Customer benefits

**Genuine marine design** with simple solutions, routine maintenance front area, engine block inspection hatches

**Continuous compact power** with reference performances in its category

**Global environment care** with low exhaust emissions, noise reduction and controlled fuel consumption at any running cycle

**Latest safe technology** including electronic injection dynamic redundancy, high efficient ball bearing turbocharger, integrated circuits with 0 flexible hoses, and more…

**Life cycle cost efficiency** with extended MTBO, modular concept reducing number of components and interfaces

Rating table

<table>
<thead>
<tr>
<th>Rating</th>
<th>Frequency</th>
<th>RPM</th>
<th>kWm</th>
<th>kWe</th>
<th>kVA</th>
<th>IMO*</th>
<th>EPA*</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRP</td>
<td>50 Hz</td>
<td>1500</td>
<td>440</td>
<td>416</td>
<td>520</td>
<td>II-III</td>
<td>III-IV</td>
</tr>
<tr>
<td>PRP</td>
<td>60 Hz</td>
<td>1800</td>
<td>500</td>
<td>472</td>
<td>590</td>
<td>II-III</td>
<td>III-IV</td>
</tr>
</tbody>
</table>

*IMO III & EPA IV with SCR System.

Prime running power (PRP)

- Variable load with mean power calculated on 250 running hours
- No restriction on use if mean power ≤75% of nominal power
- Total operating time at 100% nominal power shall not exceed 500 hours per year
- 10% overload available 1 hour each 12 hours

Power definition

Standard ISO 3046/1 - 1995 (F)

**Reference conditions**

| Ambient temperature | 25 °C / 77 °F |
| Barometric pressure  | 100 kPa       |
| Relative humidity   | 30%           |
| Raw water temperature| 25 °C / 77 °F |

**Fuel oil**

- Relative density 0,840 ± 0,005
- Lower calorific power 42 700 kJ/kg
- Consumption tolerances ± 5%
- Air inlet limit temperature 35 °C / 95 °F
Standard equipment

Cooling system
- Two stages cooling circuit with built-in HT thermostatic valves
- Integrated fresh water expansion tank with port/starboard filling provision
- High efficiency tubular heat exchanger module
- Gear driven centrifugal fresh water pump
- Self priming raw water pump with bronze impeller

Lubrication system
- Full flow lube oil filters duplex type - Centrifugal lube oil purifier
- Fresh water cooled lube oil heat exchanger module
- Port or starboard lube oil filling cap and dipstick
- Manual priming and draining pump

Fuel system
- Common-rail injection
- High pressure pump with shielded high pressure rail and pipes
- Fuel oil filter duplex type
- Water separator

Intake air and exhaust system
- Double flow raw water cooled intake air heat exchanger module
- Fresh water cooled exhaust gas manifolds
- High efficiency dry turbochargers with ball bearing technology

Electrical system
- Voltage: 24V DC insulated
- Electrical starter
- Baseframe mounted control cabinet according to Classification Societies recommendations

Generator
- 50/60 Hz frequency, 4 poles
- Insulation / Heating class H/H
- Electronic voltage regulation
- IP23 protection, marine impregnation
- Single bearing

Specific fuel consumption

<table>
<thead>
<tr>
<th></th>
<th>PRP</th>
<th>75% PRP</th>
<th>50% PRP</th>
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<tbody>
<tr>
<td>Frequency</td>
<td>kWe</td>
<td>kWm</td>
<td>g/kWh</td>
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<tr>
<td>50 Hz</td>
<td>416</td>
<td>440</td>
<td>195</td>
</tr>
<tr>
<td>60 Hz</td>
<td>472</td>
<td>500</td>
<td>198</td>
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</tbody>
</table>

Dimensions and dry weight (mm / kg)

<table>
<thead>
<tr>
<th>Dimensions and dry weight (mm / kg)</th>
</tr>
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<tbody>
<tr>
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<tr>
<td>1400</td>
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<tr>
<td>3000</td>
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</tbody>
</table>

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