

Lithium Ion Rechargeable Battery

Technical Information

Revision1.1
24th June 2011

Model Number	US18650VT3
Cell Type	Cylindrical
Cell Name	US18650VT3
Sony Code	49914830

Sony Energy Devices Corporation
Device Solutions Business Group / Sony Corporation

1. General

1.1 Name and Code

1.1.1 Model Number : US18650VT3

1.1.2 Cell Name : US18650VT3

1.1.3 Sony Code : 49914830

1.2 Cell Shape and Weight

1.2.1 Cell Shape : Cylindrical

1.2.2 Size (with plastic tube) : Diameter 18.35mm max
Length 65.10mm max

1.2.3 Weight : 45.0g Average

1.3 Safety Regulation

Sony acquired UL1642.

2. Performance

at room temperature, 2.5V cut off

Nominal Capacity (0.2C discharge)	1600mAh 5.92Wh	average capacity 3.70V (average discharge voltage)
Rated Capacity (0.2C discharge)	1500mAh 5.55Wh	minimum capacity
Capacity at 1C	1425mAh 5.27Wh	average capacity
Capacity at 10A	1350mAh 5.00Wh	average capacity
Nominal Voltage	3.7V	
Internal Impedance	20mΩ Typ.	measured by AC1kHz
Cycle Performance	60 % Min. of Initial capacity at 500 cycles	10A discharge

