

RUN HARD. DREAM BIG.™



# KTA19-M4

M A R I N E

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## ENGINE SPECIFICATIONS

Configuration	In-line 6 Cylinder, 4-Stroke Diesel
Bore & Stroke	159 mm x 159 mm (6.25 in x 6.25 in)
Displacement	19 L (1150 in <sup>3</sup> )
Compression Ratio	13.8:1
Rotation	Counterclockwise facing flywheel
Oil Pan Capacity	72 L (19 gallons)

## POWER RATINGS

Rating	Medium Duty*
Rated RPM	2100
kW (BHP)	522 (700)
Max Torque N·m (ft·lb) RPM	2586 (1907) 1900

\*Ratings are IMO emissions compliant.

## STANDARD FEATURES

### Engine Design

Rugged in-line six cylinder configuration. Four cycle design for quiet, fuel efficient operation. Replaceable wet cylinder liners for longer life and lower rebuild costs. Individual, 4 valve design cylinder heads for improved economy and performance. Gallery cooled pistons for maximum durability.

### Cooling System

Keel cooled or engine mounted heat exchanger system available. Spin-on Fleetguard® water treatment filters for protection against cooling system corrosion.

### Air System

Top mounted Holset turbocharger with forward facing exhaust connection, optimized for marine usage. Marine grade air cleaner with air inlet restriction indicator. Low temperature aftercooler for increased efficiency. Cast iron water cooled exhaust manifold.

### Fuel System

Dependable Cummins PT® fuel system can be operated mechanically or with CENTRY electronics for enhanced engine fueling. Dual spin-on Fleetguard® fuel filters. Premium fuel injectors utilize ceramic components for increased durability.

### Lubrication System

Marine grade cast aluminum lube oil pan (72 L [19 gal]) Fleetguard® spin-on oil filters for simplified service.

### Electrical System

24 volt standard electrical system with 12 volt options available. Marine grade wiring harness. Engine alarms/switches for low oil pressure and high water temperature for safe operation.

### IMO Emissions Certified

Certificates of compliance available from the U.S. EPA and Lloyd's Register of Shipping.

## AVAILABLE ACCESSORIES

### Front Power Take-Off

### Belt or Gear Driven Accessory Drives

**Pre-lub Starter** protects engine against damage from dry starts

### Flywheel Housing SAE 0

**Classification Society Approvals:** consult your local Cummins professional for a complete listing of current marine agency approvals for this engine.

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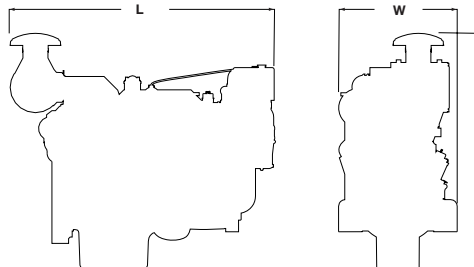
522 KW

700 HP



## ENGINE DIMENSIONS

Length		Width		Height		Weight	
mm	in	mm	in	mm	in	kg	lb
1820.7	71.68	1003.3	39.50	1904.5	74.98	KC: 2073	4570
						HX: 2251	4962



## PERFORMANCE DATA

Rating	Medium Continuous Duty 700 bhp*			
	2100	1900	1700	1500
rpm	2100	1900	1700	1500
kW	522	386	277	190
g/kW-hr	226	210	214	212
L/hr	140.6	96.8	70.8	48.1
bhp	700	518	371	255
lb/hp-hr	.371	.346	.353	.349
gal/hr	37.1	25.6	18.7	12.7

\*Ratings are IMO emissions compliant.

Above data represents performance along a 3.0 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). Observed horsepower is certified within ± 3 % of rated horsepower. 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.

### Medium Continuous Duty

Intended for continuous use in variable load applications where full power is limited to six hours out of every twelve hours of operation. Also, reduced power operations must be at or below 200 rpm of the maximum rated rpm. This rating is an ISO 3046 fuel stop power rating and is for applications that operate less than 3,000 hours per year.



Cummins Marine, Division of Cummins Inc.  
4500 Leeds Avenue - Suite 301, Charleston, South Carolina 29405 U.S.A.

www.cummins.com  
E-mail: wavemaster@cummins.com

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