

Li-ion Rechargeable Battery Technical Information

Cell Name BM18650ZTC2
Cell Type Cylindrical
Model Number US18650VTC2

1. General

1.1 Scope

1.2 Name and Code

1.2.1 Cell Name : US18650VT
 1.2.2 Model Number : US18650VTC2
 1.2.3 Sony Code : -

1.3 Cell Shape and Weight

1.3.1 Cell Shape : Cylindrical
 1.3.2 Size (with plastic tube) : Diameter 18.15mm max
 Length 65.10mm max
 1.3.3 Weight : 43.4g Average

1.4 Safety Regulation

Sony will acquire UL1642.

2. Performance

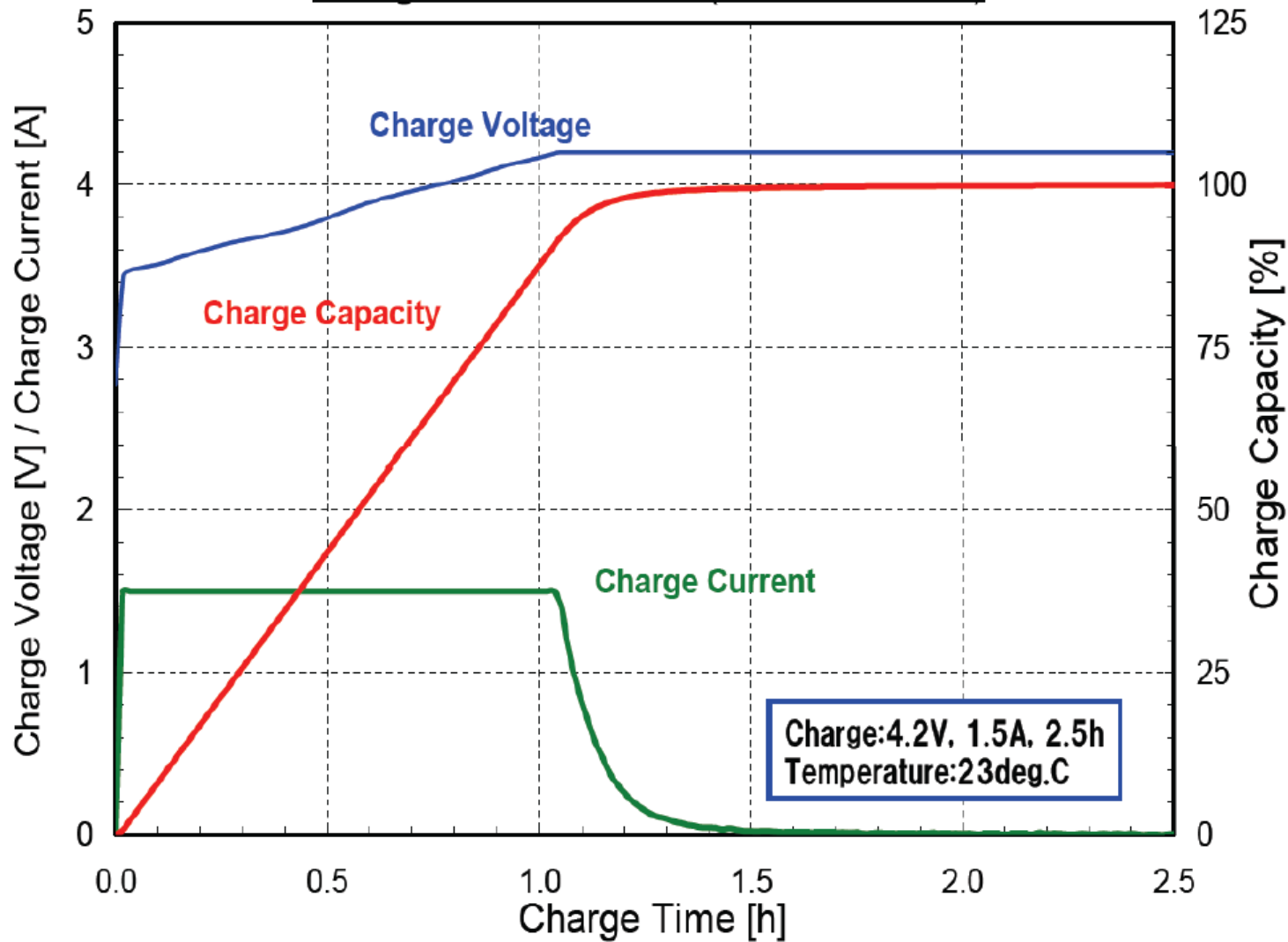
at room temperature, 2.5V cut off

Nominal Capacity (0.2C discharge)	1650mAh 6.07Wh	average capacity 3.68V (average discharge voltage)
Rated Capacity (0.2C discharge)	1550mAh 5.71Wh	minimum capacity
Capacity at 1C	1620mAh 5.93Wh	average capacity
Capacity at 10A	1530mAh 5.26Wh	average capacity
Nominal Voltage	3.7V	
Internal Impedance	16mΩ Typ.	measured by AC1kHz
Cycle Performance	60 % Min. of Initial capacity at 1000 cycles	10A discharge

