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Technical specification

# ELERIX EX-L50K

## High Power LFP Cell

LiFePo4  
**Lithium Iron Cell**  
VDA 173/100

**3.2V / 50Ah / 3C**

EX-L50K



- ▶ High Power Cell - up to 3C - 150A Discharge
- ▶ Lithium Iron Phosphate - LiFePO4 Chemistry
- ▶ Long Cycle and Calendar Life (4500 cycles / 15 years)
- ▶ Only Plus Temperature Range, No-Frost
- ▶ Superior quality and safety. No toxic chemicals.

# ELERIX EX-L50K

LiFePo4, Lithium Iron Cell  
3.2V / 50Ah / 3C



## ELECTRICAL CHARACTERISTICS

Items	Specification	Remarks		
Product code	EX-L50K			
Nominal Voltage (V)	3.2			
Nominal Capacity (Ah)	50	Charge @0.5C Discharge @0.5C		
Nominal Energy (Wh)	160			
Form Factor	VDA 173/100 Size			
Terminal type	Block Terminal with M8 Hole			
Terminal material	Alu (-) / Alu (+)			
Cell Dimension (mm)	Width	173		
	Height	97	Without terminals	
	Thick	40		
Cell Volume (dm <sup>3</sup> - L)	0.67			
Nominal Weigth (kg)	1.32	Average value		
Energy Density	Gravity (Wh/kg)	121		
	Volume (Wh/L)	238		
Internal Resistance mOhm (Max)	0.8			
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)	150	≤ 3 min, temp ≤ 50°C
		Peak (A)	250	≤ 30 sec, temp ≤ 50°C
Cycle Life at 80% DOD	4500	@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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