

High Power Lithium Manganese Cell

For all applications like e-bike, garden tools, golf caddies etc.

1. General

1.1 Scope

1.2 Name and Code

- 1.2.1 Cell Name : BM18650Z2
- 1.2.2 Model Number: BM18650Z2

1.3 Cell Shape and Weight

- 1.3.1 Cell Shape: Cylindrical
- 1.3.2 Size (with plastic tube) :
 - Diameter: 18.15 mm max
 - Length: 65.10 mm max
- 1.3.3 Weight: 44.0 g Average

1.4 Safety Regulation

UL acquired

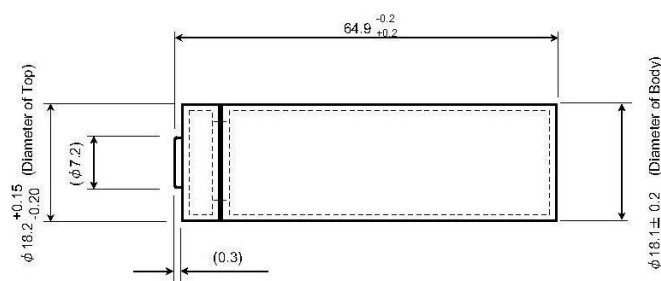
2. Performance

at room temperature, 2.5V cut off

Nominal Capacity (0.2ItA discharge)	2100mAh 7.56Wh	average capacity 3.6V (average discharge voltage)
Rated Capacity (0.2ItA discharge)	2000mAh 7.20Wh	minimum capacity
Capacity at 1ItA	2005mAh 7.20Wh	average capacity
Capacity at 10A	2133mAh 6.80Wh	average capacity
Nominal Voltage	3.6V	
Internal Impedance	31mΩ Typ.	measured by AC1kHz
Cycle Performance	80 % Min. of Initial capacity at 500 cycles	10A discharge



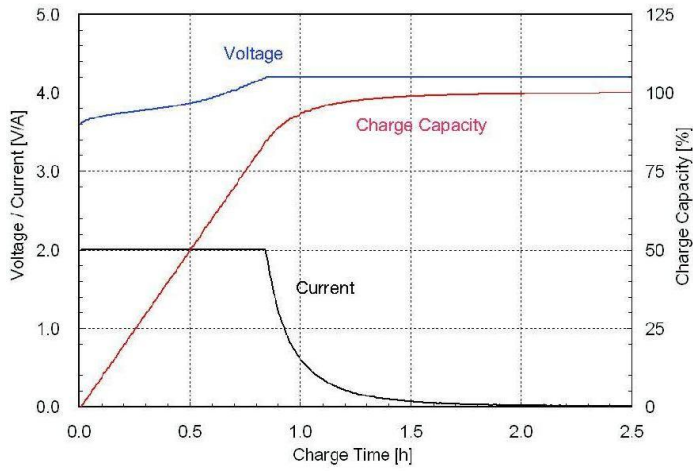
Cell Size (with plastic tube)



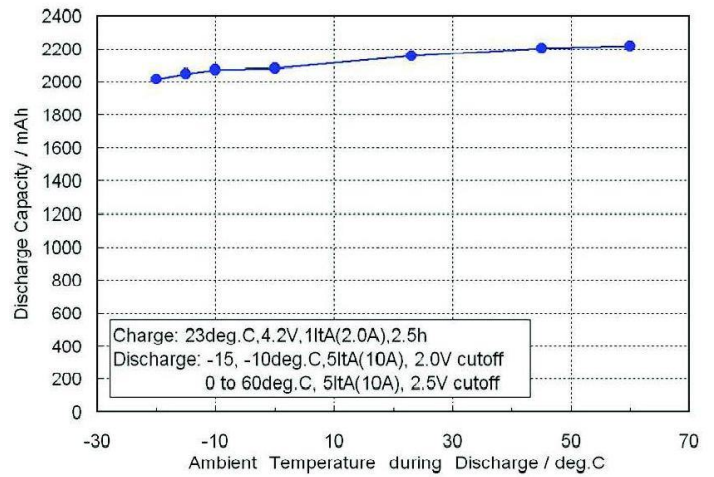
* Standard Charge Condition

- Charge Method : constant current, constant voltage
- Charge Up Voltage : 4.2±0.05V
- Charge Current : 2.0A
- Charge Time : 2.5h
- Ambiance Temperature : 23°C

