**Customer benefits**

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

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

**Simple technology with mechanical injection**

**Life cycle cost efficiency** with extended mean time between overhauls (MBTO)

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### Rating table

<table>
<thead>
<tr>
<th>Model</th>
<th>Frequency</th>
<th>rpm</th>
<th>kWm</th>
<th>kWe</th>
<th>KVA</th>
<th>Standard Voltage</th>
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<tbody>
<tr>
<td>4 W105ES</td>
<td>50 Hz</td>
<td>1500</td>
<td>74</td>
<td>68</td>
<td>85</td>
<td>3*380</td>
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<tr>
<td></td>
<td>50 Hz</td>
<td>1500</td>
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<td>76</td>
<td>95</td>
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<tr>
<td></td>
<td>60 Hz</td>
<td>1800</td>
<td>91</td>
<td>84</td>
<td>105</td>
<td>3*440</td>
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<tr>
<td></td>
<td>60 Hz</td>
<td>1800</td>
<td>100</td>
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<td>115</td>
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</tr>
<tr>
<td>6 W105ES</td>
<td>50 Hz</td>
<td>1500</td>
<td>142</td>
<td>132</td>
<td>165</td>
<td>3*380</td>
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<tr>
<td></td>
<td>60 Hz</td>
<td>1800</td>
<td>145</td>
<td>135</td>
<td>170</td>
<td>3*440</td>
</tr>
</tbody>
</table>

**Phases synchronous generator**

- Frequency: 50/60 Hz - 4 poles
- Insulation / Heating class: H/H
- Voltage regulation: Electronic
- Excitation: Brushless
- Protection / Impregnation: IP23 / Marine
- Construction type: Single bearing

**Limited Time Running power (LTP)**

- Variable load with mean power calculated on 250 running hours
- No overload for mains regulation
- Typical hours per year 500 h (with mean power 85% of rated power)
- Total operating time at 100% not exceed 25 hours per year
- Maximum continuous running time at 100% rated power: 1h each 12h

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### 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: 0 ± 5%
- Air inlet limit temperature: 35 °C / 95 °F

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### 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
- Lube oil cooled light alloy piston with 3 high performance piston rings

**Cooling system**
- 2 stages cooling radiator including Fresh water/air cooling loop and intake air/air cooling circuits
- Belt driven cooling radiator fan

**Lubrication system**
- Full flow screwable oil filters
- Fresh water cooled lub 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**
- Insulated exhaust gas manifold
- Turbo blower with insulated turbine housing

**Electrical system**
- Voltage 24Vdc
- Dual electrical starter on flywheel crown
- 55A battery charger

### Specific fuel consumption

<table>
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<tr>
<th>Model</th>
<th>Frequency</th>
<th>kW</th>
<th>kWm</th>
<th>g/kWh</th>
<th>I/h</th>
<th>kWm</th>
<th>g/kWh</th>
<th>I/h</th>
<th>kWm</th>
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<tbody>
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<td>194</td>
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<td>202</td>
<td>26</td>
<td>73</td>
<td>218</td>
<td>19</td>
</tr>
</tbody>
</table>

### Dimensions and dry weight (mm / kg)

<table>
<thead>
<tr>
<th>Rating</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Weight</th>
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