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Technical specification

ELERIX EX-L100K

Energy Storage
LFP Cell

LiFePo4
Lithium Iron Cell
VDA 173/128

3.2V / 100Ah / 1C

EX-L100K



- ▶ High Energy Density Cell - 1C - 100A Discharge
- ▶ Lithium Iron Phosphate - LiFePO4 Chemistry
- ▶ Long Cycle and Calendar Life (3000 cycles / 15 years)
- ▶ Only Plus Temperature Range, No-Frost
- ▶ Superior quality and safety. No toxic chemicals

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LiFePo4, Lithium Iron Cell
3.2V / 100Ah / 1C



ELECTRICAL CHARACTERISTICS

Items	Specification	Remarks		
Product code	EX-L100K			
Nominal Voltage (V)	3.2			
Nominal Capacity (Ah)	100	Charge @0.5C Discharge @0.5C		
Nominal Energy (Wh)	320			
Form Factor	VDA 173/128 Size			
Terminal type	Circle terminal with M6 Hole			
Terminal material	Alu (-) / Alu (+)			
Cell Dimension (mm)	Width	173		
	Height	128	Without terminals	
	Thick	48		
Cell Volume (dm ³ - L)	1.06			
Nominal Weigth (kg)	2.30	Average value		
Energy Density	Gravity (Wh/kg)	139		
	Volume (Wh/L)	301		
Internal Resistance mOhm (Max)	0.4			
Voltage	Minimal (V)	2.5		
	Maximal (V)	3.65		
Current	Charge	Standard (A)	50	
		Max. Cont. (A)	100	
	Discharge	Standard (A)	50	
		Max. Cont. (A)	100	continued, temp ≤ 50°C
		Peak (A)	200	≤ 30 sec, temp ≤ 50°C
Cycle Life at 80% DOD	3000	@0.3C/1C, @25°C, >80% SOH		
Operating Lifespan (Calendar Life)	15 years	Avarage material aging estimation		
Operating Temperature	Charge (°C)	0 ≈ +50 °C		
	Discharge (°C)	-20 ≈ +60 °C		
	Storage (°C)	-20 ≈ +45 °C		

KEY SAFETY FEATURES

Items	Specification
Fire	No Self-ignition, No Explosion.
Overcharge	No Explosion. No Fire.
Short-circuit	No Explosion. No Fire.
Penetration	Smoke only. No Fire.
Crush	Smoke only. No Fire.
Overheating	Stable up to +130°C. No fire.
Non-toxic	No Cobalt, No Lead-Acid.
Recycling	+90% Recyclable.

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