* Standard Charge Condition

Charge Method : constant current constant voltage

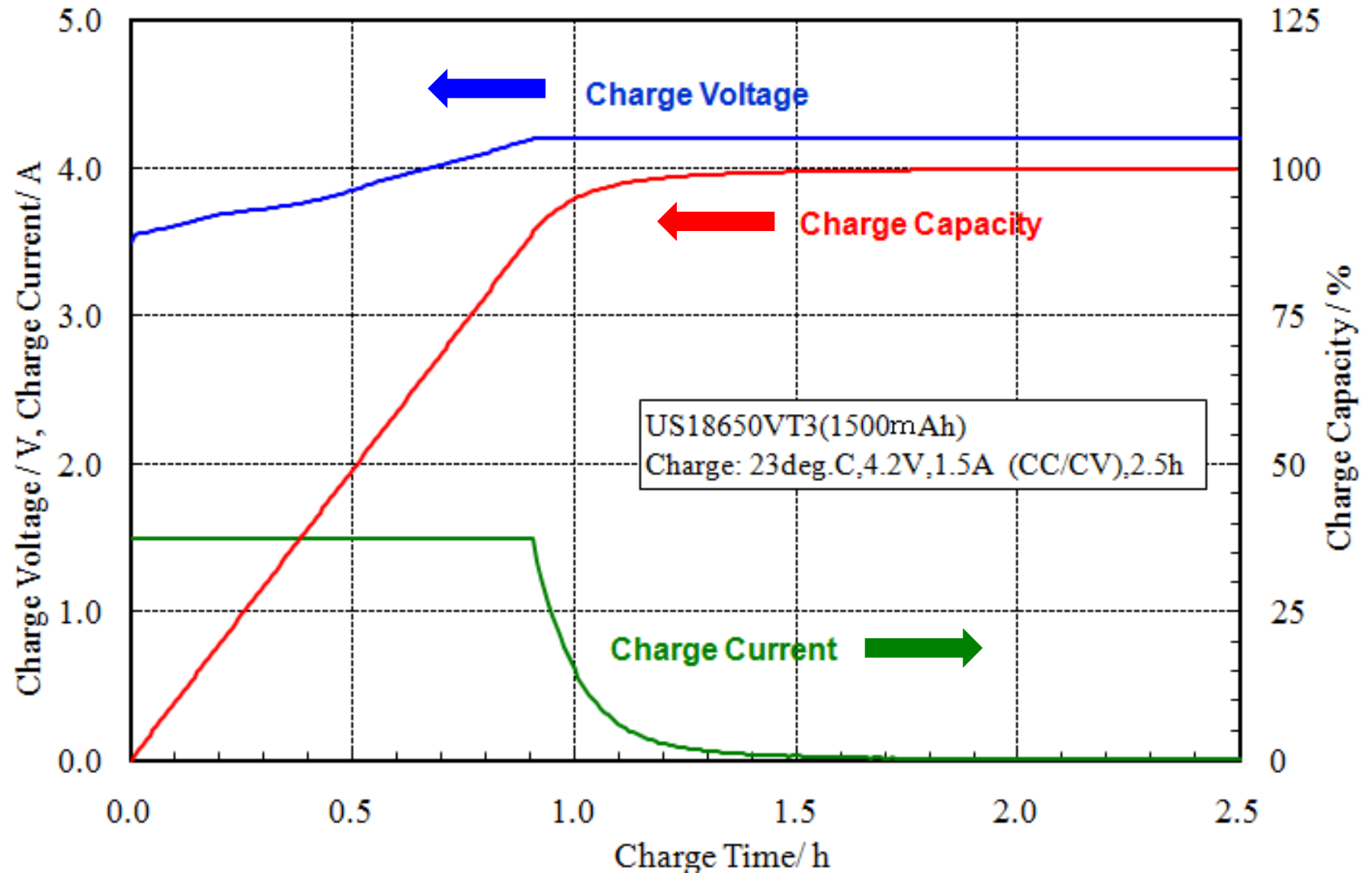
Charge Up Voltage : 4.2 ± 0.05V

Charge Current : 1.5A

