

Lithium Ion Rechargeable Battery Technical Information

**Revision 0.1
20th Jan. 2015**

Model Number	US18650VTC6
Cell Type	Cylindrical
Cell Name	US18650VTC6

**Sony Energy Devices Corporation
Device Solutions Business Group / Sony
Corporation**

1. General

1.1 Name and Code

1.1.1 Model Number : US18650VTC6

1.1.2 Cell Name : US18650VTC6

1.1.3 Sony Code : TBD

1.2 Cell Shape and Weight

1.2.1 Cell Shape : Cylindrical

**1.2.2 Size (with plastic tube) : Diameter
18.50mm max Length 65.20mm max**

1.2.3 Weight : 46.5g Average

1.3 Safety Regulation

Sony will acquire UL1642.

2. Performance

Nominal Capacity at 0.2C	3130mAh 11.3Wh	discharge 2.0V cut off at 23°C
Rated Capacity at 0.2C	3000mAh 10.8Wh	discharge 2.0V cut off at 23°C
Capacity at 1C	3007mAh 10.8Wh	discharge 2.5V cut off at 23°C
Capacity at 10A	2940mAh 10.5Wh	discharge 2.5V cut off at 23°C
Nominal Voltage	3.6V	
Internal Impedance	12.8mΩ Typ.	measured by AC1kHz
Cycle Performance	60% Min. of Initial capacity at 500 cycles	7.5,15A discharge

