**6 W105S Marine Generator Set**

**Customer benefits**
- **Continuous compact power** with reference performances in its category
- **Easy service** with accessible components and unit cylinder heads
- **Simple technology with mechanical injection**
- **Life cycle cost efficiency** with extended mean time between overhauls (MBTO)

**Rating table**

<table>
<thead>
<tr>
<th>Rating</th>
<th>Frequency</th>
<th>RPM</th>
<th>kWm</th>
<th>kWe</th>
<th>kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRP</td>
<td>50 Hz</td>
<td>1500</td>
<td>107</td>
<td>100</td>
<td>125</td>
</tr>
<tr>
<td>PRP</td>
<td>50 Hz</td>
<td>1500</td>
<td>129</td>
<td>120</td>
<td>150</td>
</tr>
<tr>
<td>PRP</td>
<td>60 Hz</td>
<td>1800</td>
<td>116</td>
<td>108</td>
<td>135</td>
</tr>
<tr>
<td>PRP</td>
<td>60 Hz</td>
<td>1800</td>
<td>144</td>
<td>135</td>
<td>170</td>
</tr>
</tbody>
</table>

**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%

**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

**Emissions**
- IMO Tier II
Standard equipment

Engine and block
- Cast iron cylinder block, with replaceable cylinder liners
- Separate cast iron cylinder heads
- Replaceable valves guides and seats
- Steel forged crankshaft
- Light alloy piston with 3 high performance piston rings

Cooling system
- Fresh / raw water heat exchanger with integrated thermostatic valves and expansion tank
- Cast iron centrifugal fresh water pump, mechanically driven
- Bronze self-priming raw water pump, mechanically driven

Lubrication system
- Full flow screwable oil filters
- Fresh water cooled lube oil cooler

Fuel System
- In line injection pump with flanged electronic speed governor
- Double wall injection bundle
- Duplex fuel filters
- Water separator

Intake air and exhaust system
- Fresh water cooled exhaust gas manifold
- Turbo blower with insulated turbine housing

Electrical system
- Voltage 24Vdc
- Electrical starter on flywheel crown

Generator
- 50/60Hz Frequency, 4 Pole
- Insulation / Heating Class H/H
- Electronic voltage regulation
- Brushless excitation
- IP23 Protection, Marine impregnation
- Single bearing

Specific fuel consumption

<table>
<thead>
<tr>
<th>Frequency</th>
<th>kWe</th>
<th>kWm</th>
<th>g/kWh</th>
<th>I/h</th>
<th>75% PRP</th>
<th>50% PRP</th>
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</thead>
<tbody>
<tr>
<td>50 Hz</td>
<td>100</td>
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<td>199</td>
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<td>144</td>
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<td>34</td>
<td>109</td>
<td>73</td>
</tr>
</tbody>
</table>

Dimensions and dry weight (mm / kg)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>125-135 KVA</td>
<td>1991</td>
<td>1044</td>
<td>1130</td>
</tr>
<tr>
<td>150-170 KVA</td>
<td>2031</td>
<td>1044</td>
<td>1130</td>
</tr>
</tbody>
</table>