

Lithium Ion Rechargeable Battery Technical Information

Revision1.0
19th September 2011

Model Number	US18650VTC3
Cell Type	Cylindrical
Cell Name	US18650VTC3
Sony Code	49914820

Sony Energy Devices Corporation
Device Solutions Business Group / Sony Corporation

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1. General

1.1 Name and Code

1.1.1 Model Number : US18650VTC3
1.1.2 Cell Name : US18650VTC3
1.1.3 Sony Code : 49914820

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

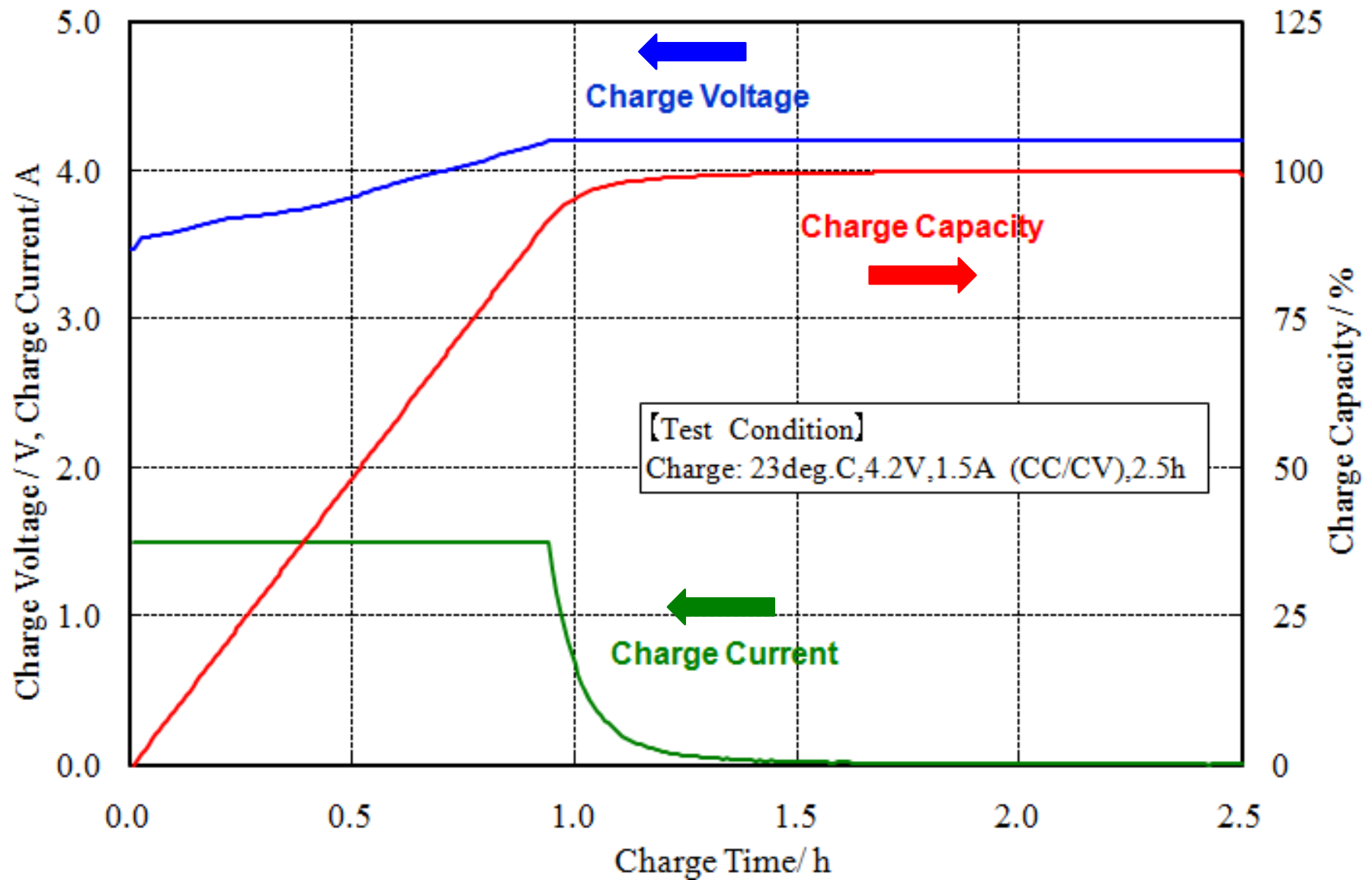
at room temperature, 2.5V cut off

Nominal Capacity (0.2C discharge)	1600mAh 5.92Wh	average capacity 3.70V (average discharge voltage)
Rated Capacity (0.2C discharge)	1500mAh 5.58Wh	minimum capacity
Capacity at 1C	1538mAh 5.67Wh	average capacity
Capacity at 10A	1517mAh 5.25Wh	average capacity
Nominal Voltage	3.7V	
Internal Impedance	12mΩ Typ.	measured by AC1kHz
Cycle Performance	60% Min. of Initial capacity at 500 cycles	10A discharge

