

BESS **Cell** 300 Ah

Prismatic LFP cell optimised for use in stationary BESS



With HiTHIUM Active Lithium-Ion Technology

Prismatic LFP cell with very high cyclic lifetime and improved safety characteristics.

Specially optimised for use in stationary battery storage systems with the highest requirements on safety, reliability and performance. Suitable e.g. for industrial, utility, and grid serving applications.

- Product certifications:
IEC 62619, UL 1973, UL 9540A, UN 38.3
- Company certifications:
ISO 9001, ISO 14001, ISO 45001
- Environmental Compliance:
ROHS, REACH

High safety

- HiTHIUM-developed prismatic LFP cell with high thermal stability
- Passes crush and nail penetration test
- Ultra wide operating temperature range

Low LCOS (Levelised Cost of Storage)

- Long life cycle > 12.000 cycles at 0,5 P/0,5 P 70 % SOH due to advanced materials and process technologies
- Adopts Hithium Active Lithium-Ion Technology with Sustained Release
- < 2 % degradation during first 1.000 cycles

Flexible and versatile use

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GENERAL

Nominal Capacity	300 Ah ^{1,2}
Nominal Energy	960 Wh ^{1,2}
Cell Chemistry	LiFePo4 (LFP) + H.A.L.T. ³
Nominal Cycles	> 12.000 ^{1,2,4}
Gravimetric	> 170 Wh/kg
Volumetric	> 370 Wh/l
Industry Standard (Type)	LFP71173207

ELECTRICAL

Nominal Voltage	3,2 V ^{1,2}
Operating Voltage	T > 0°C 2,50 ... 3,65 V T ≤ 0°C 2,00 ... 3,65 V
AC Resistance (1 kHz)	0,19 mΩ ⁵
Max. self discharge rate	3% / month ^{2,5}
Nominal SOC at delivery	27% ²
Max. continuous charge rate	1 P
Max. continuous discharge rate	1 P

¹ 0,5 P / 0,5 P

² 25 °C +/- 2,0

³ HiTHIUM Active Lithium-Ion Technology (with sustained release)

⁴ 70 % SoH

⁵ 27 % SOC

⁶ ambient temperature

MECHANICAL

Dimensions (L x W x H)	174,7 x 71,65 x 207,11 mm
Type	prismatic
Weight	5,62 kg +/- 0,2
Volume	2,59 l

TEMPERATURE RANGE

Charging	0°C ... 60°C ⁶
Discharging	-30°C ... 60°C ⁶
Storing (recommended)	-20°C ... 35°C (5°C ... 35°C) ⁶

PRODUCT CERTIFICATIONS

Certificates and Reports	IEC 62619, UL 1973, UL 9540A, UN 38.3
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ENVIRONMENTAL

Compliance	ROHS, REACH Cobalt free
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COMPANY CERTIFICATIONS

ISO 9001, ISO 14001, ISO 45001

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