

# ESS **Cell** 50 Ah

Cylindric LFP cell optimised for use in stationary BESS



## **Cylindric LFP cell with high cyclic lifetime and improved safety characteristics.**

Specially optimised for use in stationary battery storage systems with high demands on safety, reliability and performance. Suitable e.g. for residential, commercial, and telecom stations.

- 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 cylindric 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)**

- Long cycle life > 8.000 cycles, thanks to advanced material and process technologies

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GENERAL	
Nominal Capacity	50 Ah <sup>1,2</sup>
Nominal Energy	160 Wh <sup>1,2</sup>
Cell Chemistry	LiFePo4 (LFP)
Nominal Cycles	8.000 <sup>2,3,6</sup>
Gravimetric	> 150 Wh/kg
Volumetric	> 340 Wh/l
Industry Standard (Type)	LFP64148

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)	0,7 mΩ <sup>4</sup>
Max. self discharge rate	3 % / month <sup>2,4</sup>
Nominal SOC at delivery	27 % <sup>2</sup>
Max. continuous charge rate	1 C
Max. continuous discharge rate	2 C

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

<sup>2</sup> 25°C +/- 2,0

<sup>3</sup> 70 % SOH

<sup>4</sup> 27 % SOC

<sup>5</sup> ambient temperature

<sup>6</sup> 1 C / 1C

MECHANICAL	
Dimensions (D x H)	64 x 148 mm
Type	cylindric
Weight	1 kg +/- 0,1
Volume	0,47 l

TEMPERATURE RANGE	
Charging	-20 °C ... 60 °C <sup>5</sup>
Discharging	-30 °C ... 60 °C <sup>5</sup>
Storing (recommended)	5 °C ... 35 °C <sup>5</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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