



BESS EV Supercharger

517 kWh

Liquid-cooled battery storage system based on prismatic LFP ESS cells 280 Ah with high cyclic lifetime

High-performance charging features designed for optimal efficiency and durability. Includes 2 DC charging sockets with 120 kW power supply for each connector, CC2 connector type, and a liquid cooling system for enhanced performance and thermal management.

- Product certifications:
IEC 62619, IEC 62477, IEC 63056, IEC 61000, IEC 62933-5-2, UL 1973, UL 9540A, NFPA 855 (NFPA 68, NFPA 69, NFPA 70E, NFPA 72), UN 38.3
- Environmental Compliance:
ROHS, REACH, Cobalt free

High safety

- High thermal stability thanks to liquid cooling
- Multi-stage, active fire protection system
- Use of highly safe prismatic LFP cells
- Ultra-wide operating temperature range

Low LCOS (Levelised Cost of Storage)

- Excellent thermal management improves energy throughput by ensuring optimal operating temperature
- High energy density
- Highly integrated: including thermal management system, fire protection system, BMS, etc.

GENERAL

Charger Configuration	2x1P288S
Pack Configuration	1P48S
No. of Battery Pack	12
Cooling Method	Liquid cooling
BMS Communication	CAN, RS485, Ethernet
Gravimetric	> 98 Wh/kg ¹
Volumetric	> 86 Wh/l ¹
Application Altitude	≤ 3.000 m

ELECTRICAL

Nominal Voltage Cabinet	921,6 V ¹
Operating Voltage Cabinet	720 ... 1051,2 V ¹
Nominal Energy Cabinet	517 kWh ^{1,2,3}
Nominal SOC at delivery	27 % ³
Nominal Charge/Discharge Rate	0,5 P / 0,5 P
Round Trip Efficiency	> 94 %

MECHANICAL

Dimensions (L x W x H)	1.300 x 2.600 x 2.350 mm
Weight Cabinet	< 6.500 kg ¹
Protection Level	IP 55

TEMPERATURE RANGE

Operating	-30 °C ... 50 °C ⁴
Storing (recommended)	-20 °C ... 35 °C ⁴

PRODUCT CERTIFICATIONS

Certificates and Reports	IEC 62619, IEC 62477, IEC 63056, IEC 61000, UL 1973, IEC 62933-5-2, UL 9540A, NFPA 855 (NFPA 68, NFPA 69, NFPA 70E, NFPA 72), UN 38.3
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ENVIRONMENTAL

Compliance	ROHS, REACH, Cobalt free
Battery Regulation (EU)	2023/1542

COMPANY CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

¹ 12 packs ³ 25°C +/- 2,0

² 0,5 P / 0,5 P ⁴ ambient temperature