

LTO1865-13

Technical specification

Lithium Titanate Oxide (LTO)

High-power cell

January 2016

<http://www.ev-power.eu>




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 15C continually, 20C peak discharge
- support for high speed charging – up to 6C charging currents
- the discharge with long linear voltage level (2.60V to 2.30V)
- round 18650 style design of the cell for easy integration
- minimal overheating or heat release during operation

Model name	LTO1865-13
Nominal voltage (V)	2.40 V
Nominal capacity (Ah)	1300 mAh
Minimal capacity (Ah)	950 mAh
Max voltage per cell (V)	2.80 V
Balancing voltage per cell (V)	2.75 V
Discharge voltage (V)	1.85V
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 (1C)
Maximal discharge current (Amp)	< 13 A (10C)
Max peak discharge current (Amp)	< 26 A (20C, < 10 seconds)
Optimal charge current (Amp)	< 1.3 A (1C)
Maximal charge current (Amp)	< 6 A (5C)
Internal resistance (mOhm)	< 1 mOhm
Cycle life (80% DOD at 20°C, at 0.5C charge)	> 5 000 cycles at 3C discharge > 10 000 cycles at 1C discharge > 20 000 cycles at 0.5C 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)	65 x 19 mm
Weight (tolerance +/- 3g)	> 39 g



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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



GWL/Power LTO1865-13

Dimensions 65 x 19 mm



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