

Lithium Titanate Battery

2.4V 20Ah Lithium Titanate Cell

1. Basic Specifications:

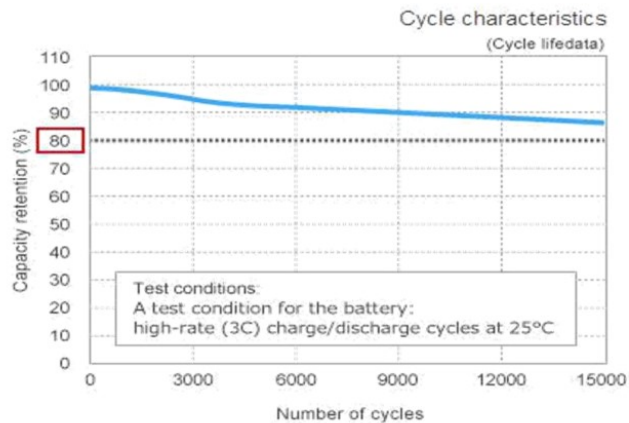
Model Number: Toshiba-LTO-20AH
Nominal Voltage: 2.4V
Nominal Capacity: 20 Ah
Charge Cut-off Voltage: 2.7V
Discharge Cut-off Voltage: 1.5V
Dimensions: (W)116mm x (D)22mm x (H)106mm
Weight: 515g

Nominal capacity	20Ah
Energy density	176 Wh/L
Dimensions	W116 x D22 x H106 mm
Weight	515 g

2. Characteristics:

A. Long Life Performance (Cycle Characteristics):

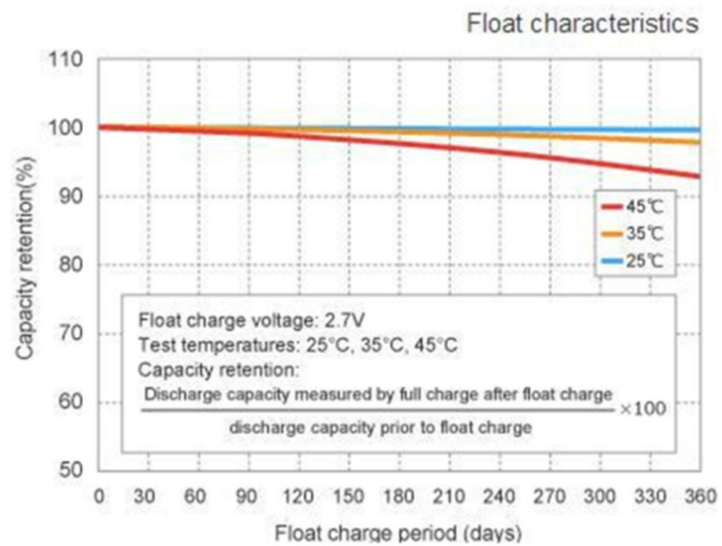
The 20Ah LTO cell maintains over 80% of its capacity after 15,000 charge/discharge cycles at a tough charge/discharge rate (3C) condition.



B. Long Life Performance (Float Characteristics*):

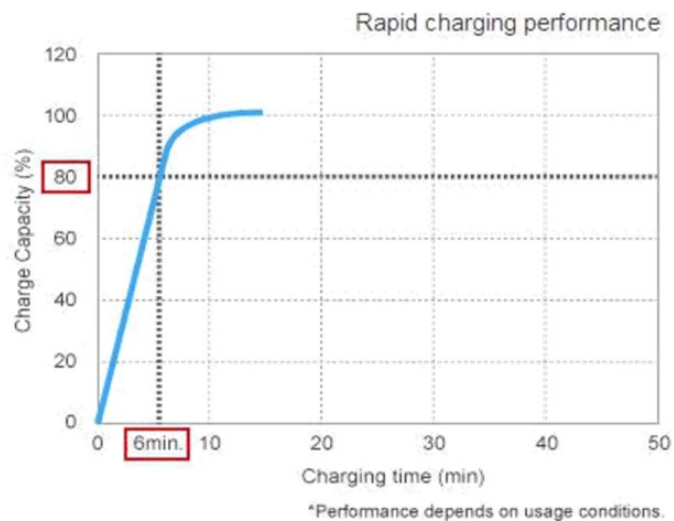
The 20Ah LTO cell exhibits low deterioration even at float charging where conventional lithium-ion batteries get damaged. Therefore, the 20Ah LTO cell can be used in applications such as back-up power source that requires constant voltage charging.