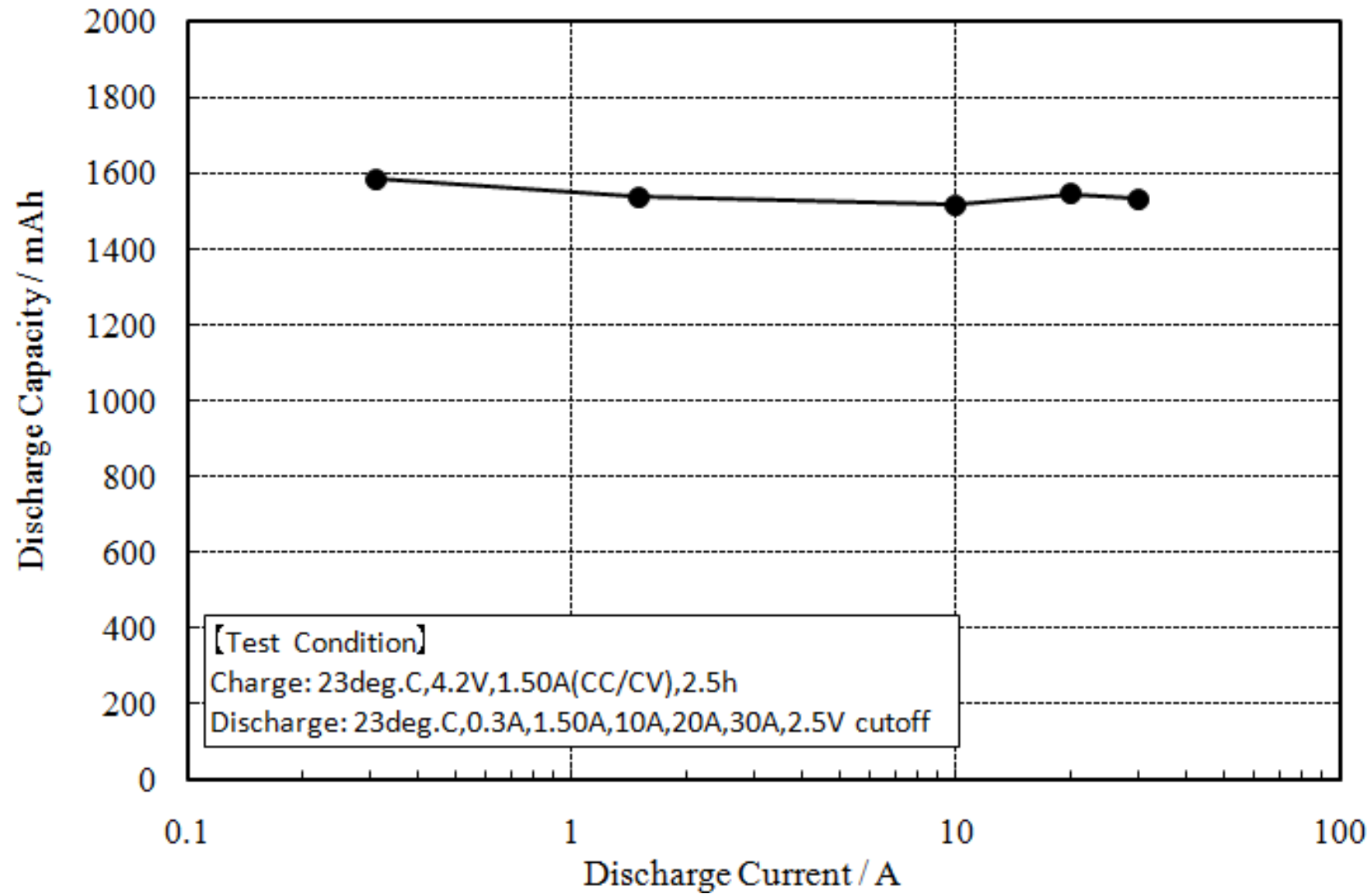
* Standard Charge Condition

Charge Method : constant current constant voltage
Charge Up Voltage : 4.2± 0.05V
