Outstanding Price Performance due to high electrical efficiency, low investment and service costs

Lower lube oil consumption lead to lower operating cost

The most compact design in its class Low plant investment costs, due to highest power density and space saving design

Improved durability ensures higher reliability and availability at various site conditions
TCG 3016. NEW on the block.

- **Outstanding Price-Performance**
  - Low investment and service costs while still sustaining high electrical efficiency
  - Fast payback period of power plant due to lower investment costs

- **Optimized lube oil management**
  - Lowest-in-class lube oil consumption: 0.1 g/kWh.<sup>1</sup>
  - Longer oil change intervals
  - Integrated oil and refill tanks

- **Flanged genset concept**
  - Vibration-decoupled base frame for lower installation costs and reliable operation
  - Greater integrated lube oil volume
  - Easy oil management

- **TPEM – the new control system**
  - Easy human-machine interface
  - Fully integrated remote access
  - Expanded scope, e.g. synchronization, power switch and plant control

- **Improved turbo charger for a wide field of deployment**
  - Longer maintenance intervall
  - Wider suction air temperature window

- **Higher availability and longer useful life**
  - Optimized combustion through evenly charged cylinders
  - Lower peak pressure fluctuations
  - Smoothly running, low-vibrating genset

- **Highest power density in its power node**
  - Highest power density and smallest footprint
  - Low power plant investment costs

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### Technical data 50 Hz

<table>
<thead>
<tr>
<th>Engine type</th>
<th>TCG 3016 V16 S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bore/stroke</td>
<td>mm 132/160</td>
</tr>
<tr>
<td>Displacement</td>
<td>dm&lt;sup&gt;3&lt;/sup&gt; 35.0 cu in</td>
</tr>
<tr>
<td>Speed</td>
<td>min&lt;sup&gt;-1&lt;/sup&gt; 1,500 min&lt;sup&gt;-1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Mean piston speed</td>
<td>m/s 8.0 ft/s 26.2</td>
</tr>
<tr>
<td>Length</td>
<td>mm 4,200</td>
</tr>
<tr>
<td>Width</td>
<td>mm 1,780</td>
</tr>
<tr>
<td>Height</td>
<td>mm 2,150</td>
</tr>
<tr>
<td>Dry weight genset</td>
<td>kg 8,560 lb 17,791</td>
</tr>
</tbody>
</table>

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### Natural gas applications 50 Hz

NO<sub>x</sub> ≤ 500 mg/Nm<sup>3</sup> 2)<sup>1)</sup>

<table>
<thead>
<tr>
<th>Engine type</th>
<th>TCG 3016 V16 S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical power</td>
<td>kW 1,000</td>
</tr>
<tr>
<td>Mean effective pressure</td>
<td>bar 23.5 psi 340.8</td>
</tr>
<tr>
<td>Thermal output</td>
<td>±8% kW 1,139 MBTU/hr 3,889</td>
</tr>
<tr>
<td>Electrical efficiency</td>
<td>% 41.0 % 41.0</td>
</tr>
<tr>
<td>Thermal efficiency</td>
<td>% 47.0 % 47.0</td>
</tr>
<tr>
<td>Total efficiency</td>
<td>% 88.0 % 88.0</td>
</tr>
</tbody>
</table>

1) Transport dimensions for gensets, components set up separately must be taken into consideration.
2) NO<sub>x</sub> ≤ 500 mg/Nm<sup>3</sup>; exhaust gas dry at 5% O<sub>2</sub>.

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info@mwm.net | www.mwm.net

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1) According to ISO 3046-1 at U = 0.4 kV, cosφ = 1.0 for 50 Hz, a minimum methane number of MN 80 for natural gas.
2) Exhaust gas cooled to 128°C for natural gas.
3) Data for special gases and dual gas operation on request. The values given in these data sheets are for information only and are not binding. The information given in the offer is authoritative.