* Float charging means continuous constant voltage charging.



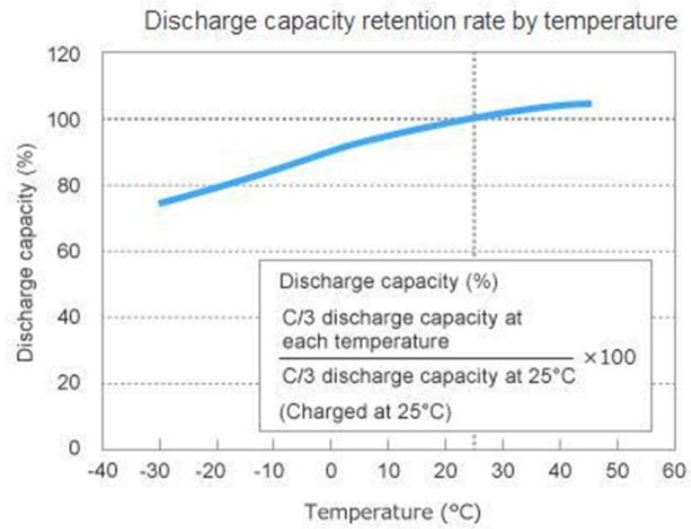
C. Rapid Charging Performance:

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



D. Low-temperature Operation:

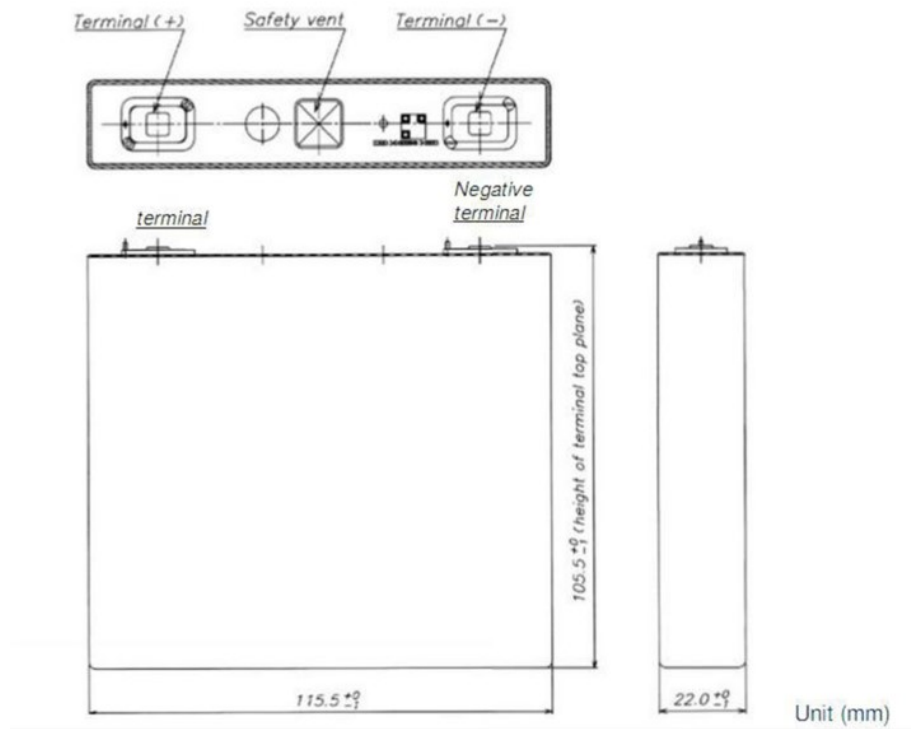
The 20Ah LTO cell can provide adequate discharge capacity at temperatures as low as -30°C. The 20Ah LTO cell can also be charged at low temperatures, making it suitable for applications that require a wide temperature range.



3. Picture:



4. Dimensions:



5. Applications:

The 20Ah LTO rechargeable battery provides outstanding safety and environmental robustness. The 20Ah LTO cell is widely used in transportation systems, general battery-driven industrial equipment and emergency backup power supplies, as well as in large-scale stationary battery energy storage systems (BESS) used for frequency regulation at power stations.