Charge Current : 1.5A
Charge Time : 2.5h
Ambient Temperature : 23°C

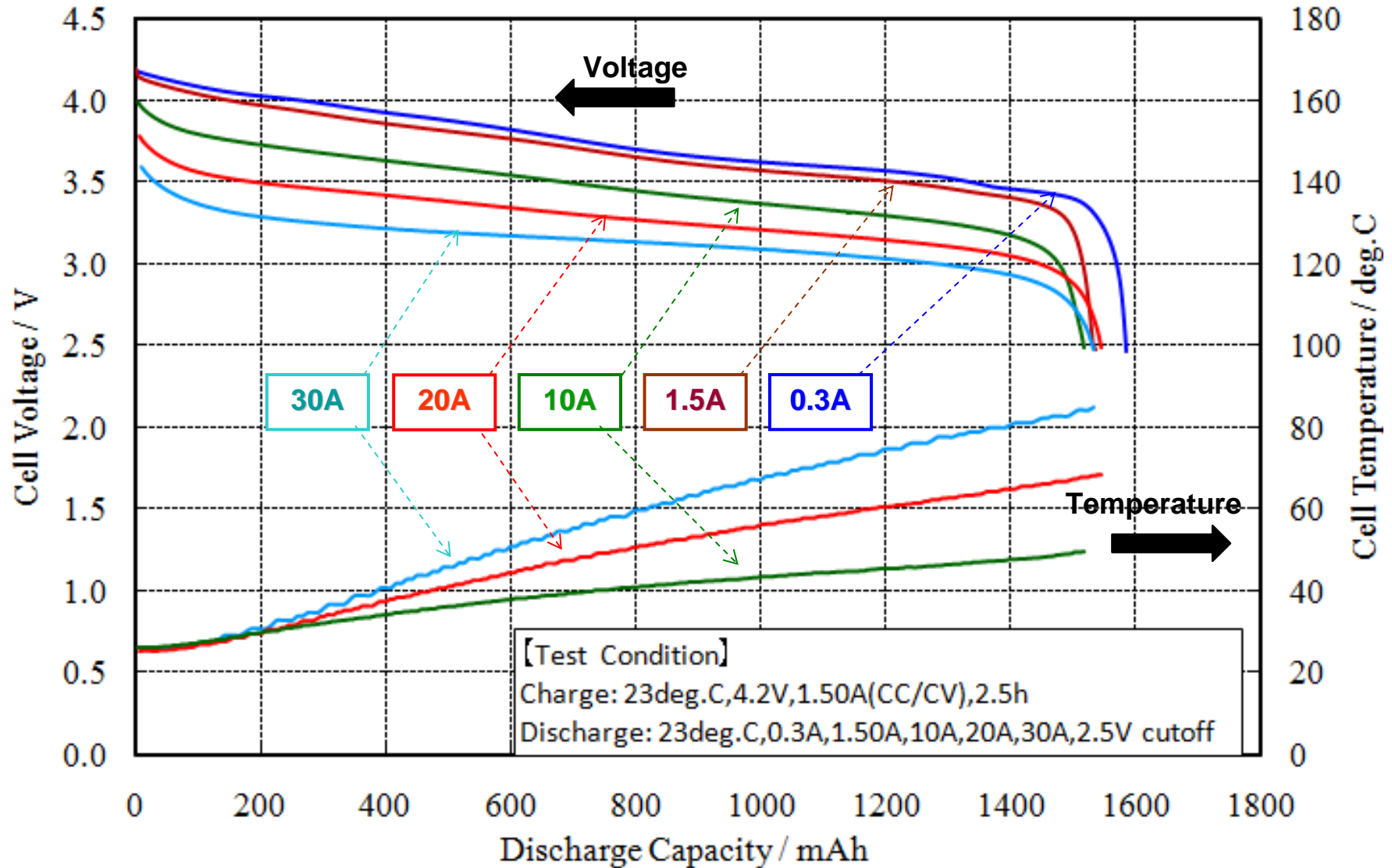
Charge Characteristics (US18650VTC3)