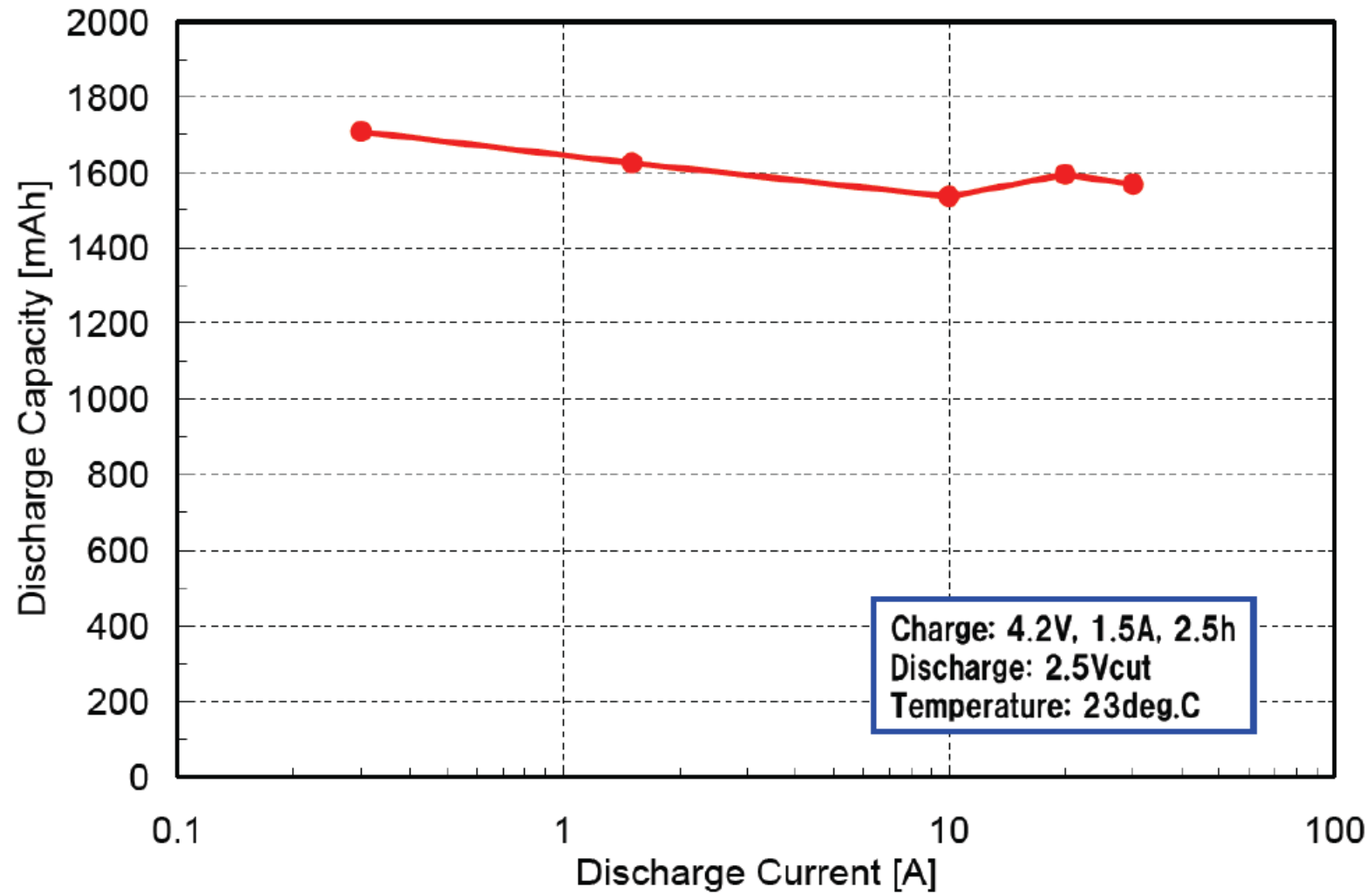
* Standard Charge Condition

Charge Method : constant current constant voltage
 Charge Up Voltage : 4.2 ± 0.05V
