

# BESS **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 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 > 12,000 cycles at 0.5 P/0.5 P 70 % SOH due to advanced materials and process technologies
- Adopts Hithium Active Lithium-Ion Technology with Sustained Release
- < 2 % degradation during first 1,000 cycles

## Flexible and versatile use

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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)	-20°C ... 35°C (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

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