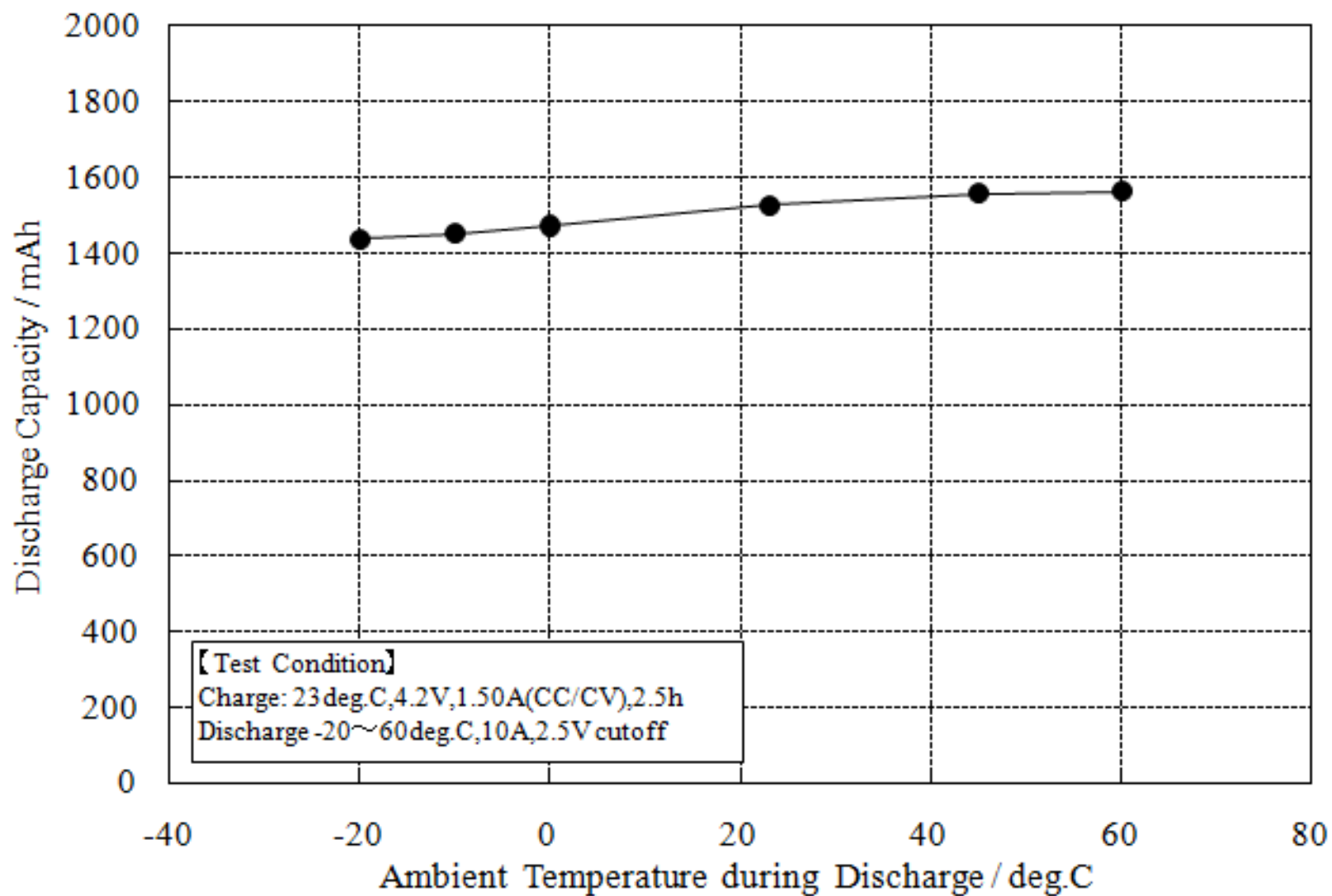
Discharge Load Characteristics (US18650VTC3)



