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 in³)
- **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**

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Output Power kW</th>
<th>Output Power MHP</th>
<th>Output Power BHP</th>
<th>Engine Speed RPM</th>
<th>Rating Definition</th>
<th>Fuel Consumption</th>
<th>ISO*</th>
<th>IMO</th>
<th>EPA</th>
<th>EU</th>
<th>RCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>6BT5.9-D(M)</td>
<td>78</td>
<td>105</td>
<td>104</td>
<td>1500 (50 Hz)</td>
<td>Prime</td>
<td>19.8 (5.2)</td>
<td>10.7 (2.8)</td>
<td>N/A</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>6BT5.9-D(M)</td>
<td>91</td>
<td>124</td>
<td>122</td>
<td>1500 (50 Hz)</td>
<td>Prime</td>
<td>22.4 (5.9)</td>
<td>11.3 (3.0)</td>
<td>N/A</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>6BT5.9-D(M)</td>
<td>91</td>
<td>124</td>
<td>122</td>
<td>1800 (60 Hz)</td>
<td>Prime</td>
<td>23.4 (6.2)</td>
<td>12.7 (3.3)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>6BT5.9-D(M)</td>
<td>112</td>
<td>152</td>
<td>150</td>
<td>1800 (60 Hz)</td>
<td>Prime</td>
<td>27.1 (7.2)</td>
<td>14.0 (3.7)</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

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

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

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