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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	continued, temp ≤ 50°C ≤ 30 sec, temp ≤ 50°C
		Max. Cont. (A)	300	
	Discharge	Standard (A)	160	
		Max. Cont. (A)	300	
		Peak (A)	360	
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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