

∞Cell 1300 Ah

Prismatic LFP cell for long-duration energy storage



Preliminary

Prismatic LFP cell with high cyclic lifetime, low temperature rise and reliable safety characteristics.

Specially optimised for use in stationary energy 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 9540A, UL 1973, UN 38.3
- Company certifications:
ISO 9001, ISO 14001, ISO 45001, SA 8000
- Environmental compliance*:
RoHS, REACH, Regulation (EU) 2023/1542, Cobalt free

Low LCOS (Levelised Cost of Storage)

- High cyclic lifetime ≥ 10.000 cycles, thanks to advanced material and process technologies
- Designed for Long Duration Energy Storage (LDES) systems

Low Temperature Rise

- Temperature rise $\leq 5^{\circ}\text{C}$, thanks to chemical materials and structural design improvement

Reliable Safety

- HiTHIUM-developed prismatic LFP cell with high thermal stability
- No fire or explosion during nail penetration and crush tests
- Ultra wide operating temperature range

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Prismatic LFP cell optimised for use in stationary ESS



GENERAL

Nominal Capacity	1300 Ah ^{1,2}
Nominal Energy	4.160 Wh ^{1,2}
Cell Chemistry	LiFePO ₄ (LFP)
Nominal Cycles	≥ 10.000 ^{1,2,3}
Volumetric ED	≥ 406 Wh/L
Cell Model	MC1300P0125A

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
Max Self-discharge Rate	3% / month ^{2,4}
Nominal Continuous Charge/discharge Rate	0,125P/0,125P

¹ 0,125 P / 0,125 P

² 25 °C +/- 2.0

³ 70 % SOH

⁴ 27 % SOC

* The certifications are in-progress.

MECHANICAL

Dimensions (L x W x H)	580,2 x 75,2 x 234,3 mm
Type	Prismatic

TEMPERATURE RANGE

Charging	0 °C ... 60 °C
Discharging	-30 °C ... 60 °C
Storing (Recommended)	-20 °C ... 35 °C

PRODUCT CERTIFICATIONS*

Safety Certificates	IEC 62619, UL 9540A, UL 1973
Transportation	UN 38.3

ENVIRONMENTAL*

Compliance	RoHS, REACH, Cobalt free
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COMPANY CERTIFICATIONS

ISO 9001, ISO 14001,
ISO 45001, SA 8000

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