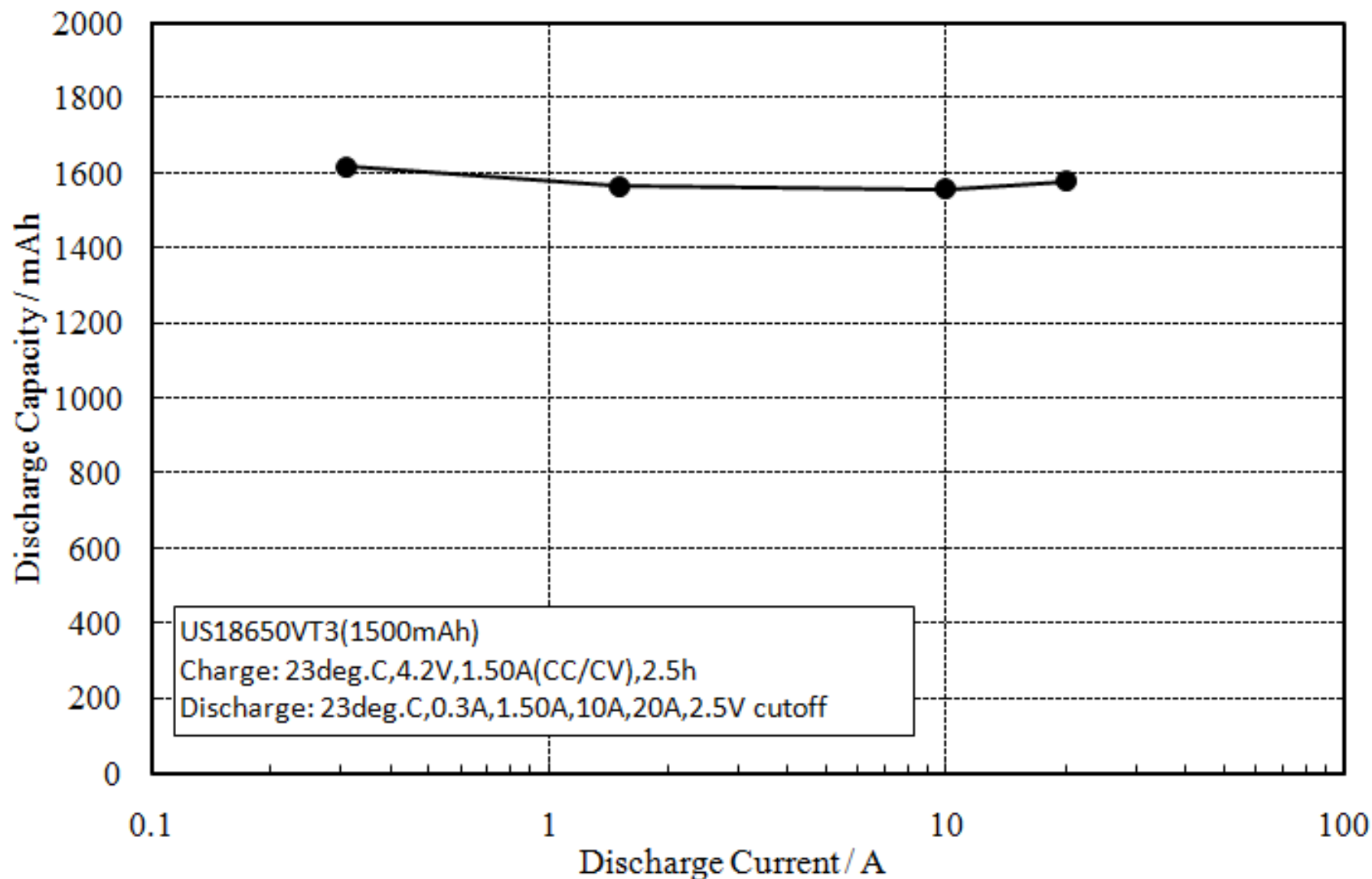
Charge Time : 2.5h

Ambiance Temperature : 23°C

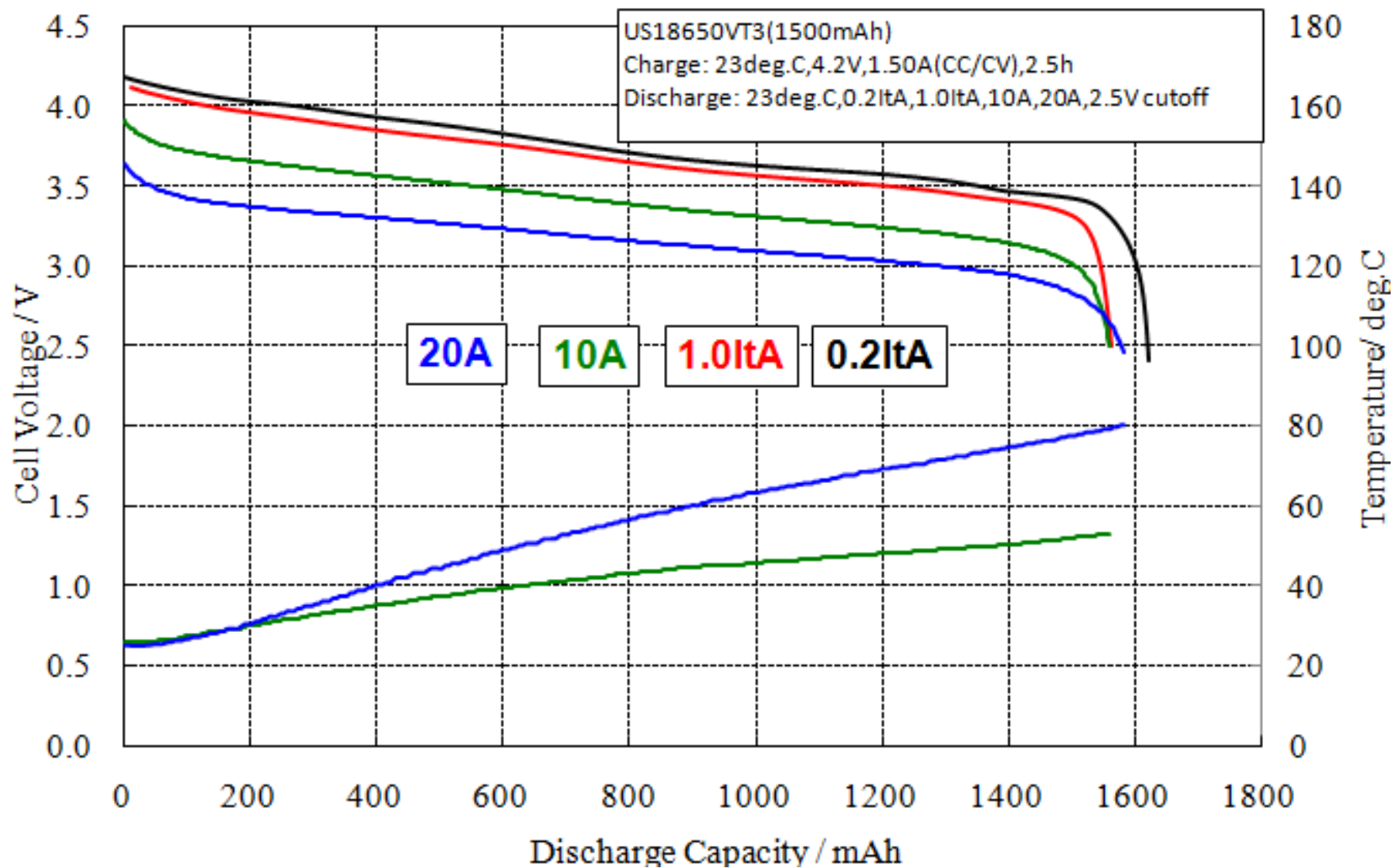
Charge Characteristics (US18650VT3)