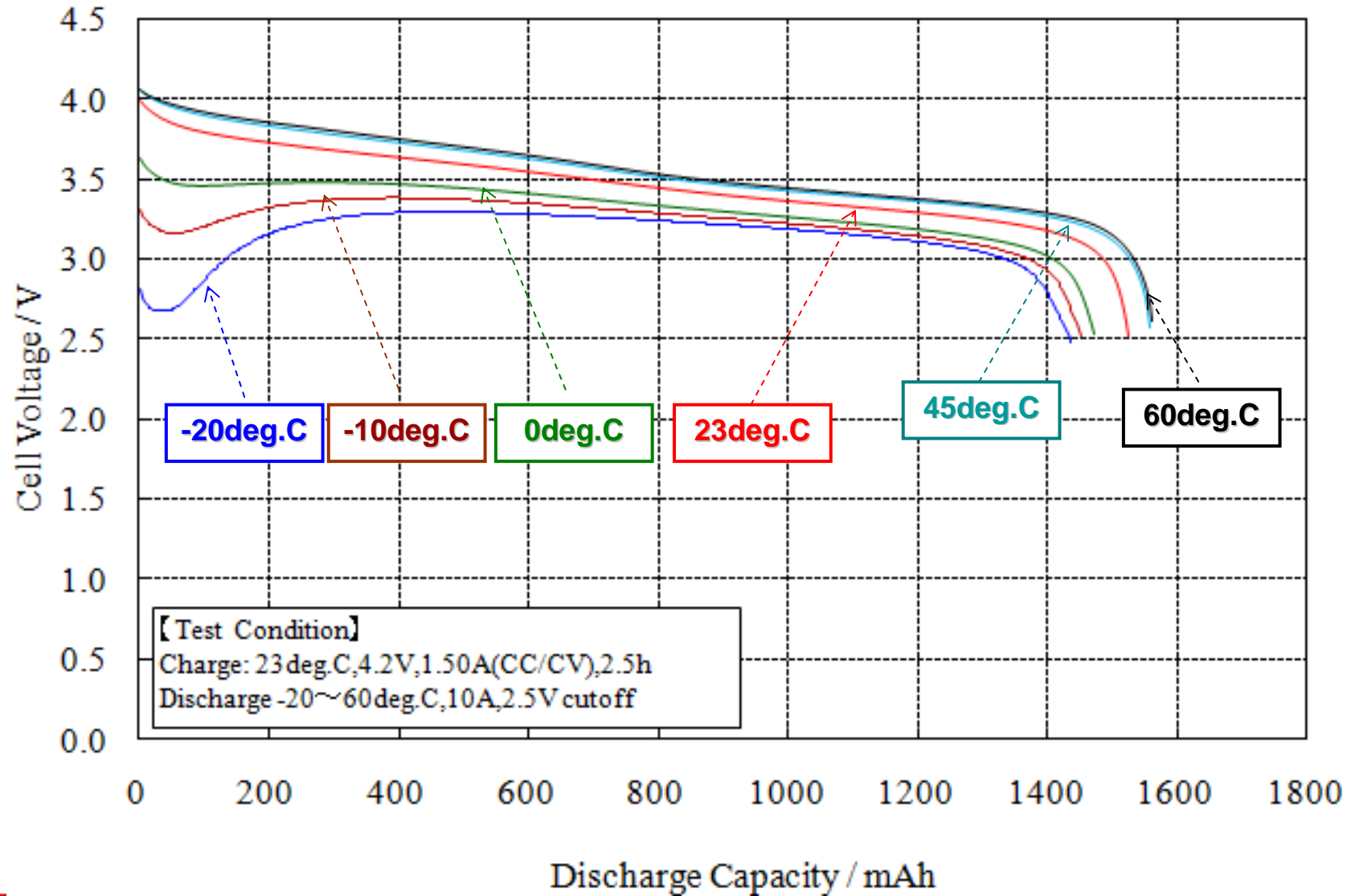
Discharge Load Characteristics (US18650VTC3)



