ABB offers highly efficient drivetrain solutions for electric buses consisting of HES880 drive modules and permanent magnet traction motors. Its design is based on proven technology. In addition, ABB offers a modular onboard battery system customized to the needs of vehicle manufacturers and transport operators.

### Applications
- Overnight and opportunity charging

### Benefits
- Compact and lightweight design
- Modular platform solution covering all e-bus applications
- Highly energy-efficient

### Table

<table>
<thead>
<tr>
<th>Traction Converter</th>
<th>Auxiliary Converter</th>
<th>Traction Motor</th>
<th>Traction Battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overnight / Opportunity Charging</td>
<td>HES880</td>
<td>HES AUX</td>
<td>Permanent magnet traction motor</td>
</tr>
</tbody>
</table>
HES880

Dimensions (L x W x H) 448 mm x 430 mm x 180 mm
Weight without brake chopper 35 kg
Weight with brake chopper 38 kg
DC-link voltage 750 V
Continuous current 400 A
IP class IP67
Cooling water-glycol mix

Permanent magnet traction motor

Dimensions (L x D) 510 x 465 mm
Weight 350 kg
Power 190 kW
S1 Power 105 kW
Peak torque (20 sec) 2500 Nm
S1 torque (30 min) 1070 Nm
IP class IP65
Cooling water-glycol mix
Peak efficiency 96.5 %