

Technical specification

LTO1865-13 Rechargeable Cell

Lithium Titanate Oxide (LTO)
High-power cell



[PRODUCT WEBPAGE](#)



The technical specification of the lithium titanate cell

THE ADVANTAGES OF THE LTO1865-13 CELLS

- Professionally produced LTO (lithium titanium) cells
- Stability during high current discharge – support up to 15 C continually, 20 C peak discharge
- Support for high speed charging – up to 6 C charging currents
- The discharge with long linear voltage level (2.60 V to 2.30 V)
- Round 18650 style design of the cell for easy integration
- Minimal overheating or heat release during operation

Specifications	
Model name	LTO1865-13
Nominal voltage (V)	2.40 V
Nominal capacity (Ah) Minimal capacity (Ah)	1300 mAh, 1250 mAh
Max voltage per cell (V)	2.80 V
Balancing voltage per cell (V)	2.75 V
Discharge voltage (V)	1.85 V
Minimal voltage per cell (V)	1.50 V
Operating voltage (V)	1.85 V to 2.75 V
Optimal discharge current (Amp)	< 1.3 A (1 C)
Maximal discharge current (Amp)	< 13 A (10 C)
Max peak discharge current (Amp)	< 26 A (20 C, < 10 seconds)
Optimal charge current (Amp)	< 1.3 A (1 C)
Maximal charge current (Amp)	< 6 A (5 C)
Internal resistance (mOhm)	< 20 mOhm
Cycle life (80 % DOD at 20 °C, at 0.5 C charge)	> 5 000 cycles at 3 C discharge > 10 000 cycles at 1 C discharge > 20 000 cycles at 0.5 C discharge
Self discharge rate (% per month)	< 3 %
Operating temperature (charging)	-15 °C to + 45 °C
Operating temperature (discharging)	-25 °C to + 55 °C
Temperature / Capacity	25 °C = 100 % 0 °C > 80 % -10 °C > 70 % -20 °C > 60 %
Dimensions - width x length x thick (mm)	65x19 mm
Weight (tolerance +/- 3 g)	> 39 g



	GWL POWER	Global World Logistic Ltd., 6 Bexley Square Salford, Manchester M3 6BZ, UK
		LTO1865-13 LTO engineering sample
Lithium Titanate Oxide Technology Cell		
2.4V 1.3Ah 3.1Wh 		
Charge voltage 2.7V	Min. voltage 1.5V	Min. capacity 1.1Ah
Nominal current 1C 1.3A	Peak current 20C (<10s) 26A	



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