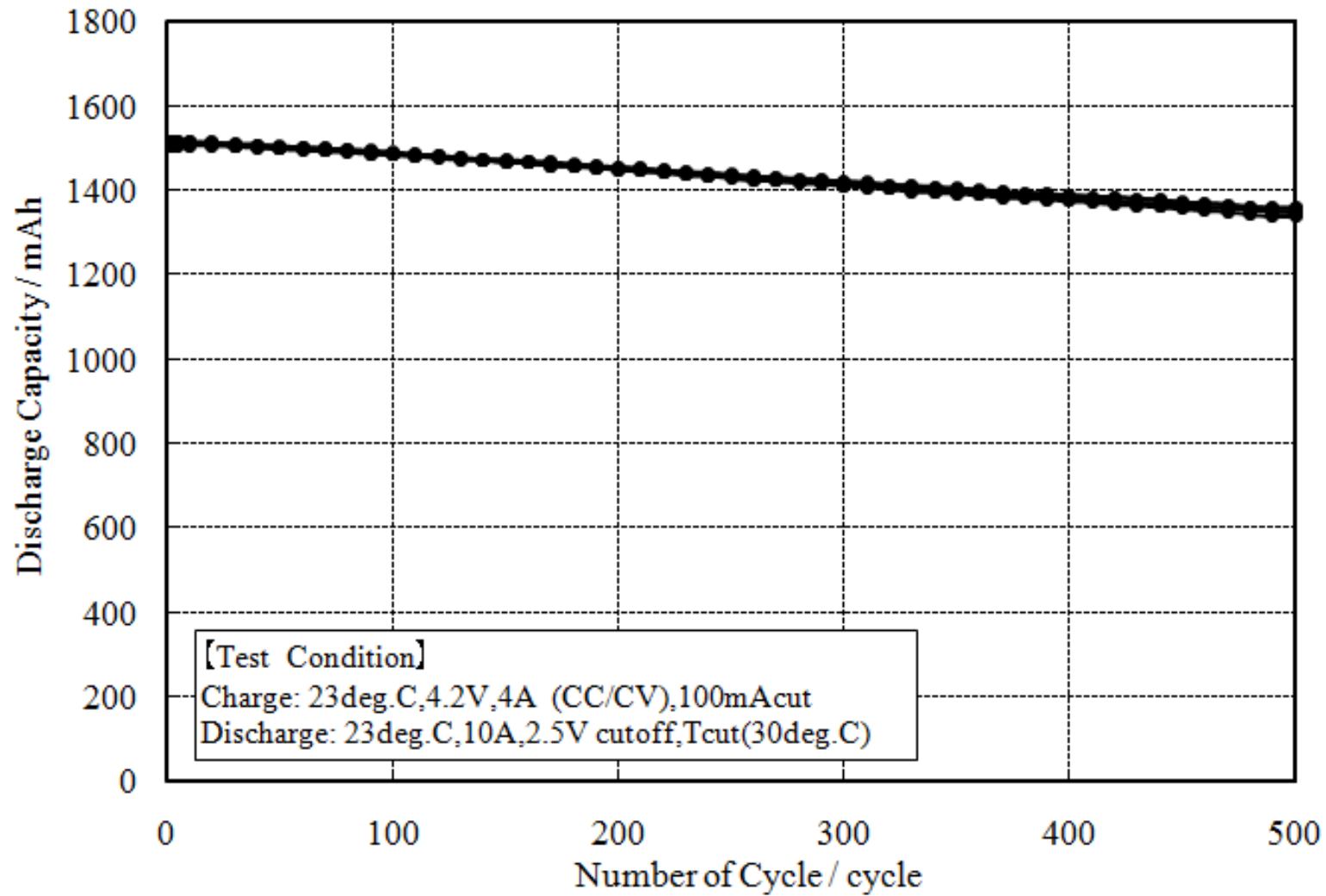
Temperature Dependence of Discharge Capacity (US18650VTC3)



