

BESS Cell 314 Ah

Prismatic LFP cell optimised for use in stationary BESS



Preliminary

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 1973, UL 9540A, UN 38.3
- Company certifications:
ISO 9001, ISO 14001, ISO 45001
- Environmental Compliance:
ROHS, REACH

High safety

- HiTHIUM-developed prismatic LFP cell with high thermal stability
- Passes crush and nail penetration test
- Ultra wide operating temperature range

Low LCOS (Levelised Cost of Storage)

- Long life cycle > 11.000 cycles at 0,5P/0,5P 70% SOH due to advanced materials 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	LiFePo4 (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}
Nominal SOC at delivery	27% ²
Max. continuous charge rate	1P
Max. continuous discharge rate	1P

¹ 0,5P / 0,5P

² 25°C +/- 2,0

³ 70% SoH

⁴ 27% SOC

⁵ Ambient temperature

MECHANICAL	
Dimensions (L x W x H)	174,7 x 71,70 x 207,11 mm
Type	prismatic
Weight	5,65 kg +/- 0,2
Volume	2,59 l

TEMPERATURE RANGE	
Charging	0°C ... 60°C ⁵
Discharging	-30°C ... 60°C ⁵
Storing (recommended)	-20°C ... 35°C (+5°C ... 35°C) ⁵

PRODUCT CERTIFICATIONS	
Certificates and Reports	UN 38.3, UL 9540A, UL 1973, IEC 62619

ENVIRONMENTAL	
Compliance	ROHS, REACH Cobalt free

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



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