 Charge Current : 1.55A
 Charge Time : 2.5h
 Ambiance Temperature : 23°C

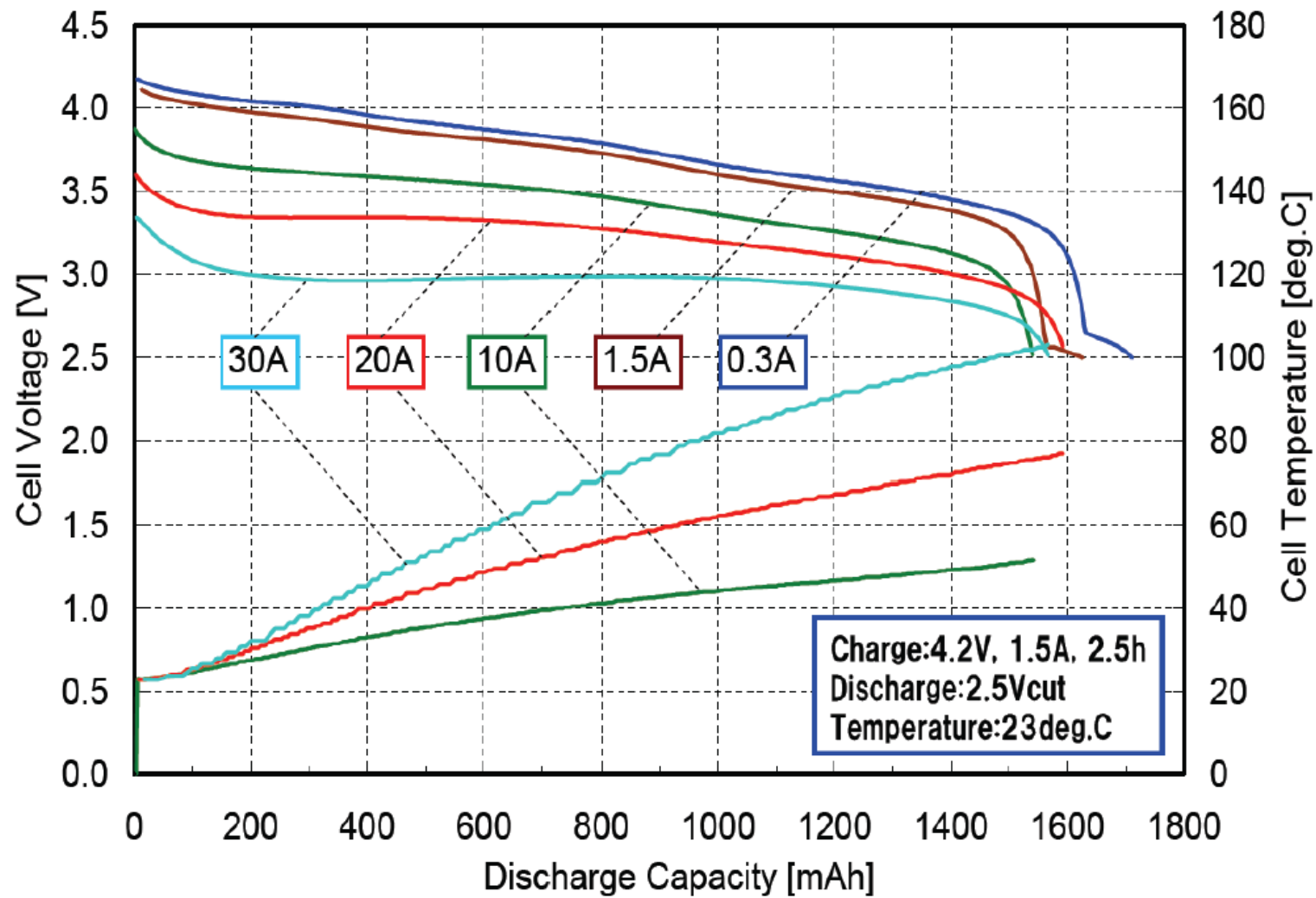
Charge Characteristics (US18650VTC2)



