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Technical specification

ELERIX EX-L280

High Energy
Density
Storage LFP
Cell

LiFePo4

Lithium Iron Cell

VDA PLUS 174/204

3.2V / 280Ah / 1C

EX-L280



- ▶ High Energy Density Cell - 1C - 280A 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
- ▶ Large size M10 terminals

ELERIX EX-L280

LiFePO₄, Lithium Iron Cell
3.2V / 280Ah / 1C



ELECTRICAL CHARACTERISTICS

Items	Specification	Remarks		
Product code	EX-L280			
Nominal Voltage (V)	3.2			
Nominal Capacity (Ah)	280	Charge @0.5C Discharge @0.5C		
Nominal Energy (Wh)	896			
Form Factor				
Terminal type	Block Terminal with M10 Hole			
Terminal material	Alu (-) / Alu (+)			
Cell Dimension (mm)	Width	174		
	Height	204	Without terminals	
	Thick	72		
Cell Volume (dm ³ - L)	2.56			
Nominal Weighth (kg)	5.34	Average value		
Energy Density	Gravity (Wh/kg)	168		
	Volume (Wh/L)	351		
Internal Resistance mOhm (Max)	0.3			
Voltage	Minimal (V)	2.5		
	Maximal (V)	3.75		
Current	Charge	Standard (A)	140	
		Max. Cont. (A)	280	
	Discharge	Standard (A)	140	
		Max. Cont. (A)	280	Continued, temp ≤ 50°C
		Peak (A)	420	≤ 30 sec, temp ≤ 50°C
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)	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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