

ESS Cell 280 Ah

Prismatic LFP cell optimised for use in stationary ESS



Prismatic LFP cell with 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)

- High cyclic lifetime $\geq 10,000$ cycles, thanks to advanced material and process technologies

Flexible and versatile use

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GENERAL

Nominal Capacity	280 Ah ^{1,2}
Nominal Energy	896 Wh ^{1,2}
Cell Chemistry	LiFePO ₄ (LFP)
Nominal Cycles	≥ 10,000 ^{1,2,3}
Gravimetric	≥ 160 Wh/kg
Volumetric	≥ 345 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)	0.18 mΩ +/- 0.05 ⁴
Max. self discharge rate	3%/month ^{2,4}
Max. continuous charge rate	1 P
Max. continuous discharge rate	1 P

¹ 0.5 P / 0.5 P

² 25°C +/- 2.0

³ 70 % SoH

⁴ 27 % SOC

MECHANICAL

Dimensions (L x W x H)	174.70 x 71.65 x 207.11 mm
Type	prismatic
Weight	5.43 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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