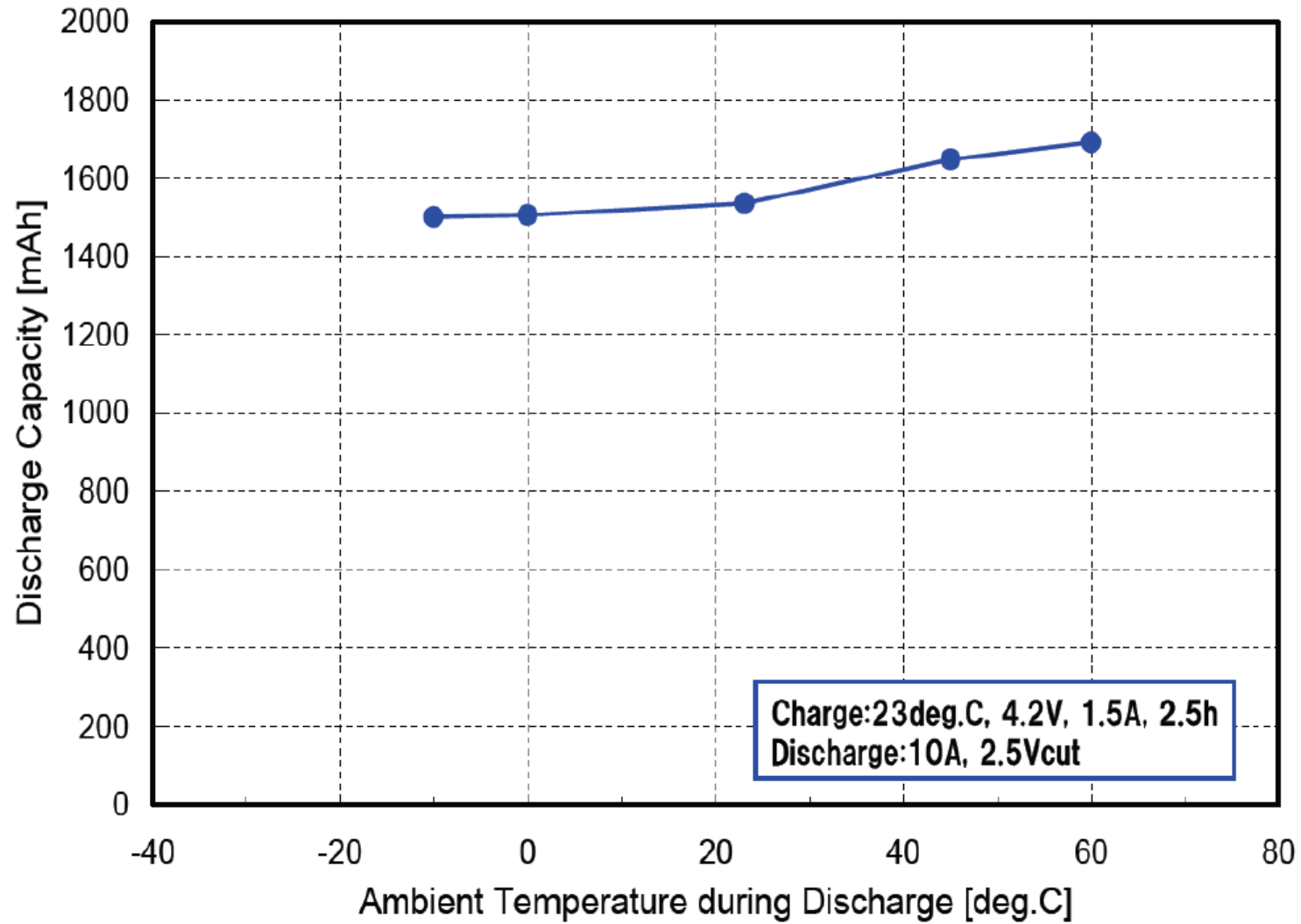
Discharge Load Characteristics (US18650VTC2)



