

Cell N162 Ah

Prismatic NFPP Cell for Utility-scale Energy Storage



Prismatic NFPP cell with high cyclic lifetime, ultra-wide temperature range and reliable safety characteristics.

Specially optimised for use in stationary energy storage systems with the highest requirements on safety, reliability and performance.

- Product certifications*:
GB/T 44265, UL1973, UL9540A
- Company certifications:
ISO 9001, ISO 14001, ISO 45001, SA 8000
- Environmental Compliance:
RoHS, REACH, Regulation (EU) 2023/1542, Cobalt free

Low LCOS (Levelised Cost of Storage)

- High cyclic lifetime ≥ 20.000 cycles, thanks to advanced material and process technologies
- High energy efficiency $\geq 94\%$ @1P
- Designed for Utility-scale Energy Storage systems

Wide Temperature Range

- Ultra wide temperature range(-40°C ... 60°C)

Reliable Safety

- HiTHIUM-developed prismatic NFPP cell with high thermal stability
- No fire or explosion during nail penetration and crush tests

∞Cell N162 Ah

Let sodium-ion battery be freely used in extreme conditions



GENERAL

Nominal Capacity	162 Ah ^{1,2}
Nominal Energy	456,8 Wh ^{1,2}
Cell Chemistry	NFPP ⁴ /HC ⁵
Nominal Cycles	≥ 20.000 ^{1,2,3}
Gravimetric ED	≥ 95,2 Wh/kg
Volumetric ED	≥ 173 Wh/L
Cell Model	NA162P100A

ELECTRICAL

Nominal Voltage	2,82 V ^{1,2}
Operating Voltage	1,5 ~ 3,3 V
AC Resistance (1 kHz)	0,18 mΩ +/- 0,05
Max. Self-discharge Rate	3 %/month ²
Nominal Continuous Charge/discharge Rate	1 P/1 P

¹ 1 P/1 P

² 25°C +/- 2,0

³ 70% SOH

⁴ $\text{Na}_4\text{Fe}_3(\text{PO}_4)_2\text{P}_2\text{O}_7$

⁵ Hard Carbon

* The certifications are in-progress.

MECHANICAL

Dimensions (L x W x H)	174,70 x 71,70 x 207,11 mm
Type	Prismatic
Weight	4,6 kg +/- 0,2
Volume	2,59 L

TEMPERATURE RANGE

Charging	-10°C ... 60°C
Discharging	-40°C ... 60°C
Storing (Recommended)	-20°C ... 35°C

PRODUCT CERTIFICATIONS

Safety Certificates	GB/T 44265, UL 9540A, UL 1973
Safe Transportation	UN 38.3

ENVIRONMENTAL

Compliance	RoHS, REACH, Cobalt free
Battery Regulation (EU)	2023/1542

COMPANY CERTIFICATIONS

ISO 9001, ISO 14001,
ISO 45001, SA 8000

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