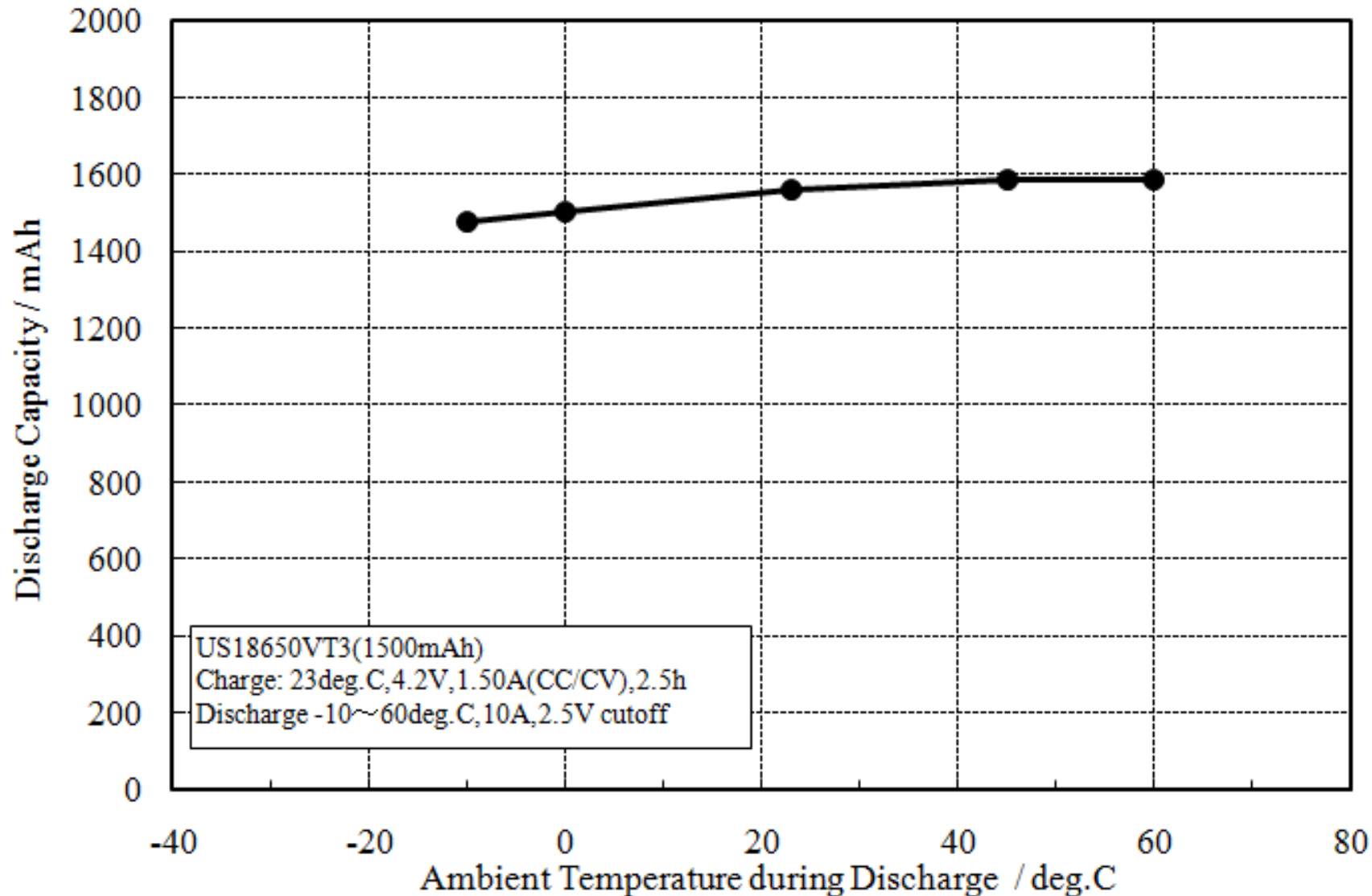
Discharge Load Characteristics (US18650VT3)



