ENERGY STORAGE SYSTEMS

BORDLINE® Max 800-UHP
Ultra high power battery for transportation

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

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**Key characteristics**

**Safe**
- HIGHEST SAFETY
  - By design and cell selection

**Flexible**
- MULTI-STRING PARALLELING
  - To adapt capacity

**>40.000**
- LONG LIFE
  - Over 40,000 cycles

**80%**
- RAPID CHARGING
  - Charging in less than 10 min

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**Plug & play**

**EASY CONNECTIVITY**
- Simple installation

**Low-temperature operation**
- Excellent performance

**Battery management system**
- Integrated supervision

**Compact and lightweight**
- Designed for all applications
Technical data

Rating
Nominal energy 26.5 kWh
Nominal voltage 662 V
Charge cut-off voltage 778 V
Discharge cut-off voltage 432 V
Peak power charge / discharge up to 300 kW / 260 kW
Continuous power charge / discharge typical 130 kW

Cooling
Coolant water-glycol

Mechanical data
Dimensions (excl. mounting feet) L1870 x H510 x W500 mm
Weight 510 ± 10
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, 3C/3C >40,000

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