*** Standard Charge Condition**

Charge Method : constant current constant voltage

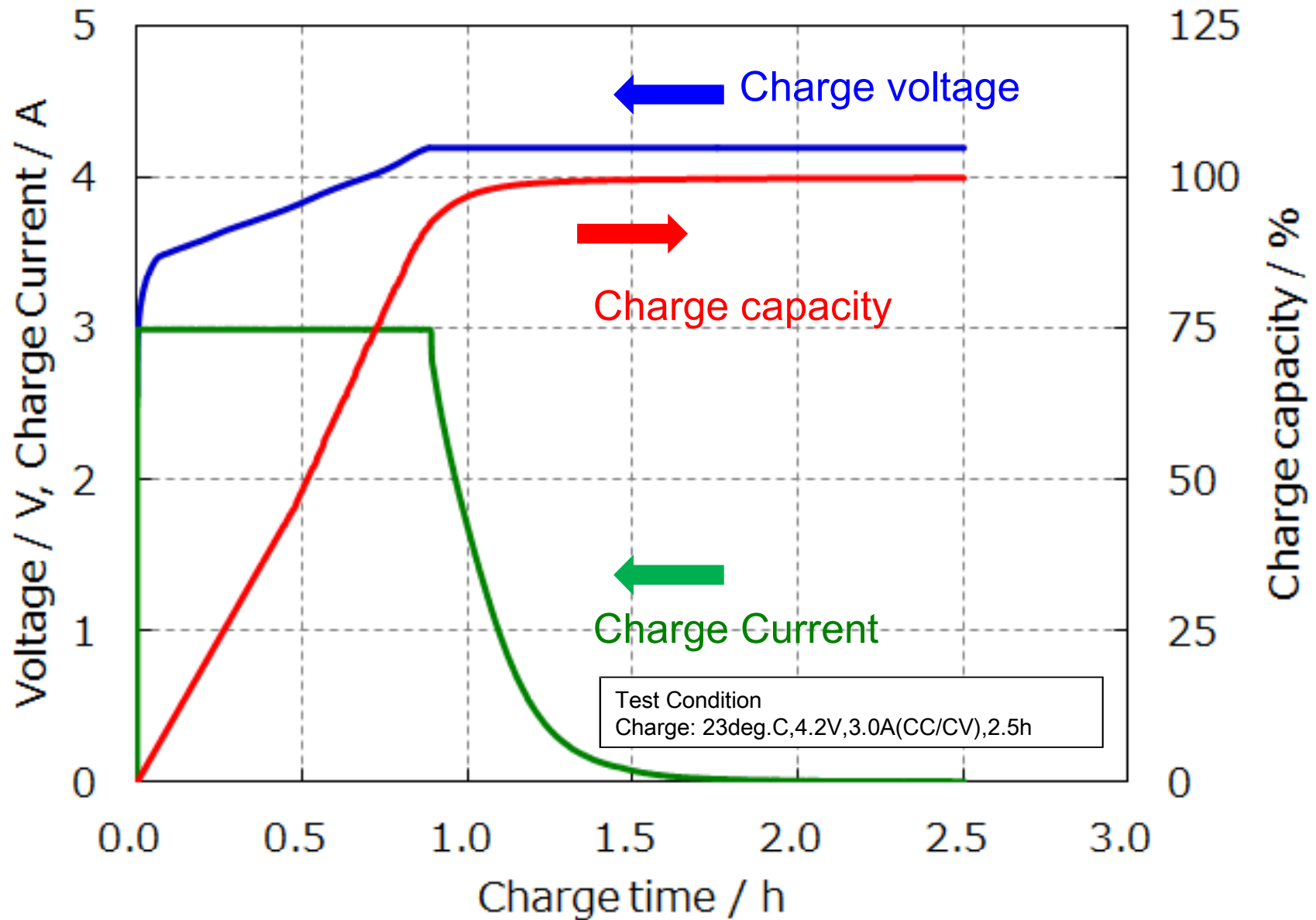
Charge Up Voltage : 4.2 ± 0.05V

Charge Current : 3.0A