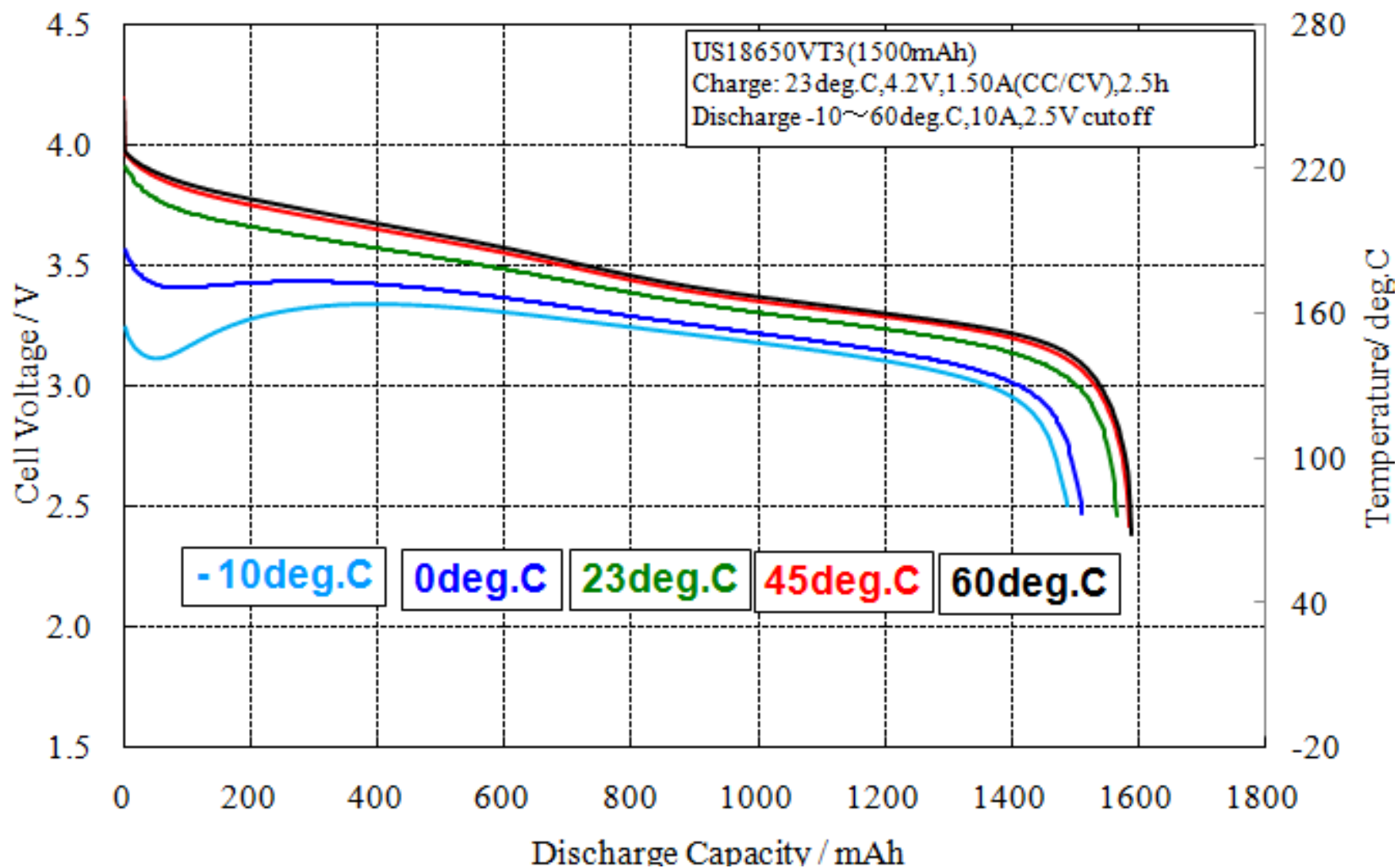
Discharge Load Characteristics (US18650VT3)



