**ENERGY STORAGE SYSTEMS**

**BORDLINE® Max 700-HP**
High power battery for transportation

BORDLINE® ESS is an energy storage system designed for transportation applications and meets demanding requirements of rail, electric bus, and off-road vehicles.

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### Key characteristics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td><strong>Safe</strong></td>
<td>HIGHEST SAFETY By design and cell selection</td>
</tr>
<tr>
<td><strong>Long Life</strong></td>
<td>Over 20,000 cycles</td>
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<tr>
<td><strong>Rapid Charging</strong></td>
<td>Charging in less than 10 min</td>
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<tr>
<td><strong>Plug &amp; Play</strong></td>
<td>EASY CONNECTIVITY Simple installation</td>
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<tr>
<td><strong>Flexible</strong></td>
<td>MULTI-STRING PARALLELING To adapt capacity</td>
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**Low-Temperature Operation** Excellent performance

**Battery Management System** Integrated supervision

**Compact and Lightweight** Designed for all applications

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**BORDLINE® Max battery pack**
Technical data

Rating
Nominal energy 27.9 kWh
Nominal voltage 607 V
Charge cut-off voltage 713 V
Discharge cut-off voltage 396 V
Peak power charge / discharge up to 275 kW / 240 kW
Continuous power charge / discharge typical 120 kW

Cooling
Coolant water-glycol

Mechanical data
Dimensions L1750 x H490 x W490 mm
Weight 450 ± 10 kg
Mounting location roof/underslung
Degree of protection (EN 60529) IP66/IP69

Ambient conditions
Ambient temperature -40 °C to + 45 °C

Lifetime
Lifetime up to 15 years
Cycle life at 35 °C, 10-90 % SoC, 2C/2C >20,000

Tested and certified
IEC 62928, ECE R100, UN 38.3, EN 45545, IEC 62619, IEC 62620

Charge/discharge characteristics

Voltage, V

SOC, 1

1C Charge/Discharge
2C Charge/Discharge
4C Charge/Discharge