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Technical specification

# ELERIX EX-L100EU

## High Power LFP Cell

MADE IN EU



EUROPEAN UNION

LiFePo4  
**Lithium Iron Cell**

120 / 234

**3.2V / 100Ah / 3C**

EX-L100EU



- ▶ High Power Cell - up to 3C - 300A Discharge
- ▶ Lithium Iron Phosphate - LiFePO4 Chemistry
- ▶ ESS Storage Life (10000 cycles / 15+ years)
- ▶ Heavy Duty Cycle Life (3000 cycles / 15 years)
- ▶ Wide Temperature Range, Including Sub-Zero Operation
- ▶ Superior quality and safety. No toxic chemicals

# ELERIX EX-L100EU

LiFePO<sub>4</sub>, Lithium Iron Cell  
3.2V / 100Ah / 3C



## ELECTRICAL CHARACTERISTICS

Items	Specification	Remarks		
Product code	EX-L100EU			
Nominal Voltage (V)	3.2			
Nominal Capacity (Ah)	100	Charge @0.5C Discharge @0.5C		
Nominal Energy (Wh)	320			
Form Factor	120/234 size			
Terminal type	Screw M6 Hole			
Terminal material	Alu (-) / Alu (+)			
Cell Dimension (mm)	Width	120		
	Height	234	Without terminals	
	Thick	60		
Cell Volume (dm <sup>3</sup> - L)	1.68			
Nominal Weigth (kg)	3.45	Average value		
Energy Density	Gravity (Wh/kg)	93		
	Volume (Wh/L)	190		
Internal Resistance mOhm (Max)	2			
Voltage	Minimal (V)	2.5		
	Maximal (V)	3.65		
Current	Charge	Standard (A)	50	
		Max. Cont. (A)	200	100A cont, 200 A peak ≤ 30 sec, temp ≤ 50°C
	Discharge	Standard (A)	100	
		Max. Cont. (A)	300	Continued, temp ≤ 50°C
		Peak (A)	500	≤ 30 sec, temp ≤ 50°C
ESS Cycle Life at 60% DOD	10000	@0.3C/0.3C, @25°C, >60% SOH		
Cycle Life at 80% DOD	3000	@0.3C/1C, @25°C, >80% SOH		
Operating Lifespan (Calendar Life)	15+ years	Average material aging estimation		
Operating Temperature	Charge (°C)	-20 ~ +50 °C	Recommended temperature: +25°C. Maximal temperature for permanent operation: +45°C.	
	Discharge (°C)	-20 ~ +50 °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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