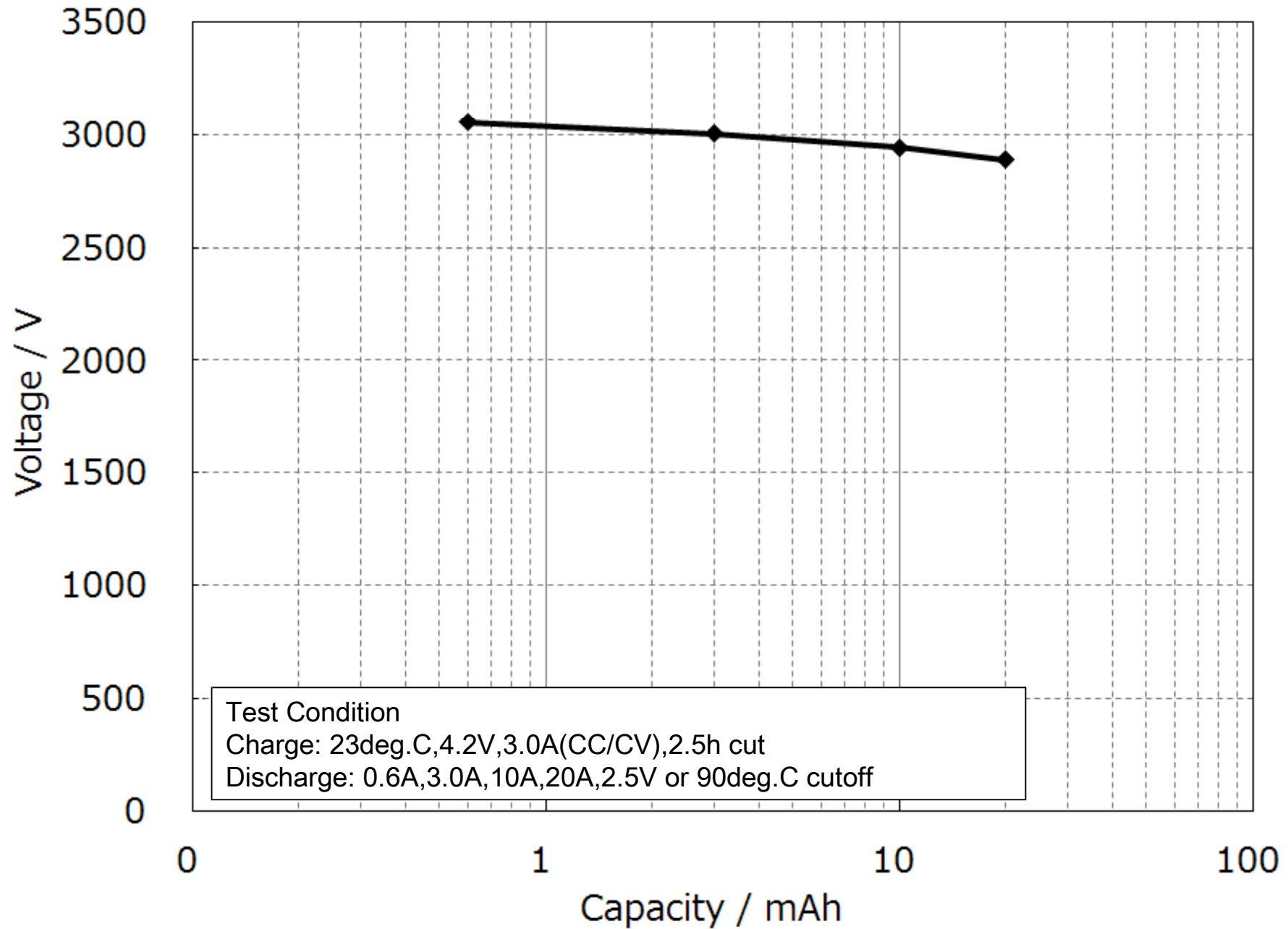
Charge Time : 2.5h

Ambient Temperature: 23°C

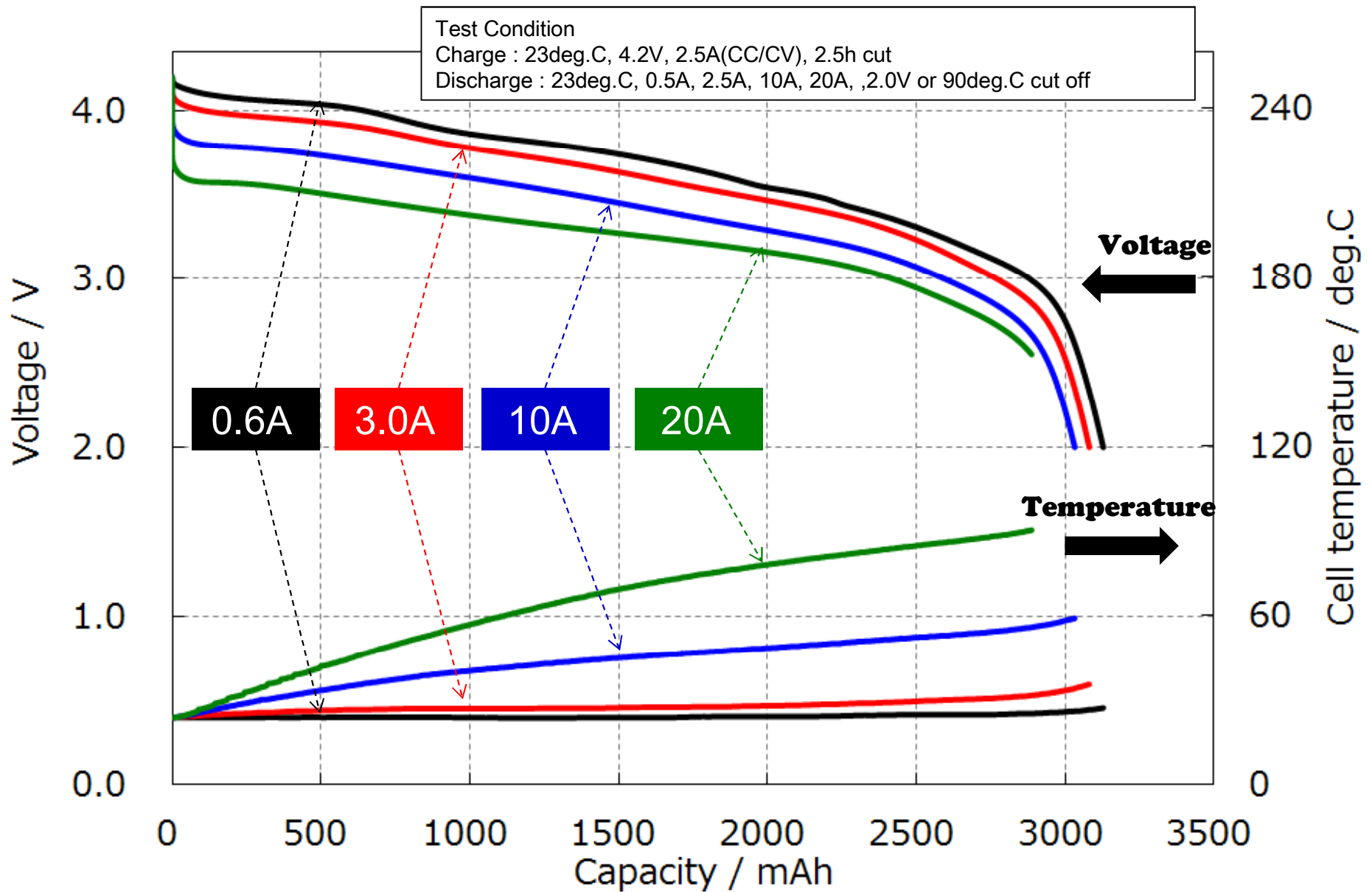
Charge Characteristics (US18650VTC6)



