

Cell 1175 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 $\geq 11,000$ 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

∞Cell 1175 Ah

Prismatic LFP cell optimised for use in stationary ESS



GENERAL	
Nominal Capacity	1175 Ah ^{1,2}
Nominal Energy	3,760 Wh ^{1,2}
Cell Chemistry	LiFePO ₄ (LFP)
Nominal Cycles	≥ 11,000 ^{1,2,3}
Gravimetric ED	≥ 180 Wh/kg
Volumetric ED	≥ 400 Wh/L
Cell Model	MC1175P025A

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)	0.23 mΩ +/- 0.05 ⁴
Max Self-discharge Rate	3% / month ^{2,4}
Nominal Continuous Charge/discharge Rate	0.25P/0.25P

¹ 0.25 P / 0.25 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 x 75 x 216 mm
Type	Prismatic
Weight	20.4 kg +/- 0.5
Volume	9.4 L

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
Regulation (EU)	2023/1542

COMPANY CERTIFICATIONS	
	ISO 9001, ISO 14001, ISO 45001, SA 8000

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