

OSN POWER TECH LIMITED

Technical specification

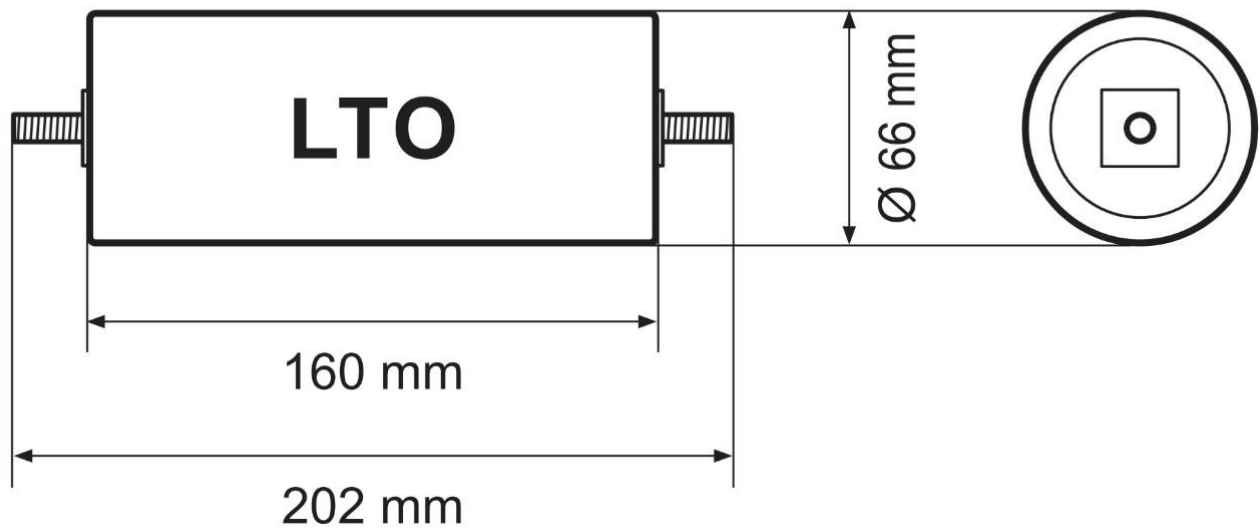
Lithium Titanate Oxide Battery Cell - LTO 2.3V 40AH



Key Features

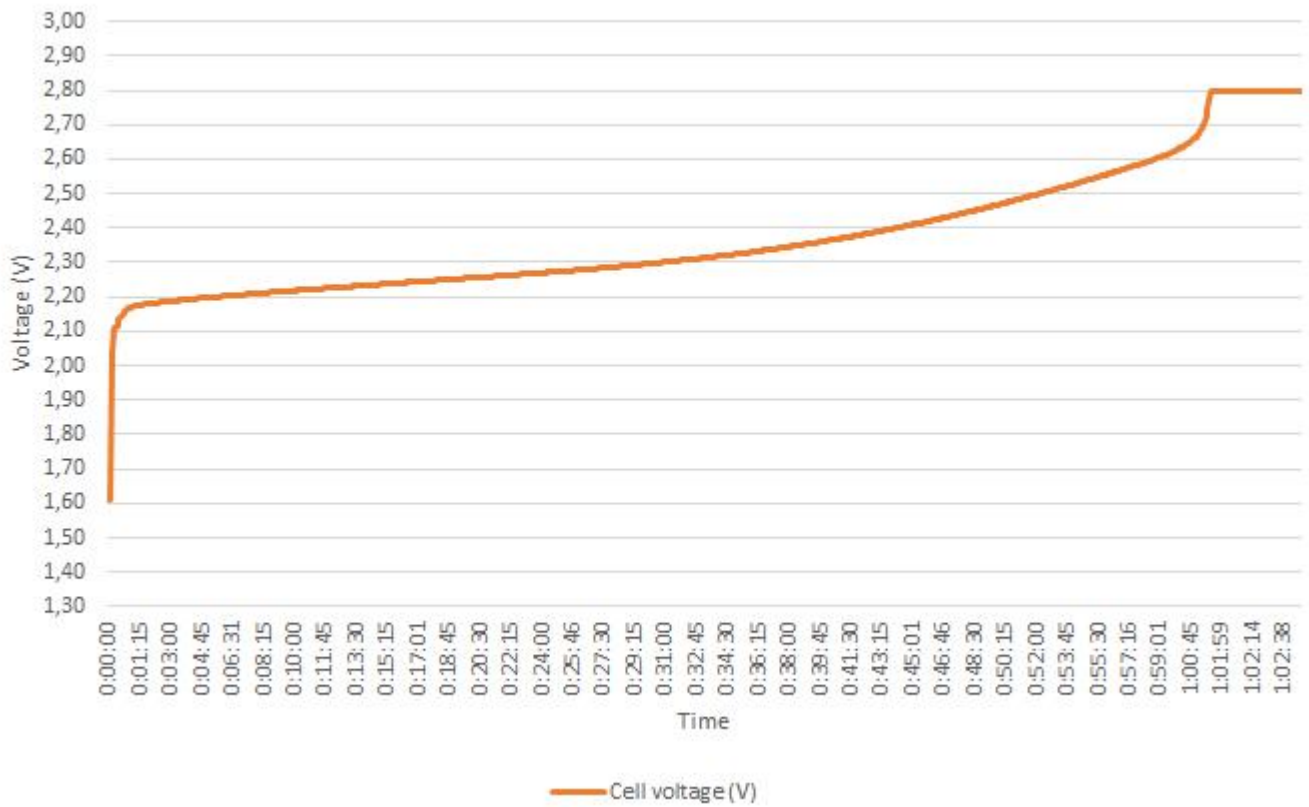
1. FASTER CHARGING: fully charged in 10 minutes
2. HIGH DISCHARGE RATE: up to 10C
3. WIDE WORKING TEMPERATURE RANGE: -50°C ~ 65°C
4. VERY LONG LIFETIME: over 30,000 cycles