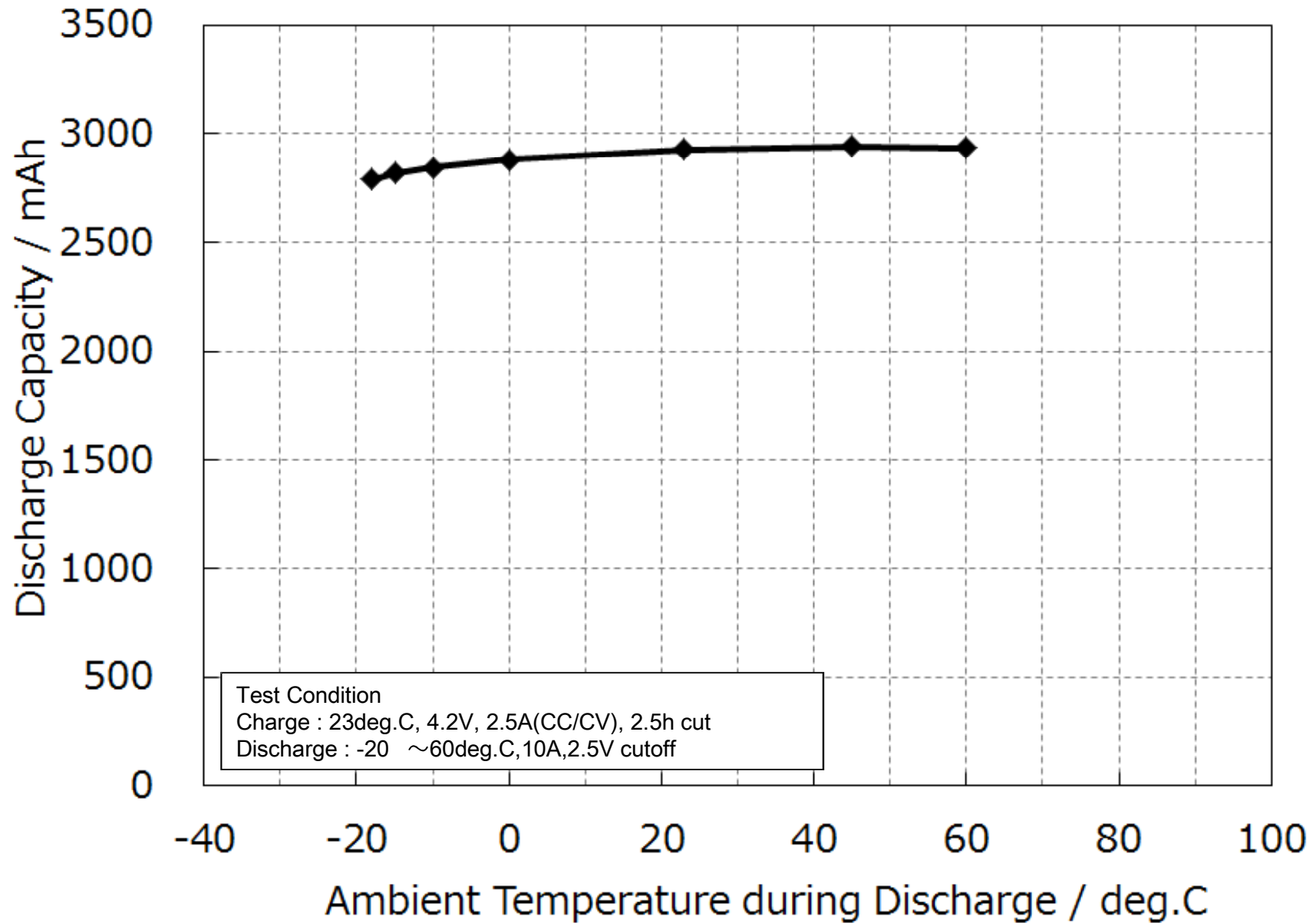
Discharge Load Characteristics (US18650VTC6)



