

∞ Cell 587 Ah

Energy storage dedicated battery



First Draft

Lithium iron phosphate prismatic cell with features such as long cycle life and high safety

High safety & high reliability

Suitable for energy storage applications in power generation, grid, and industrial/commercial sectors.

- product certification *: IEC 62619, UL 9540A, UL 1973, GB/T 36276, UN 38.3
- Company certification: ISO 9001, ISO 14001, ISO 45001
- Environmental compliance*: RoHS, REACH, Battery Directive

High safety

- Select raw materials with high thermal stability
- Full acupuncture & large-area compression, non-flammable and non-explosive
- extremely wide operating temperature range

Low electricity cost

- Cycle life $\geq 10,000$ cycles, utilizing advanced materials and manufacturing technologies

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essential parameter	
nominal capacity	587 Ah ^{1,2}
Nominal energy	1,878.4 Wh ^{1,2}
Material system	LiFePO ₄ (LFP)
Cycle life	≥ 10,000 ^{1,2,3}
Weight energy density	~ 185 Wh/kg
Volume energy density	~ 413 Wh/L
Product model	ST587P050A

Electrical parameters	
Nominal voltage	3.2 V ^{1,2}
Working voltage	T > 0°C 2.50 ~ 3.65 V
	T ≤ 0°C 2.00 ~ 3.65 V
Self-discharge rate	3% / month ^{2,4}
Standard charging rate	0.5 P
Standard discharge rate	0.5 P

¹ 0.5 P / 0.5 P

² 25°C +/- 2.0

³ 70 % SOH ⁴

27 % SOC

* Verifying

mechanical interface	
Dimensions (length x width x height)	286 x 73.50 x 216.3 mm
Type	Square shell cell
Weight	10.20 kg +/- 0.2
Volume	4.55 L

Temperature range	
Charge	0°C ~ 60°C
Discharge	-30°C ~ 60°C
Storage (Recommended)	-20°C ~ 35°C

Product certification *	
Authentication & Reports	IEC 62619, UL 9540A, UL 1973
	GB/T 36276, UN 38.3

Environmental Compliance*	
	RoHS, REACH, Battery Directive

Company Certification	
	ISO 9001, ISO 14001, ISO 45001

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