**Marine**

**DIESEL ENGINE S60**

for vessels with unrestricted continuous operation (1A)

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**Engine**

<table>
<thead>
<tr>
<th>Engine</th>
<th>Rated power ICFN kW (bhp)</th>
<th>Speed rpm</th>
<th>No. of cylinders</th>
<th>Bore/stroke mm (in)</th>
<th>Displacement, total l (cu in)</th>
<th>Description</th>
<th>Governor</th>
<th>Port Model</th>
<th>Starboard Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>S60</td>
<td>261 - 373 (350 - 500)</td>
<td>1800</td>
<td>6</td>
<td>133/168 (5.2/6.6)</td>
<td>14.0 (855)</td>
<td>Turbocharged and aftercooled</td>
<td>Electronic DDEC IV</td>
<td>6062HK39 (HE) or HK37 (KC)</td>
<td>6062HK38 (HE) or HK36 (KC)</td>
</tr>
</tbody>
</table>

**Engine with Marine gearbox**

<table>
<thead>
<tr>
<th>Engine</th>
<th>Dimensions (LxWxH) mm (in)</th>
<th>Mass, dry kg (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S60</td>
<td>1842x1035x1160 (72.5x40.7x45.7)</td>
<td>1630 (3593)</td>
</tr>
<tr>
<td>Engine with Marine gearbox</td>
<td>Dimensions (LxWxH) mm (in)</td>
<td>Mass, dry kg (lbs)</td>
</tr>
<tr>
<td>MG 5114 A</td>
<td>2040x1035x1170 (80.3x40.7x46.1)</td>
<td>1941 (4279)</td>
</tr>
</tbody>
</table>

**Engine speed (rpm)**

- Rated power 354 kW
- Rated power 298 kW

Optional equipment and finishing shown. Standard may vary.

Typical applications: Fast yachts, fast patrolboats, police craft
<table>
<thead>
<tr>
<th>Performance &amp; fuel consumption</th>
<th>S60</th>
<th>S60</th>
<th>S60</th>
<th>S60</th>
<th>S60</th>
<th>S60</th>
<th>S60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed</td>
<td>1800</td>
<td>1800</td>
<td>1800</td>
<td>1800</td>
<td>1800</td>
<td>1800</td>
<td>1800</td>
</tr>
<tr>
<td>rpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum power</td>
<td>261</td>
<td>280</td>
<td>298</td>
<td>317</td>
<td>336</td>
<td>354</td>
<td>373</td>
</tr>
<tr>
<td>kW (SAE J 1228)</td>
<td>350</td>
<td>375</td>
<td>400</td>
<td>425</td>
<td>450</td>
<td>475</td>
<td>500</td>
</tr>
<tr>
<td>Maximum power (SAE J 1228)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(bhp)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel consumption</td>
<td>206</td>
<td>205</td>
<td>198</td>
<td>197</td>
<td>196</td>
<td>196</td>
<td>196</td>
</tr>
<tr>
<td>g/kWh</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>l/hr</td>
<td>64.7</td>
<td>69.3</td>
<td>71</td>
<td>75.3</td>
<td>79.5</td>
<td>83.7</td>
<td>88.2</td>
</tr>
<tr>
<td>gal/hr</td>
<td>17.1</td>
<td>18.3</td>
<td>18.7</td>
<td>19.9</td>
<td>21</td>
<td>21.1</td>
<td>23.3</td>
</tr>
</tbody>
</table>

**Standard equipment**

- **Diesel Engine**: Water-cooled exhaust components; Flywheel housing SAE #1
- **Fuel system**: Electronic unit injection system; secondary fuel filter mounted on engine
- **Engine Oil System**: Dual filters mounted on engine
- **Engine Cooling System; Heat Exchanger (HE)**: Titanium plate modular heat exchanger system with integral fuel cooler; sea water cooled charge air cooler; gear driven self-priming raw water pump with 2.5” inlet
- **Engine Cooling System; Keel Cooled (KC) (6062 HK 32/33)**: Engine equipped for keel cooling including expansion tank; separate circuit cooling pump; engine fuel cooler; marine gear oil cooler
- **Air Inlet System**: Air intake filter with silencer and attached on breather pipe; 24V emergency air shutdown
- **Electrical**: Starter: 24V; Alternator: 24V/100 amp, belt driven
- **Mounting system**: Resilient
- **Marine Gear**: Electric shift marine gear; gear oil cooler in raw water circuit
- **Port/Starboard; Engine Configuration**: Accessibility for service work

**Optional equipment**

- **Engine Lube System**: Remote mount lube oil filters – single or double
- **Electrical**: 12V starter; 12V alternator/130 amp; 12V Amot air shut down
- **Accessory Drives**: SAE A (front gear train), Front crankshaft pulley for use with V-belts
- **Transmission**: Shallow oil pan, down angle
- **Transmission Options**: Trolling valve
- **Exhaust**: Raw water cooled stainless elbow
- **Electric Priming Fuel Pump**: Mounted on primary fuel filter/water separator
- **Classification**: Available upon request

Reference conditions:
> Power definition according ISO 3046
> Intake air temperature 25°C/Sea water temperature 25°C
> Rated power available up to 45°C/32°C
> Shaft power equal to rated power x 0.97
1B – Diesel engines for fast vessels with high load factors

Standard load profile:
- Power % 100 80 60 15
- Time % 10 50 20 20

All dimensions are approximate. For complete dimensional information, refer to installation drawing provided by your authorized MTU representative.

Transmission shown represents standard option marine gear.

ICFN
- I = Power to ISO
- C = Continuous power output
- F = Fuel stop power
- N = Available power: Accessories necessary for operation, engine driven