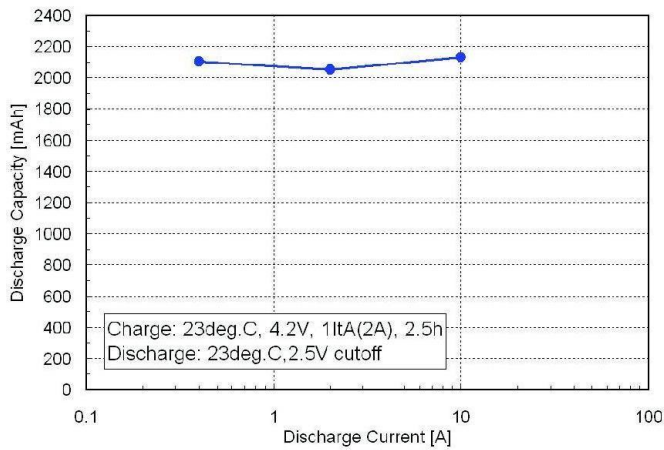
Charge Characteristics



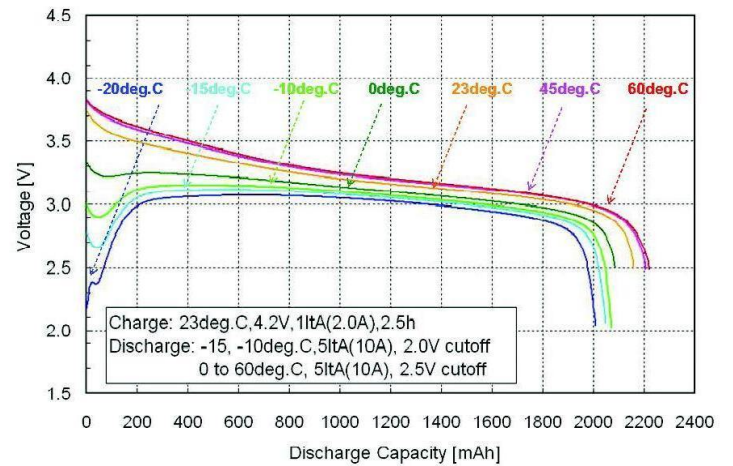
Temperature Dependence of Discharge Capacity



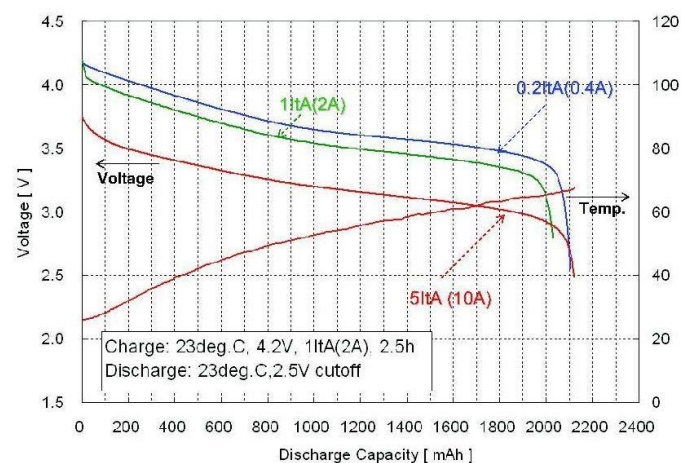
Discharge Load Characteristics



Temperature Dependence of Discharge Curves



Discharge Load Characteristics



Cycle Life Performance

