



You Power The Life
www.elerix.com

Technical specification

ELERIX EX-T33K

Extreme Power
LTO Cell

LTO
Lithium Titanate
Oxide Cell

VDA 174/100

2.4V / 33Ah / 6C

EX-T33K



- ▶ Extreme Power Cell - up to 6C - 200A Discharge
- ▶ Lithium Titanate - LTO Chemistry
- ▶ Extremely Long Cycle and Calendar Life (16000+ cycles / 30 years)
- ▶ Extreme Temperature Range and Performance - Total Sub-Zero
- ▶ The highest quality and the highest safety. No toxic chemicals.

ELERIX EX-T33K

LTO, Lithium Titanate Oxide Cell
2.4V / 33Ah / 6C



ELECTRICAL CHARACTERISTICS

Items	Specification	Remarks		
Product code	ELERIX EX-T33K			
Nominal Voltage (V)	2.3			
Nominal Capacity (Ah)	33	Charge @0.5C Discharge @0.5C		
Nominal Energy (Wh)	76			
Form Factor	VDA 174/100			
Terminal type	Block Terminal with M8 Hole	Max Torque 8 N/m		
Terminal material	Alu (-) / Alu (+)			
Cell Dimension (mm)	Width	174		
	Height	97	Without terminals	
	Thick	28		
Cell Volume (dm ³ - L)	0.47			
Nominal Weigth (kg)	1.04	Average value		
Energy Density	Gravity (Wh/kg)	73		
	Volume (Wh/L)	161		
Internal Resistance mOhm (Max)	0.5			
Voltage	Minimal (V)	1.5		
	Maximal (V)	2.9		
Current	Charge	Standard (A)	33	
		Max. Cont. (A)	200	
	Discharge	Standard (A)	33	
		Max. Cont. (A)	200	continued, temp ≤ 50°C
		Peak (A)	300	≤ 10 sec, temp ≤ 50°C
ESS Cycle Life (60% DOD)	30000	@0.5C/0.5C, @25°C, >60% SOH		
Cycle Life (80% DOD)	16000	@1C/1C, @25°C, >80% SOH		
Operating Lifespan (Calendar Life)	30 years	Avarage material aging estimation		
Operating Temperature	Charge (°C)	-40 ≈ +50 °C	Recommended temperature: +25°C. Maximal temperature for permanent operation: +45°C	
	Discharge (°C)	-40 ≈ +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 >