Engineering drawing (mm)

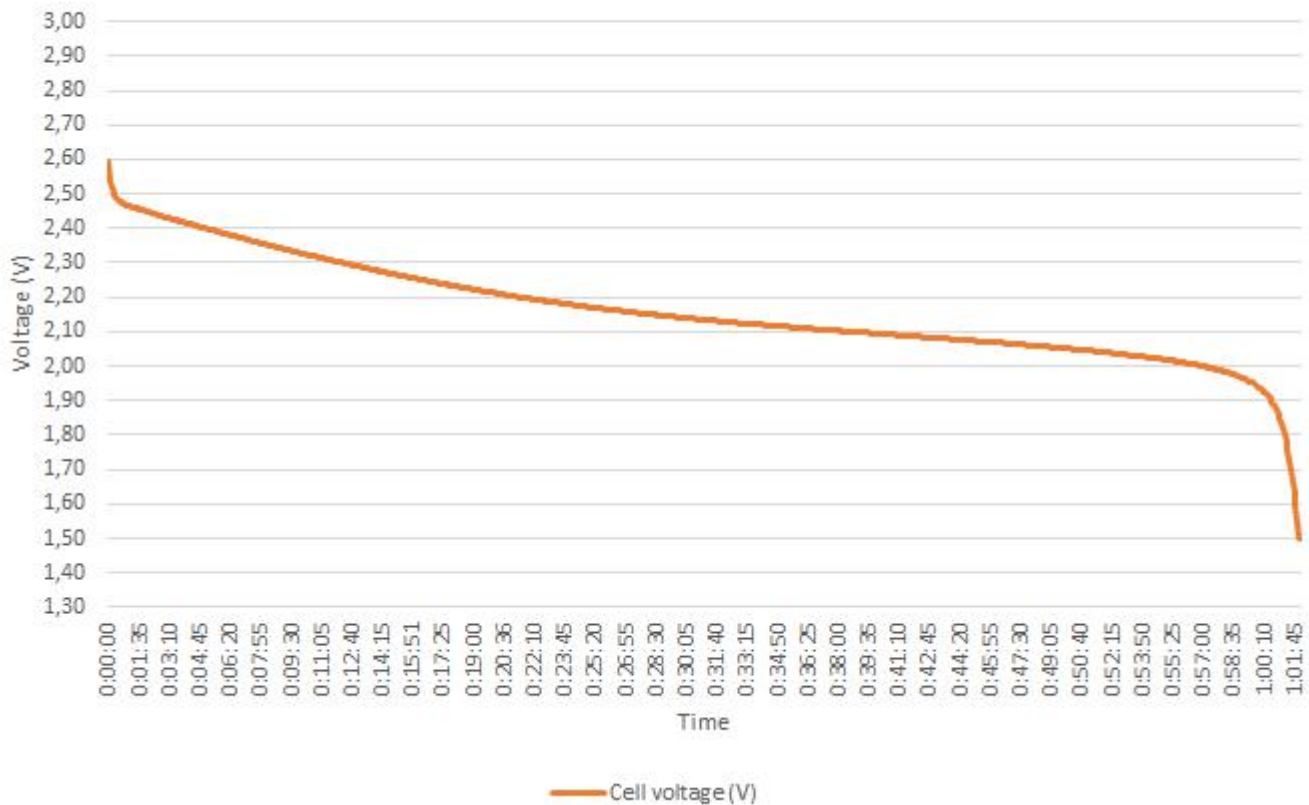


Curves

Charge (40 A / 1C)



Discharge (40 A / 1C)



Technical specification

LTO-40Ah	Specifications
Battery type	Lithium Titanate Battery (LTO)
Electrical data	
Nominal capacity	40 Ah
Nominal Voltage	2.3 V
Internal resistance	≤ 1mΩ
Max. charging current	10 C (400 A)
Charging upper limit voltage	2.8 V
Max. discharge current	10 C (400 A)
Discharge cut-off voltage	1.5 V
Cycle lifetime	30,000
Operational requirements	
Operating ambient temperature	-50°C ~ 65°C (Charging) -50°C ~ 65°C (Discharging)
Storage ambient temperature	-20°C ~ 45°C Short-term (within 1 month) -20°C ~ 20°C Long-term (within 1 year)
Storage humidity	<70%
Mechanical data	
Weight	1.25 kg
Cell construction type	Cylindrical
Cell diameter	66 mm
Cell height (excluding terminals)	160 mm
Cell height (including terminals)	202 mm
Shell material	Aluminum