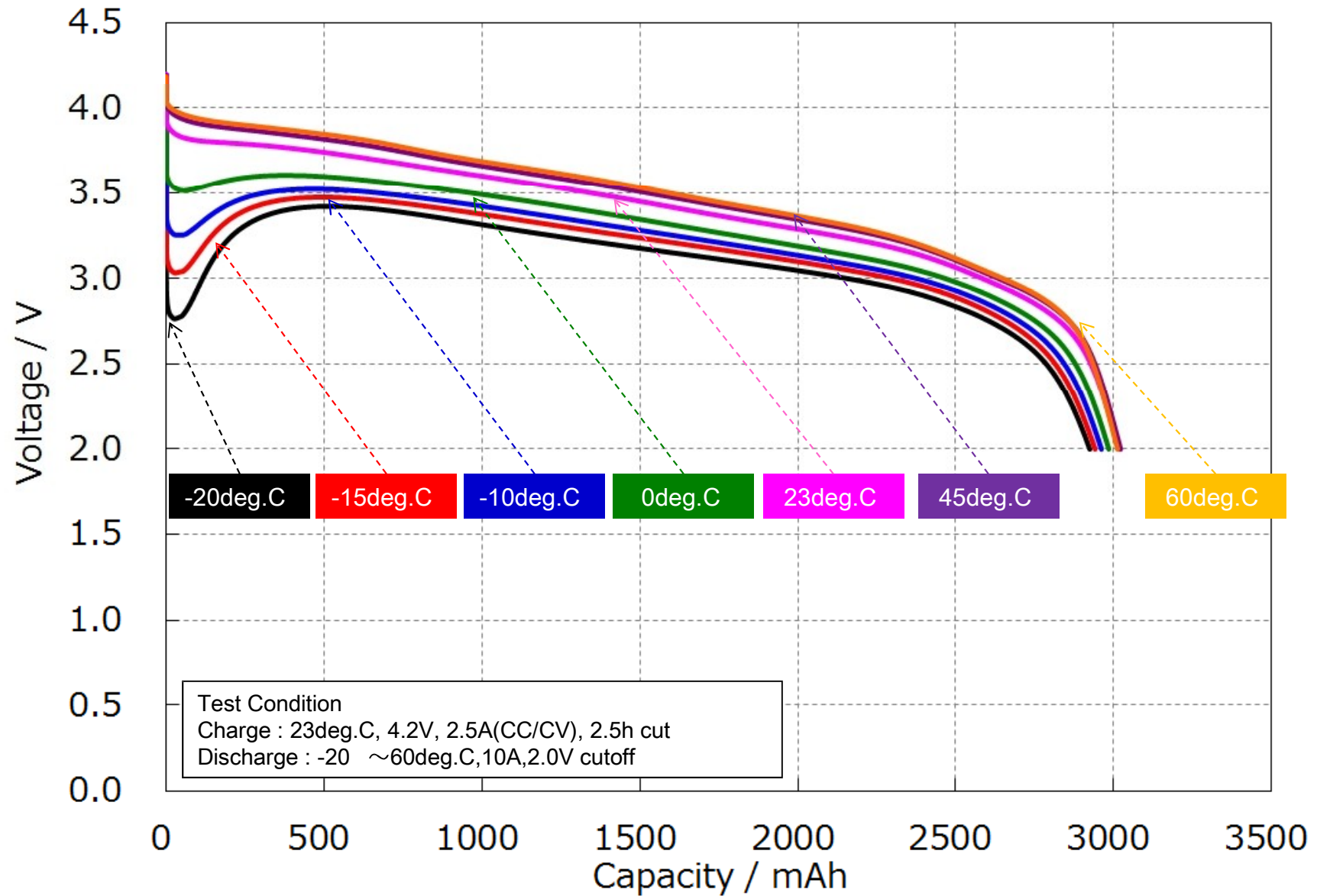
Discharge Load Characteristics (US18650VTC6)



