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Technical specification

ELERIX EX-L314

Energy Storage
LFP Cell

LiFePo4
Lithium Iron Cell
VDA PLUS 174/204

3.2V / 314Ah / 1C

EX-L314



- ▶ High Energy Density Cell - 1C - 300A 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
- ▶ Large size M10 terminals

ELERIX EX-L314

LiFePO₄, Lithium Iron Cell
3.2V / 314Ah / 1C



ELECTRICAL CHARACTERISTICS

Items			Specification	Remarks
Product code			ELERIX EX-L314	
Nominal Voltage (V)			3.2	
Nominal Capacity (Ah)			314	Charge @0.5C Discharge @0.5C
Nominal Energy (Wh)			1005	
Form Factor			VDA PLUS 174/204	
Terminal type			Block Terminal with M10 Hole	Max Torque 10 N/m
Terminal material			Alu (-) / Alu (+)	
Cell Dimension (mm)	Width		174	Without terminals
	Height		204	
	Thick		72	
Cell Volume (dm³ - L)			2.56	
Nominal Weigth (kg)			5.65	Average value
Energy Density	Gravity (Wh/kg)		178	
	Volume (Wh/L)		393	
Internal Resistance mOhm (Max)			0.4	
Voltage	Minimal (V)		2.5	
	Maximal (V)		3.65	
Current	Charge	Standard (A)	160	
		Max. Cont. (A)	300	
	Discharge	Standard (A)	160	
		Max. Cont. (A)	300	continued, temp ≤ 50°C
		Peak (A)	360	≤ 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.

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