6 M16 Marine Generator Set

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)

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>170</td>
<td>156</td>
<td>195</td>
</tr>
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<td>260</td>
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</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: 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 with 7 bearings
- 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
- 55A battery charger

**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**

| Frequency | PRP kW | PRP kWe | PRP g/kWh | PRP I/h | 75% PRP kW | 75% PRP kWe | 75% PRP g/kWh | 75% PRP I/h | 50% PRP kW | 50% PRP kWe | 50% PRP g/kWh | 50% PRP I/h |
|-----------|-------|---------|-----------|--------|------------|------------|-------------|--------|------------|------------|-------------|--------|--------|
| 50 Hz     | 156   | 170     | 212       | 43     | 127        | 212        | 32          |        | 85         | 229        | 23          |        |
| 50 Hz     | 192   | 205     | 200       | 49     | 154        | 213        | 39          |        | 102        | 227        | 28          |        |
| 60 Hz     | 168   | 183     | 216       | 47     | 137        | 222        | 36          |        | 91         | 239        | 26          |        |
| 60 Hz     | 208   | 224     | 211       | 56     | 168        | 220        | 44          |        | 112        | 225        | 30          |        |

**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>2408</td>
<td>1224</td>
<td>1275</td>
<td>1868</td>
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(1958 for 240 kVA - 50 Hz)