## Oil & Gas

### Diesel Engine 12V 1600

**for Oil and Gas Applications with EPA Tier 4 Certification**

**Dimensions and Masses**

<table>
<thead>
<tr>
<th>Engine</th>
<th>Dimensions (LxWxH) mm (in)</th>
<th>Mass, dry kg (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V 1600 C</td>
<td>1850x1200x1200 (72.8x47.2x47.2)</td>
<td>2200 (4850) ¹</td>
</tr>
</tbody>
</table>

All dimensions are approximate, for complete information refer to the installation drawing.

¹ DIN 70020

### Engine Model

<table>
<thead>
<tr>
<th>Bore/stroke</th>
<th>Cylinder configuration</th>
<th>Displacement</th>
<th>Displacement, total</th>
<th>Fuel specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm (in)</td>
<td>12 V</td>
<td>1.75 (107)</td>
<td>21.0 (1282)</td>
<td>DIN EN 590, ASTM D975 (DF1, DF2)</td>
</tr>
</tbody>
</table>

### Engine Type

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Power</th>
<th>Peak Torque</th>
<th>Fuel Consumption at rated power</th>
<th>Fuel Consumption at peak torque</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kW</td>
<td>bhp</td>
<td>rpm</td>
<td>Nm</td>
</tr>
<tr>
<td>12V 1600 C50</td>
<td>630</td>
<td>844</td>
<td>1900/2100</td>
<td>3600</td>
</tr>
<tr>
<td>12V 1600 C60</td>
<td>680</td>
<td>912</td>
<td>1900/2100</td>
<td>4000</td>
</tr>
<tr>
<td>12V 1600 C70</td>
<td>730</td>
<td>979</td>
<td>1900/2100</td>
<td>4200</td>
</tr>
</tbody>
</table>

Emissions: EPA 40 CFR 89 / Tier 4 final

**Available from January 2015**

Also available for non-regulated markets. For information please contact your MTU distributor.

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**Power. Passion. Partnership.**
# Standard Equipment

- Common rail injection system
- Electronic engine management
- Two stage turbo charging with low temperature charge air cooling circuits
- 2nd coolant water pump for low temperature charge air cooling circuit
- High pressure EGR system with high temperature cooling circuit
- Engine mounted charge air and EGR coolers
- 24 Volt starter
- 28 Volt alternator, 80 A
- SAE 1 flywheel housing
- Mounting brackets
- Close crankcase ventilation

Reference conditions:
- Intake temperature: 25°C (77°F)
- Charge air temperature at 50°C coolant temp.: 45°C
- Ambient air pressure: 1000 mbar
- Altitude above sea level: 100 m (328 ft)

Subject to change without notice. Customization possible. Engines illustrated in this document may feature options not fitted as standard to standard engine.

# Optional Equipment

- 24 Volt alternator, 55 - 200 A
- Exhaust brake system
- Fuel prefilter
- PTO drives for hydrostatic pumps (SAE A and SAE B)
- AC compressor
- Air pressure starter
- Coupling for main PTO
- Resilient engine mountings
- Air compressor
- Elevated fan drive
- Cooling fan