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Technical specification

# ELERIX EX-L12V100R

High Energy LFP  
Front Terminal  
12V Battery

LiFePo4

**Lithium Iron Front  
Terminal Battery**

VDA 395 / 110 / 287

**12.8V / 100Ah / 1C**

EX-L12V100R



- ▶ High Energy Density Battery - 1C - 100A Discharge
- ▶ Lithium Iron Phosphate - LiFePO4 Chemistry
- ▶ Long Cycle and Calendar Life (3000 cycles / 15 years)
- ▶ Standard Front Battery Size
- ▶ Auxiliary Cell Management Connector
- ▶ Superior quality and safety. No toxic chemicals

# ELERIX EX-L12V100R

High Energy LFP Front Terminal 12V Battery  
12.8V / 100Ah / 1C



## ELECTRICAL CHARACTERISTICS

Items	Specification	Remarks		
Product code	EX-L12V100R			
Nominal Voltage (V)	12.8			
Nominal Capacity (Ah)	100	Charge @0.5C Discharge @0.5C		
Nominal Energy (Wh)	1280			
Form Factor	395/110/287 Front Terminal			
Terminal type	Screw M8 Hole			
Terminal material	Copper Alloy (+) / (-)			
Cell Dimension (mm)	Width	395		
	Height	287	Without terminals	
	Thick	110		
Cell Volume (dm <sup>3</sup> - L)	12.47			
Nominal Weight (kg)	11.70	Average value		
Energy Density	Gravity (Wh/kg)	109		
	Volume (Wh/L)	103		
Internal Resistance mOhm (Max)	4.0			
Voltage	Minimal (V)	10		
	Maximal (V)	14.6		
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
Cycle Life at 80% DOD	3000	@0.3C/1C, @25°C, 80% DOD, >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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