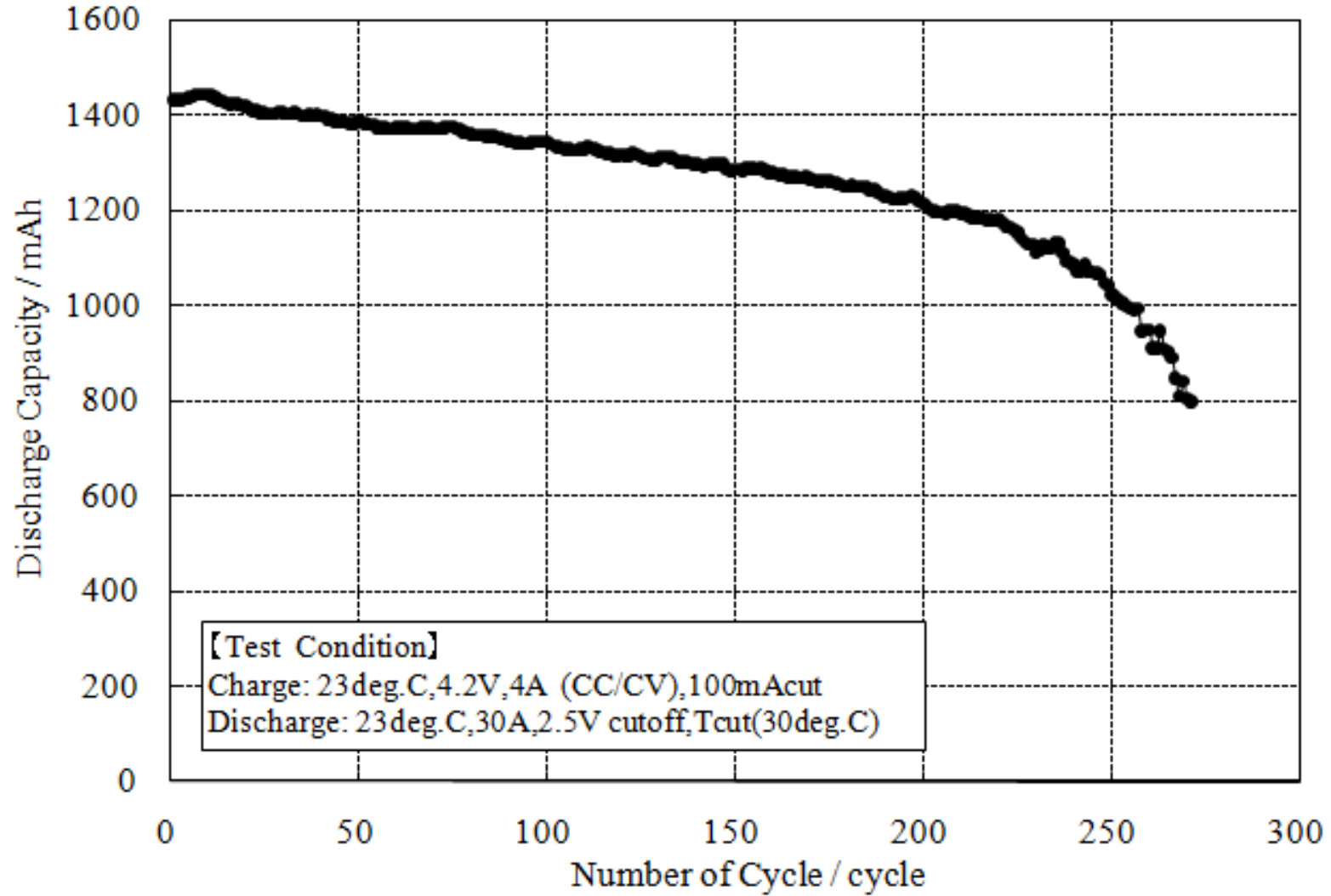
Temperature Dependence of Discharge Curves (US18650VTC3)



Cycle Life Performance (US18650VTC3) 10A discharge



Cycle Life Performance (US18650VTC3) 30A discharge



Dimension with Plastic Tube: US18650VTC3

