

# ESS **Cell** 300 Ah

Prismatic LFP cell optimised for use  
in stationary BESS



With Hithium Active  
Lithium-Ion Technology

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

Specially optimised for use in stationary battery storage systems with the highest demands 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.
- No fire or explosion during nail penetration and crush tests
- Ultra-wide operating temperature range

## Low LCOS (Levelised Cost of Storage)

- Very long cycle life > 12.000 cycles, thanks to advanced material and process technologies
- Adopts Hithium Active Lithium-ion Technology with Sustained Release reducing degradation below 2% during first 1.000 cycles

# ESS Cell 300 Ah

Prismatic LFP cell optimised for use in stationary BESS



## GENERAL

Nominal Capacity	300 Ah <sup>1,2</sup>
Nominal Energy	960 Wh <sup>1,2</sup>
Cell Chemistry	LiFePo4 (LFP) + H.A.L.T. <sup>3</sup>
Nominal Cycles	> 12.000 <sup>1,2,4</sup>
Gravimetric	> 170 Wh/kg
Volumetric	> 370 Wh/l
Industry Standard (Type)	LFP71173207

## ELECTRICAL

Nominal Voltage	3,2 V <sup>1,2</sup>
Operating Voltage	T > 0°C 2,50 ... 3,65 V T ≤ 0°C 2,00 ... 3,65 V
AC Resistance (1 kHz)	0,19 mΩ <sup>5</sup>
Max. self discharge rate	3 % / month <sup>2,5</sup>
Nominal SOC at delivery	27 % <sup>2</sup>
Max. continuous charge rate	1 P
Max. continuous discharge rate	1 P

<sup>1</sup> 0,5 P / 0,5 P

<sup>2</sup> 25°C +/- 2,0

<sup>3</sup> HITHIUM Active Lithium-Ion Technology (with sustained release)

<sup>4</sup> 70 % SoH

<sup>5</sup> 27 % SOC

<sup>6</sup> ambient temperature

## MECHANICAL

Dimensions (L x W x H)	174,7 x 71,65 x 207,11 mm
Type	prismatic
Weight	5,62 kg +/- 0,2
Volume	2,59 l

## TEMPERATURE RANGE

Charging	0 °C ... 60 °C <sup>6</sup>
Discharging	-30 °C ... 60 °C <sup>6</sup>
Storing (recommended)	5 °C ... 35 °C <sup>6</sup>

## PRODUCT CERTIFICATIONS

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

## 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](mailto: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](mailto:hithium@hithium.com)



LinkedIn



Website