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Technical specification

ELERIX EX-L50D

High Energy Density Storage LFP Cell

LiFePo4
Lithium Iron Cell
VDA 148/100

3.2V / 50Ah / 1C

EX-L50D



- ▶ High Energy Density Cell - 1C - 50A 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 / 50Ah / 1C



ELECTRICAL CHARACTERISTICS

Items	Specification	Remarks		
Product code	EX-L50D			
Nominal Voltage (V)	3,2			
Nominal Capacity (Ah)	50	Charge @0.5C Discharge @0.5C		
Nominal Energy (Wh)	160			
Form Factor	VDA 148/100 Size			
Terminal type	Block Terminal with M8 Hole			
Terminal material	Alu (-) / Alu (+)			
Cell Dimension (mm)	Width	148		
	Height	96	Without terminals	
	Thick	40		
Cell Volume (dm ³ - L)	0,57			
Nominal Weigth (kg)	1,18	Average value		
Energy Density	Gravity (Wh/kg)	136		
	Volume (Wh/L)	282		
Internal Resistance mOhm (Max)	0,8			
Voltage	Minimal (V)	2,5		
	Maximal (V)	3,65		
Current	Charge	Standard (A)	25	
		Max. Cont. (A)	50	
	Discharge	Standard (A)	50	
		Max. Cont. (A)	50	Continued, temp ≤ 50°C
		Peak (A)	100	≤ 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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