Marine Engines

Output Selection (IMO Tier 2 compliant)

High Speed Engines

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<th>Applications</th>
<th>Propulsion kW/rpm</th>
<th>Diesel-Electric Propulsion kW</th>
<th>Auxiliary Generator kW</th>
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<tr>
<td>Heavy duty</td>
<td>1200rpm / 60Hz</td>
<td>1500rpm / 50Hz</td>
<td>1800rpm / 60Hz</td>
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<tr>
<td>Medium duty</td>
<td>320/1940</td>
<td>350/2000</td>
<td>360/1840</td>
</tr>
<tr>
<td>Light duty</td>
<td>470/1600**</td>
<td>520/1650</td>
<td>605/1800**</td>
</tr>
<tr>
<td></td>
<td>480/1350</td>
<td>530/1400</td>
<td>610/1500</td>
</tr>
<tr>
<td></td>
<td>940/1600**</td>
<td>1040/1650</td>
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<tr>
<td></td>
<td>1250/1600**</td>
<td>1380/1650</td>
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<td></td>
<td>1450/1350</td>
<td>1600/1400</td>
<td>1855/1500</td>
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</tbody>
</table>

*Also CCNR Stage II compliant  ** Also EU Stage IIIA compliant

Specifications other than the standard specifications mentioned above may be available on request.

Propulsion

**Heavy Duty**
Typical Operation:
- Allowable Load Factor is less than 100% of Rated Power.
- Allowable Cruising Speed is less than 100% of Rated Speed.
- Operating hours are unlimited per year.

Typical Vessel Application:
- Cargo Vessels and Fishing Boats.

**Medium Duty**
Typical Operation:
- Allowable Load Factor is up to 83% of Rated Power.
- Allowable Cruising Speed is up to 94% of Rated Speed.
- 100% of Rated Power is available intermittently for 8hrs per every 24hrs operation.
- Operating hours are less than 6,000hrs per year.

Typical Vessel Application:
- Working Boats, Passenger Vessels and Ferry Boats.

**Light Duty**
Typical Operation:
- Allowable Load Factor is up to 75% of Rated Power.
- Allowable Cruising Speed is up to 91% of Rated Speed.
- 100% of Rated Power is available intermittently for 1hr per every 6hrs operation.
- Operating hours are less than 3,000hrs per year.

Typical Vessel Application:
- Pleasure Boats, High Performance Vessels, and Patrol Boats.

Diesel-Electric Propulsion

Typical Operation:
- Average Load Factor is 60-80% of Rated Power.
- Operating hours: 3,000-6,000hrs per year.
- Momentary overload: 110% is available for less than 25hrs per year on emergency basis.
- 100% of Rated Power is available for maximum of 3hrs per every 12hrs operation.

Typical Vessel Application:
- Offshore Vessels, Inland Cargo Vessels, and Ferries.

Auxiliary Generator

Main Power Supply
Typical Operation:
- Average Load Factor is 60-80% of Rated Power.
- Operating hours: 3,000-4,000hrs per year.
- Momentary overload: 110% is available for governing purpose.

Emergency Power Supply
Typical Operation:
- Average Load Factor is 60% of Rated Power.
- Operating hours: up to 500hrs per year.
- Overload: 110% can be used for less than 25hrs per year.

For information on IMO1 and Medium Speed Engines, please contact your local distributor or Mitsubishi Turbocharger and Engine Europe B.V.
Information is subject to change without notice.