

6BT5.9

Marine Auxiliary Engine for Commercial Applications

General Specifications

Configuration	In-line, 6-cylinder, 4-stroke diesel
Aspiration	Turbocharged
Displacement	5.9 L (359 in ³)
Bore & Stroke	102 X 120 mm (4.02 X 4.75 in)
Rotation	Counterclockwise facing flywheel
Fuel System	In-line Injection Pump



Product Dimensions and Weight

Overall Length	mm (in)	1020	(40)
Length of Block	mm (in)	748	(29)
Overall Width	mm (in)	601	(24)
Overall Height	mm (in)	1201	(47)
Weight	kg (lb)	426	(940)

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
Fixed Speed											
6BT5.9-D(M)	78	105	104	1500 (50 Hz)	Prime	19.8 (5.2)	10.7 (2.8)	N/A	-	-	-
6BT5.9-D(M)	91	124	122	1500 (50 Hz)	Prime	22.4 (5.9)	11.3 (3.0)	N/A	-	-	-
6BT5.9-D(M)	91	124	122	1800 (60 Hz)	Prime	23.4 (6.2)	12.7 (3.3)	-	-	-	-
6BT5.9-D(M)	112	152	150	1800 (60 Hz)	Prime	27.1 (7.2)	14.0 (3.7)	-	-	-	-

Ratings below 130 kW are not subject to IMO emission regulation.

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

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Features and Benefits

Engine Design – Robust engine block designed for continuous duty operation and long life. Single cylinder head with four valves per cylinder enhances performance

Fuel System – Rotary fuel pump with optional electronic governor for precise fueling and engine speed

Cooling System – Single loop keel cooling or engine mounted heat exchanger available for simplified installation. Optional fan drive for radiator applications

Exhaust System – Water cooled exhaust manifold reduces emissions and cools engine surface temperatures

Air System – Cummins turbocharger optimized for marine applications. Jacket water aftercooled

Cummins is a pioneer in product improvement. Thus specifications may change without notice. Illustrations may include optional equipment.

Lubrication System – Standard capacity (14.2 L [3.8 g]) oil pan available with rear, front or center sump for installation flexibility. Spin on Cummins lube filters

Electronics – 24v standard electrical system with 12V option available

Certifications – Marine Classification Society approvals from IACS members and SOLAS compliant configurations available; check with your local Cummins professional for a current list of certifications available on this engine

Optional Equipment

- Engine mounted and remote instrument panels
- Remote duplex oil and fuel filters
- Power take-off available from front of crankshaft
- SAE A or B power take-off