

WWW.Batterytalks.com

Technical specification

Lithium Titanate Oxide Battery Cell - LTO 2.4V 20AH(Prismatic)



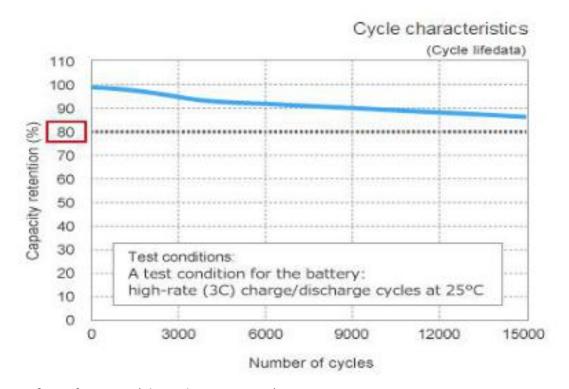
Key Features

- 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 25,000 cycles

Curve& Characteristics:

A. Long Life Performance(Cycle Characteristics):

The 20Ah LTO cell maintains over 80% of its capacity after 15,000 charge/discharge cycles at a tough charge/discharge rate(3C) condition.

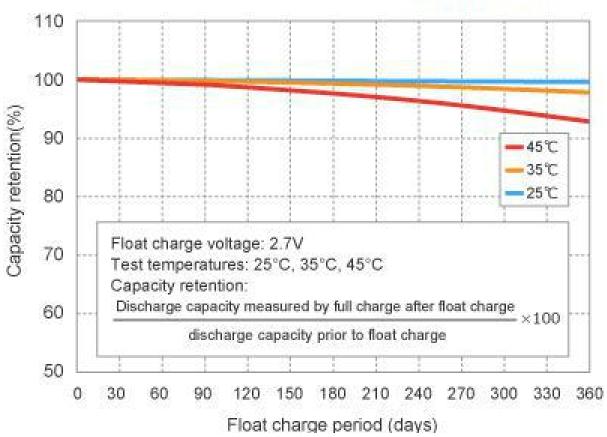


B. Long Life Performance(Float Characteristics):

The 20Ah LTO cell exhibits low deterioration even at float charging where conventional lithium-ion batteries get damaged. Therefore, the 20Ah LTO cell can be used in applications such as back-up power source that requires constant voltage charging.

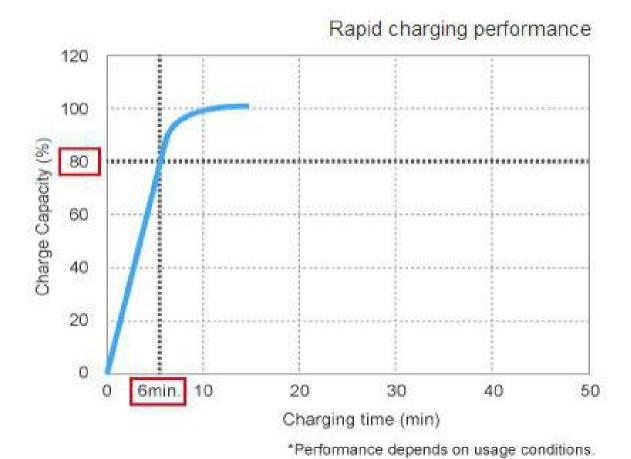
^{*} Float charging means continuous constant voltage charging.





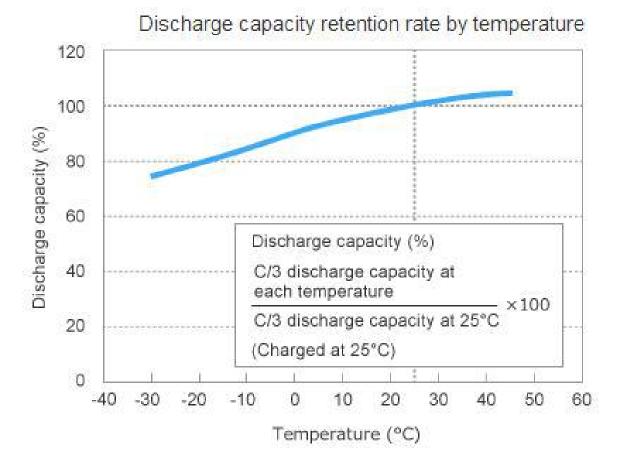
C. Rapid Charging Performance:

The 20Ah LTO cell can be charged from 0 to over 80% SOC* in six minutes. * State of Charge



D. Low-temperature Operation:

The 20Ah LTO cell can provide adequate discharge capacity at temperatures as low as -30°C. The 20Ah LTO cell can also be charged at low temperatures, making it suitable for applications that require a wide temperature range.



Technical specification

LTO-20Ah(Toshiba)	Specifications
Battery type	Lithium Titanate Battery (LTO)
Electrical data	
Nominal capacity	20 Ah
Nominal Voltage	2.4 V
Internal resistance	≤ 0.8mΩ
Max. charging current	10 C (200 A)
Charging upper limit voltage	2.9V
Max. discharge current	10 C (200 A)
Discharge cut-off voltage	1.5 V
Cycle lifetime	25,000
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	515g
Cell construction type	Prismatic
Cell Length	116 mm
Cell height (excluding terminals)	106 mm
Cell Thickness	22 mm
Energy Density	176Wh/L