∞Cell 587 Ah

Prismatic LFP cell optimised for use in stationary ESS

Preliminary

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

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

- Product certifications*:
  IEC 62619, UL 9540A, UL 1973, GB/T 36276, UN 38.3
- Company certifications:
  ISO 9001, ISO 14001, ISO 45001, SA 8000
- Environmental Compliance*:
  RoHS, REACH, Regulation (EU) 2023/1542, Cobalt free

High 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

Low LCOS (Levelised Cost of Storage)

- Very high cyclic lifetime ≥ 11.000 cycles, thanks to advanced material and process technologies

Flexible and versatile use

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GENERAL	
Nominal Capacity	587 Ah [1, 2]
Nominal Energy	1.878,4 Wh [1, 2]
Cell Chemistry	$LiFePO_4$ (LFP)
Nominal Cycles	≥ 11.000
Gravimetric ED	~ 185 Wh/kg
Volumetric ED	~ 413 Wh/L
Cell Model	ST587P050A

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 [1, 2]
Nominal Continuous Charge Rate	0,5 P
Nominal Continuous Discharge Rate	0,5 P

[1] *25 °C +/- 2,0*
[2] *27 % SOC*
* *The certifications are in-progress.*

MECHANICAL	
Dimensions (L x W x H)	286 x 73,50 x 216,3 mm
Type	Prismatic
Weight	10,20 kg +/- 0,2
Volume	4,55 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 GB/T 36276
Safe Transportation	UN 38.3

ENVIRONMENTAL*	
Compliance	RoHS, REACH, Cobalt free
Battery Regulation (EU)	2023/1542

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

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