

BESS **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 requirements 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

- Supports low temperature charging at -20°C
- Passes crush and nail penetration test
- Ultra wide operating temperature range

Low LCOS (Levelised Cost of Storage)

- Long life cycle > 8.000 cycles at 1C/1C 70% SOH

Flexible and versatile use

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GENERAL	
Nominal Capacity	50 Ah ^{1,2}
Nominal Energy	160 Wh ^{1,2}
Cell Chemistry	LiFePo4 (LFP)
Nominal Cycles	8.000 ^{2,3,6}
Gravimetric	> 150 Wh/kg
Volumetric	> 330 Wh/l
Industry Standard (Type)	LFP64151

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)	≤ 0,7 mΩ ⁴
Max. self discharge rate	3%/month ^{2,4}
Nominal SOC at delivery	27% ²
Max. continuous charge rate	1C
Max. continuous discharge rate	2C

¹ 0,5C/0,5C

² 25°C +/- 2,0

³ 70% SOH

⁴ 27% SOC

⁵ ambient temperature

⁶ 1C/1C

MECHANICAL	
Dimensions (D x H)	64 x 151 mm
Type	cylindric
Weight	1 kg +/- 0,1
Volume	0,48 l

TEMPERATURE RANGE	
Charging	-20°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	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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