

# Cell 1175 Ah

Prismatic LFP cell for long-duration energy storage



## **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 <sup>1,2</sup>
Nominal Energy	3.760 Wh <sup>1,2</sup>
Cell Chemistry	LiFePO <sub>4</sub> (LFP)
Nominal Cycles	≥ 11.000 <sup>1,2,3</sup>
Gravimetric ED	≥ 180 Wh/kg
Volumetric ED	≥ 400 Wh/L
Cell Model	MC1175P025A

## ELECTRICAL

Nominal Voltage	3,2 V <sup>1,2</sup>
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 <sup>4</sup>
Max Self-discharge Rate	3% / month <sup>2,4</sup>
Nominal Continuous Charge/discharge Rate	0,25P/0,25P

<sup>1</sup> 0,25 P / 0,25 P

<sup>2</sup> 25°C +/- 2,0

<sup>3</sup> 70 % SOH

<sup>4</sup> 27 % SOC

\* The certifications are in-progress.

## MECHANICAL

Dimensions (L x W x H)	580,22 x 75,22 x 216,31 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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