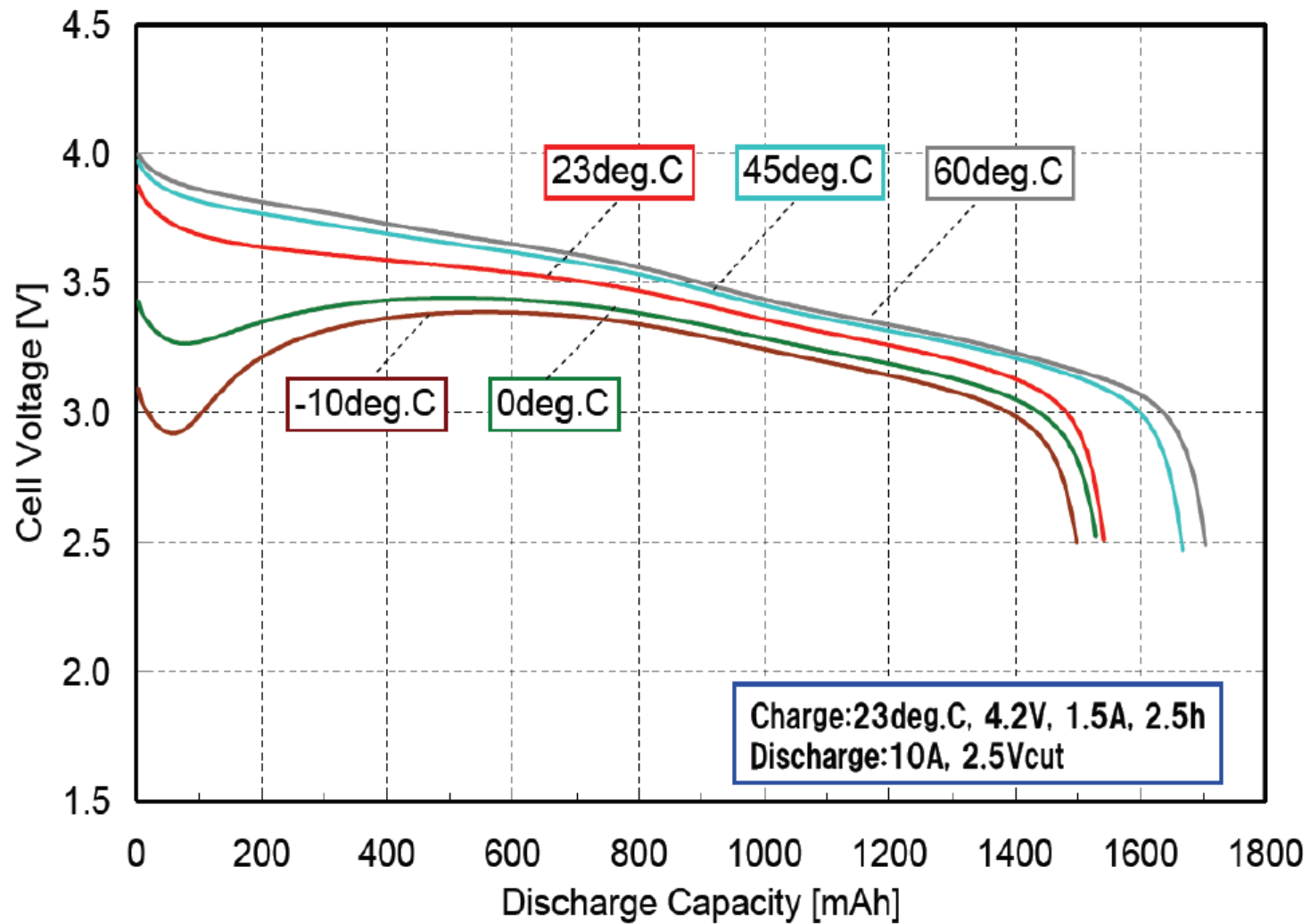
Discharge Load Characteristics (US18650VTC2)



