

ESS **Cell** 314 Ah

Prismatic LFP cell optimised for use
in stationary ESS



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 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 $\geq 11,000$ cycles, thanks to advanced material and process technologies

Flexible and versatile use

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GENERAL	
Nominal Capacity	314 Ah ^{1,2}
Nominal Energy	1,004.8 Wh ^{1,2}
Cell Chemistry	LiFePO ₄ (LFP)
Nominal Cycles	≥ 11,000 ^{1,2,3}
Gravimetric	≥ 175 Wh/kg
Volumetric	≥ 385 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)	0.20 mΩ +/- 0.05 ⁴
Max. self discharge rate	3% / month ^{2,4}

¹ 0.5P/0.5P

² 25°C +/- 2.0

³ 70% SOH

⁴ 27% SOC

MECHANICAL	
Dimensions (L x W x H)	174.70 x 71.70 x 207.11 mm
Type	prismatic
Weight	5.60 kg +/- 0.2
Volume	2.59 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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