



You Power The Life
www.elerix.com

Technical specification

ELERIX EX-L100K

Energy Storage
LFP Cell

LiFePo4
Lithium Iron Cell
VDA 174/128

3.2V / 100Ah / 1C

EX-L100K



- ▶ High Energy Density Cell - 1C - 100A Discharge
- ▶ Lithium Iron Phosphate - LiFePO4 Chemistry
- ▶ Long Cycle and Calendar Life (6000 cycles / 15 years)
- ▶ Only Plus Temperature Range, No-Frost
- ▶ Superior quality and safety. No toxic chemicals

ELERIX EX-L100K

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



ELECTRICAL CHARACTERISTICS

Items			Specification	Remarks
Product code			ELERIX EX-L100K	
Nominal Voltage (V)			3.2	
Nominal Capacity (Ah)			100	Charge @0.5C Discharge @0.5C
Nominal Energy (Wh)			320	
Form Factor			VDA 174/128	
Terminal type			Circle terminal with M6 Hole	Max Torque 6 N/m
Terminal material			Alu (-) / Alu (+)	
Cell Dimension (mm)	Width		174	
	Height		128	Without terminals
	Thick		48	
Cell Volume (dm³ - L)			1.07	
Nominal Weigth (kg)			2.20	Average value
Energy Density	Gravity (Wh/kg)		145	
	Volume (Wh/L)		299	
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
ESS Cycle Life (60% DOD)			6000	@0.3C/@0.3C, @25°C, >60% SOH
Cycle Life (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	Recommended temperature: +25°C Maximal temperature for permanent operation: +45°C
	Discharge (°C)		0 ≈ +50 °C	
	Storage (°C)		-20 ≈ +50 °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.

Rev. 10/2024

Are you interested in more details?
Visit our online presentation.



ELERIX.com >