

ESS **Cell** 280 Ah-1 P

Prismatic LFP cell optimised for use
in stationary ESS



Prismatic LFP cell with 1P high power capability and improved safety characteristics.

Specially optimised for use in industries:

1. Power grid Frequency tuning
2. Mega-scale ESS scenario: photovoltaic ESS&wind-power
3. Petroleum well driller

- Product certifications:
UN 38.3, UL9540A, UL1973, IEC62619
- Company certifications:
ISO 9001, ISO 14001, ISO 45001
- Environmental Compliance:
RoHS, REACH, Directive

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
(Discharge: -30°C ... 60°C; Charge: 0°C ... 60°C)

High power

- Standard charge&discharge 1 P/1 P
- Long cycle life $\geq 7,000$ cycles@1 P

ESS Cell 280 Ah

Prismatic LFP cell optimised for use in stationary ESS



GENERAL	
Nominal Capacity	280 Ah ^{1,2}
Nominal Energy	896 Wh ^{1,2}
Cell Chemistry	LiFePO ₄ (LFP)
Nominal Cycles	≥ 7,000 ^{1,2,3}
Gravimetric ED	≥ 159.2 Wh/kg
Volumetric ED	≥ 341.4 Wh/L
Cell Model	LFP71173207/280Ah-1 P

ELECTRICAL	
Nominal Voltage	3.2 V ^{2,5} , 3.15 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)	0.17 mΩ +/- 0.05 ⁴
Max. Self-discharge Rate	3%/month ^{2,4}
Nominal Continuous Charge Rate	1 P
Nominal Continuous Discharge Rate	1 P

¹ 1 P/1 P

² 25°C +/- 2.0

³ 70 % SOH

⁴ 27 % SOC

⁵ 0.5 P/0.5 P

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	UL 9540A, UL 1973, IEC 62619
Safe Transportation	UN 38.3

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

COMPANY CERTIFICATIONS	
	ISO 9001, ISO 14001, ISO 45001

HiTHIUM Energy Storage Technology Deutschland GmbH
Website: <https://hithium.com> | Email: Contact@hithium.de
Address: Landsberger Str. 155, 80687 Munich, Germany

Xiamen HiTHIUM Energy Storage Technology Co., Ltd.
Address: HiTHIUM Industrial Park, Tongxiang High Tech Zone, Xiamen, Fujian, China | Email: hithium@hithium.com



LinkedIn



Website