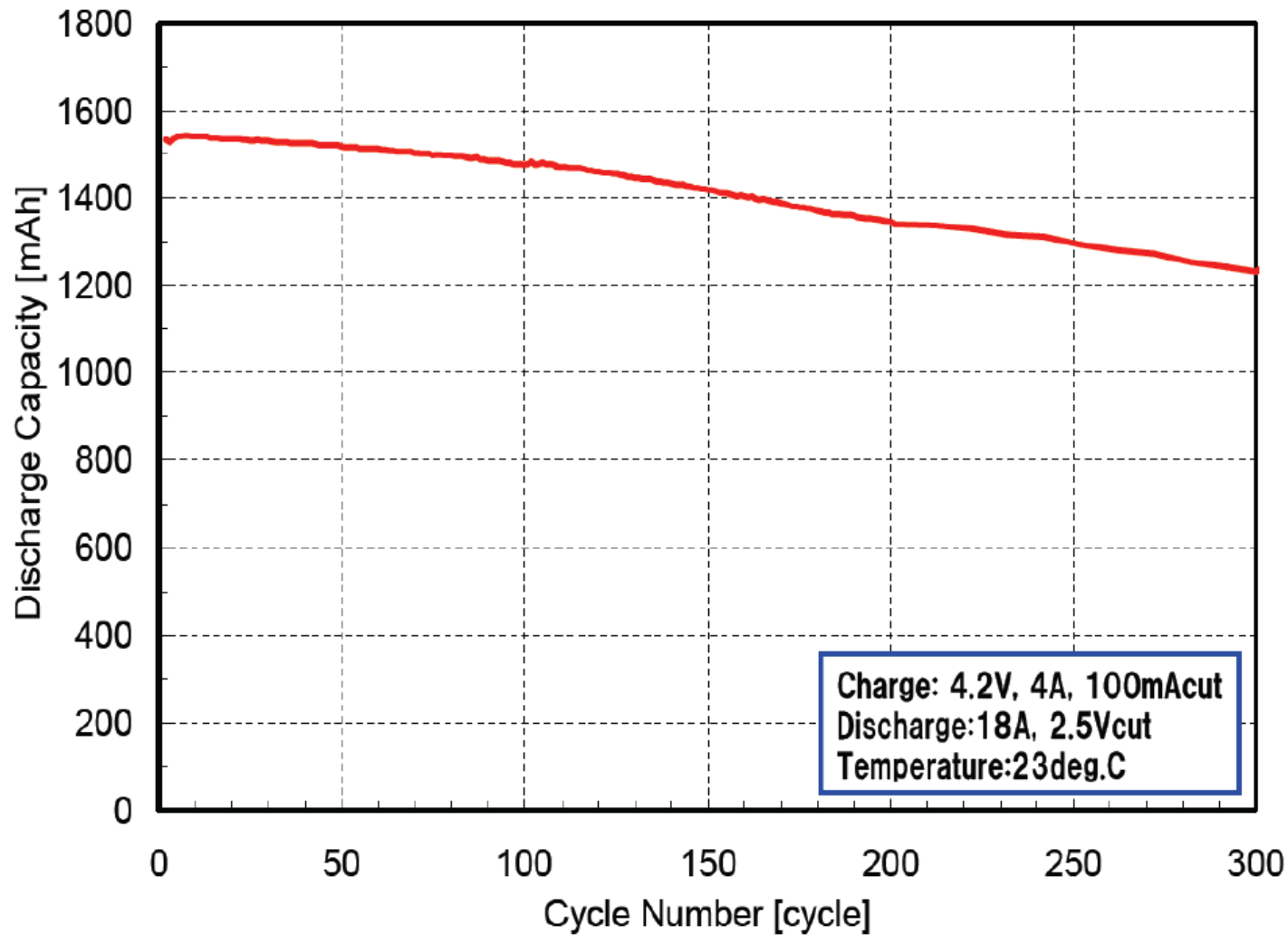
Temperature Dependence of Discharge Capacity (US18650VTC2)



Temperature Dependence of Discharge Curves (US18650VTC2)



Cycle Life Performance (US18650VTC2)



Dimension with Plastic Tube: US18650VTC2