Temperature Dependence of Discharge Capacity (US18650VTC6)

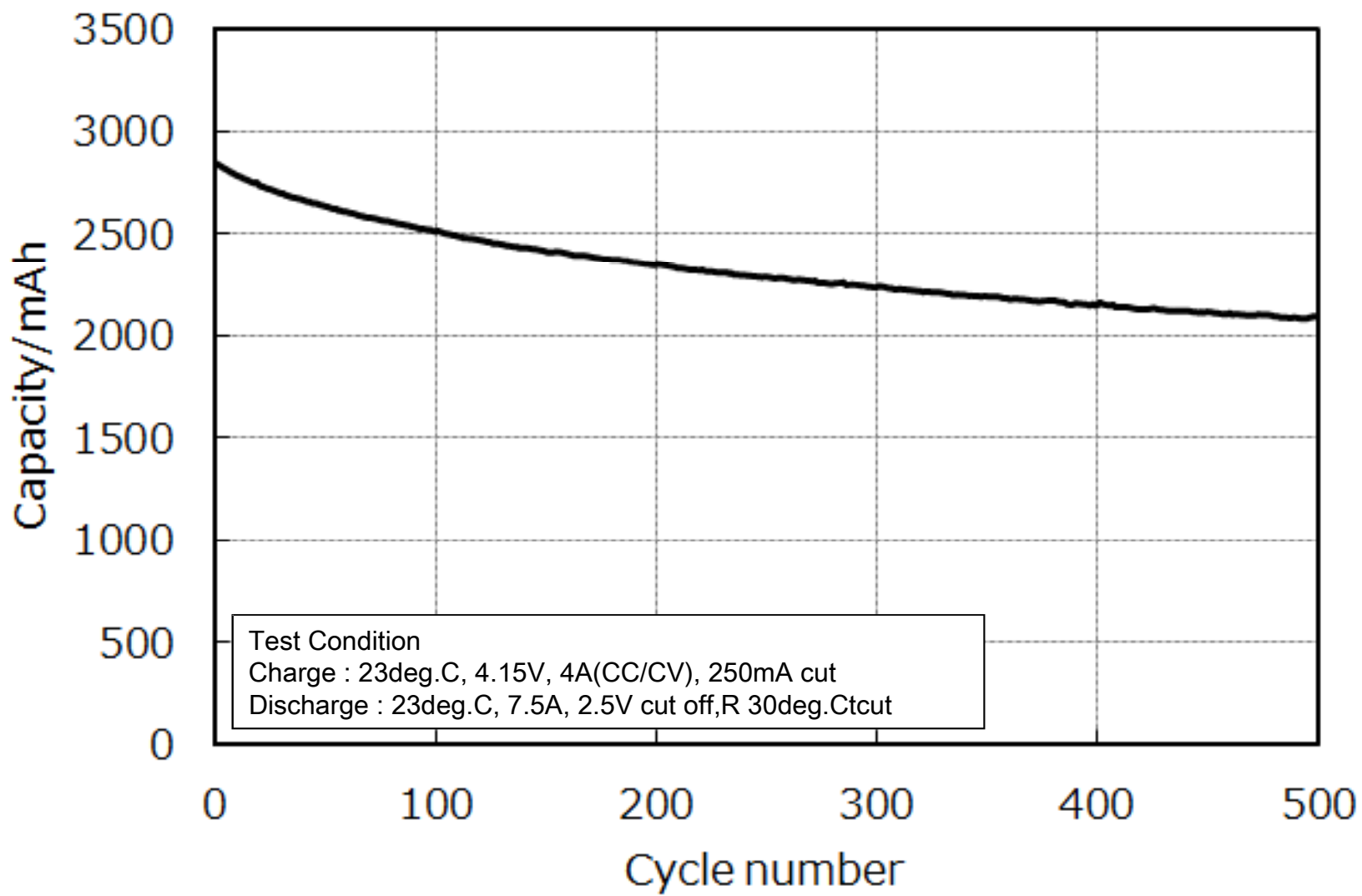


Temperature Dependence of Discharge Curves (US18650VTC6)