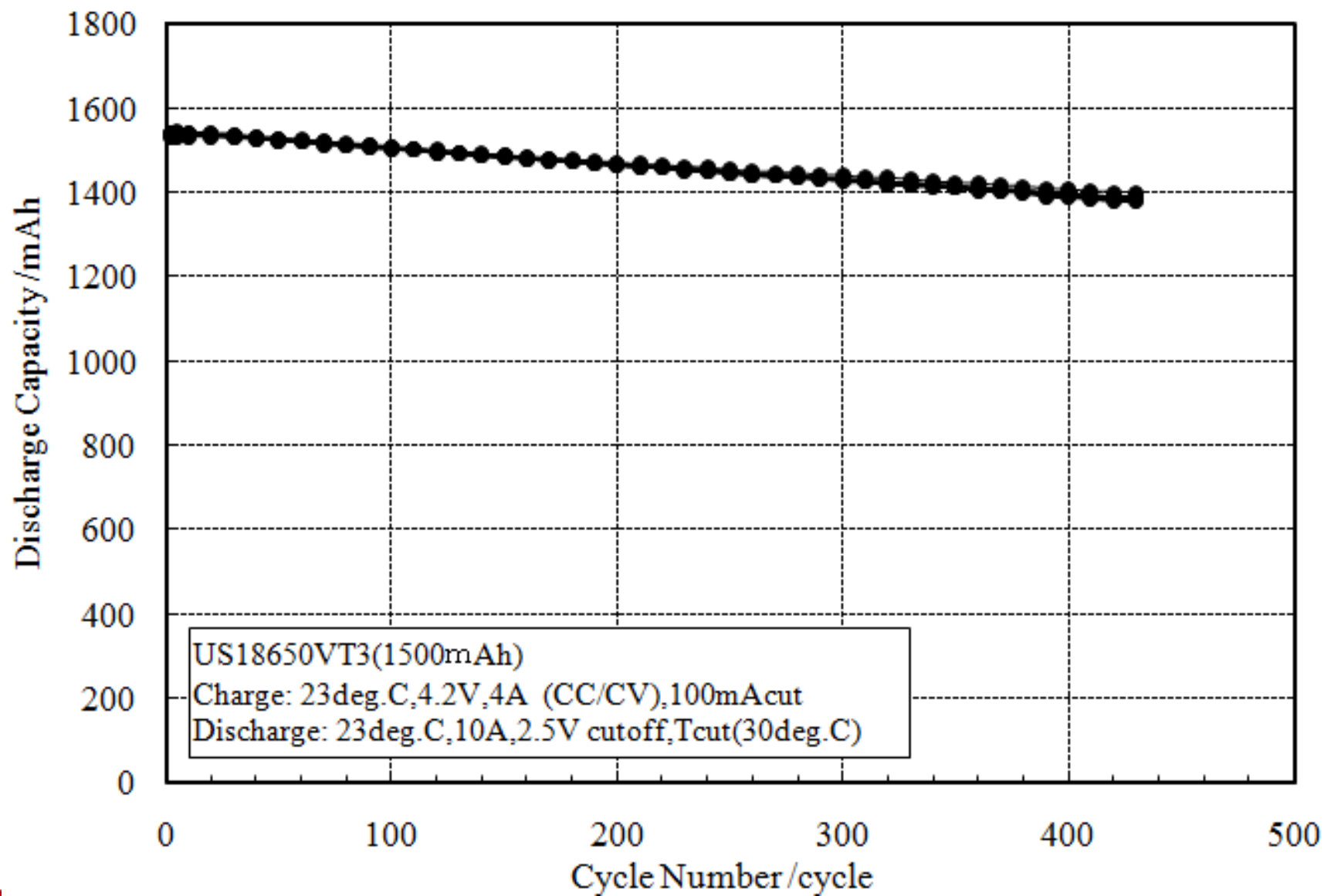
Temperature Dependence of Discharge Capacity (US18650VT3)



Temperature Dependence of Discharge Curves (US18650VT3)



Cycle Life Performance (US18650VT3)



Dimension with Plastic Tube: US18650VT3

