Rail

PowerPacks® with 6H 1800
For Railcar Applications
EU Stage IIIB, EU Stage IIIA compliant, EPA Tier 3 compliant

**Combustion Engine Types**

<table>
<thead>
<tr>
<th>Engine Type</th>
<th>kW (bhp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6H 1800 R81/R75</td>
<td>315 (422)</td>
</tr>
<tr>
<td>6H 1800 R82/R75L</td>
<td>335 (449)</td>
</tr>
<tr>
<td>6H 1800 R83/R85</td>
<td>360 (483)</td>
</tr>
<tr>
<td>6H 1800 R84/R85L</td>
<td>390 (523)</td>
</tr>
</tbody>
</table>

**Speed**

- 1800 rpm

**Bore/stroke**

- 128/166 mm (5.0/6.5 in)

**Cylinder configuration**

- 6 inline

**Displacement/cylinder**

- 2.14 l (130 cu in)

**Displacement, total**

- 12.8 l (782 cu in)

**Fuel specification**

- DIN EN 590

**Emission qualification***

- EU Stage IIIB, EU Stage IIIA compliant
- EPA Tier 3 compliant

EPA: US Nonroad Regulation 40 CFR 89

**Installation Types**

- Roof mounting
- Underfloor mounting

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**Dimensions and Masses**

<table>
<thead>
<tr>
<th>MTU PowerPack</th>
</tr>
</thead>
</table>
| **Dimensions** | L: 2600 – 4000 (102.4 – 157.5)
|               | W: 2100 – 2800 (82.7 – 110.2)
|               | H: 770 – 850 (30.3 – 33.5)
| **Mass, kg (lbs)** | 2900 – 4000 (6393 – 8819) (dry)
|               | 3050 – 4200 (6724 – 9259) (wet)

All dimensions are approximate.

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MTU PowerPack®
### Power transmission

**Transmission for underfloor installation**

<table>
<thead>
<tr>
<th>Type</th>
<th>ZF 6 AP 2000R</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Voith T211</td>
</tr>
</tbody>
</table>

**Traction alternator for underfloor and roof installation**

<table>
<thead>
<tr>
<th>Type</th>
<th>Permanent magnet synchronous generator</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>External excited synchronous generator</td>
</tr>
<tr>
<td></td>
<td>Asynchronous generator</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Output voltage range at rated speed</th>
<th>VAC 500-2800</th>
</tr>
</thead>
</table>

**Cooling system**

- Integrated in PowerPack or separate roof installation
- Hydraulic or electrical fan drive

**Exhaust system**

- EU Stage III B
- EU Stage III A compliant,
- EPA Tier 3 compliant
- SCR system, catalyst with silencer function, urea injection with supplying and metering unit
- With exhaust silencer

### Additional scope of supply

#### Hybridization

**Onboard power supply**

<table>
<thead>
<tr>
<th>Types</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>28V/DC</td>
<td>up to 18 kW</td>
</tr>
<tr>
<td>110V/DC</td>
<td>up to 18 kW</td>
</tr>
<tr>
<td>3P ~AC 50 Hz/60 Hz</td>
<td>up to 70 kVA</td>
</tr>
</tbody>
</table>

**Air compressor**

**Air conditioning compressor**

**Preheating systems**

**Automatic engine**

**oil replenishment system**

**CaPos smart edition**

**SafeMon**

**Capacitor-based power supply system for starter**

**Safety monitoring unit and documentation**

Further variations on demand.

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

For further information please consult your MTU distributor/dealer.