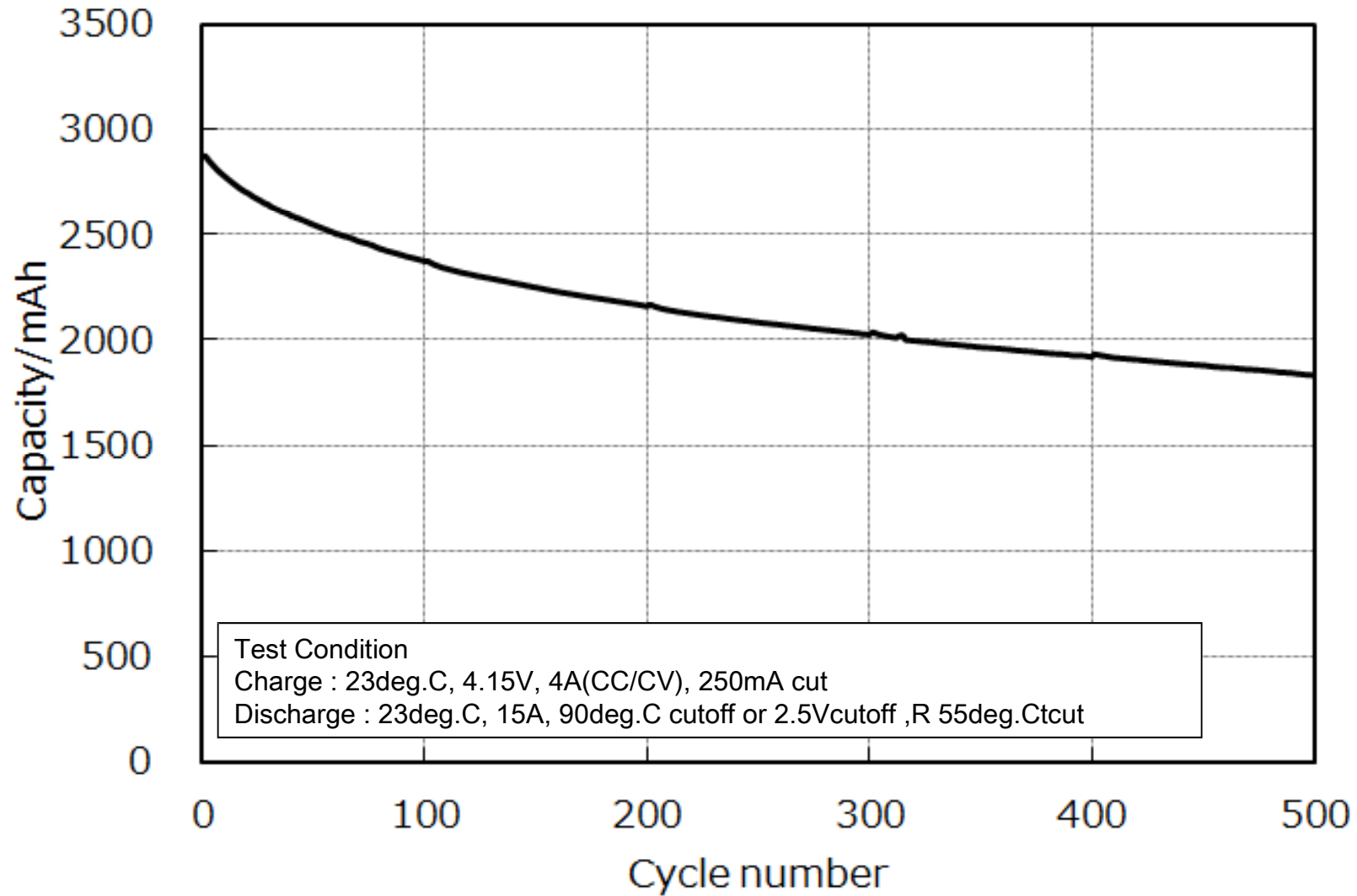


Cycle Life Performance (US18650VTC6)

7.5A discharge



Cycle Life Performance (US18650VTC6) 15A discharge



Dimension with Plastic Tube: US18650VTC6

