (91.9)	248.6 (65.7)	1	-	-	-
Fixed Speed											
KTA50-D(M)	880	1197	1180	1500 (50 Hz)	Prime	217.3 (57.4)	116.8 (30.9)	-	-	-	-
KTA50-D(M)	900	1223	1206	1500 (50 Hz)	Prime	252.9 (66.8)	N/A	-	-	-	-
KTA50-D(M)	1000	1359	1340	1800 (60 Hz)	Prime	N/A	N/A	-	-	-	-
KTA50-D(M1)	1007	1369	1350	1500 (50 Hz)	Prime	228.9 (60.5)	118.9 (31.4)	1	-	-	-
KTA50-D(M)	1007	1369	1350	1800 (60 Hz)	Prime	N/A	138.1 (36.5)	-	-	-	-
KTA50-D(M)	1097	1491	1470	1500 (50 Hz)	Prime	253.6 (67.0)	134.1 (35.4)	-	-	-	-
KTA50-D(M1)	1097	1491	1470	1500 (50 Hz)	Prime	267.0 (70.5)	141.4 (37.3)	1	-	-	-
KTA50-D(M1)	1097	1491	1470	1500 (50 Hz)	Prime	275.9 (72.9)	141.9 (37.5)	2	-	-	-

* 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 additional 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 (continued)											
KTA50-D(M1)	1141	1551	1530	1800 (60 Hz)	Prime	262.7 (69.4)	138.6 (36.6)	1	-	-	-
KTA50-D(M)	1220	1658	1635	1800 (60 Hz)	Prime	282.0 (74.5)	153.7 (40.6)	-	-	-	-
KTA50-D(M1)	1291	1754	1730	1800 (60 Hz)	Prime	320.8 (84.7)	168.6 (44.6)	1	-	-	-
KTA50-D(M1)	1291	1754	1730	1800 (60 Hz)	Prime	314.6 (83.1)	161.4 (42.6)	2	-	-	-

* 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. Gallery cooled pistons for maximum durability

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 (151 L [40 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 and 2 emissions regulations as indicated. Certificates of compliance are available from the U.S. EPA and Lloyd's Register of Shipping. 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 and fuel filtration
- Engine room and pilot house panel with analog gauges



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