

# **Lithium Ion Rechargeable Battery Technical Information**

**Revision 0.1  
20<sup>th</sup> Jan. 2015**

<b>Model Number</b>	<b>US18650VTC6</b>
<b>Cell Type</b>	<b>Cylindrical</b>
<b>Cell Name</b>	<b>US18650VTC6</b>

**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.

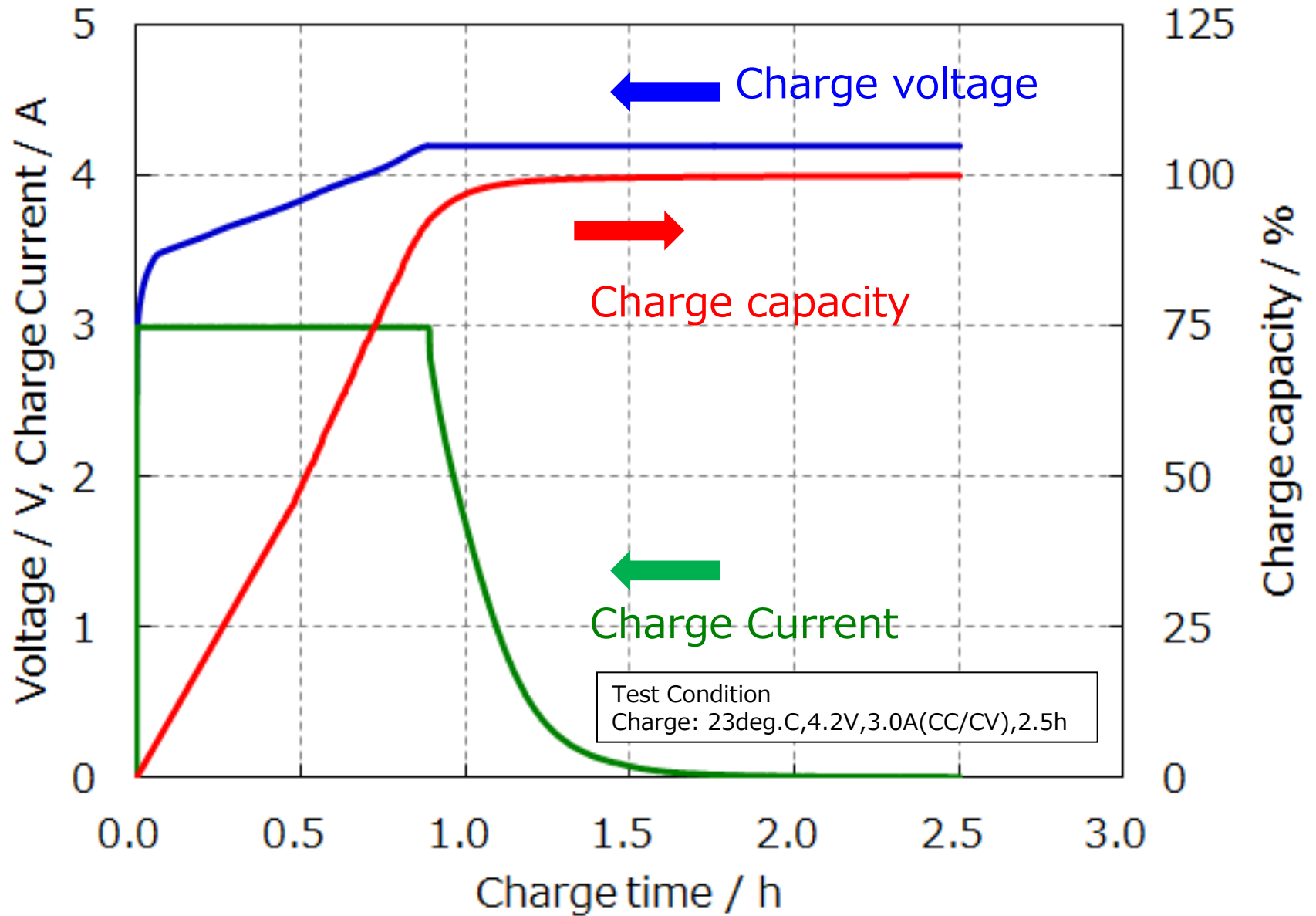
## 2. Performance

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

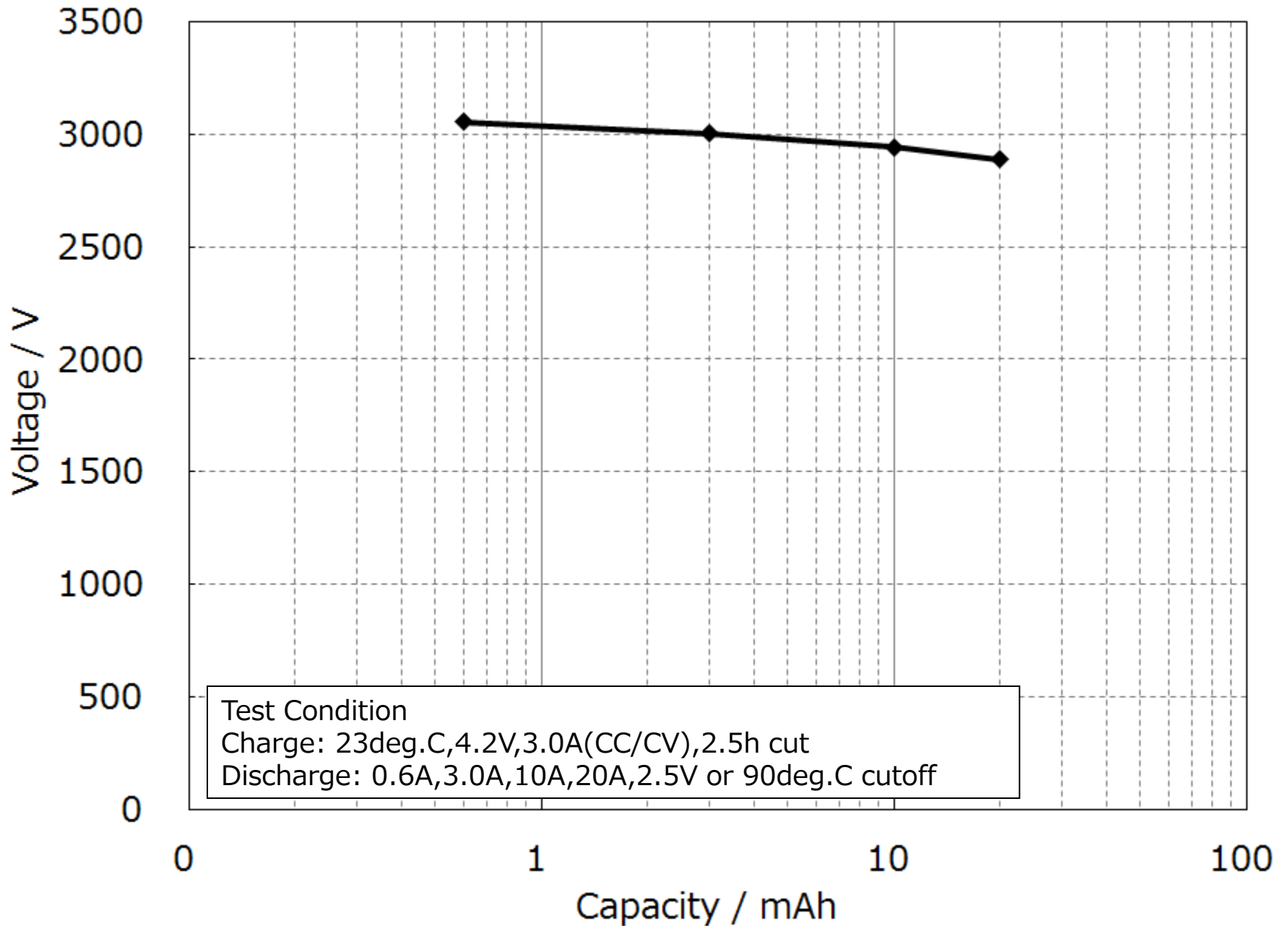
### \* Standard Charge Condition

**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

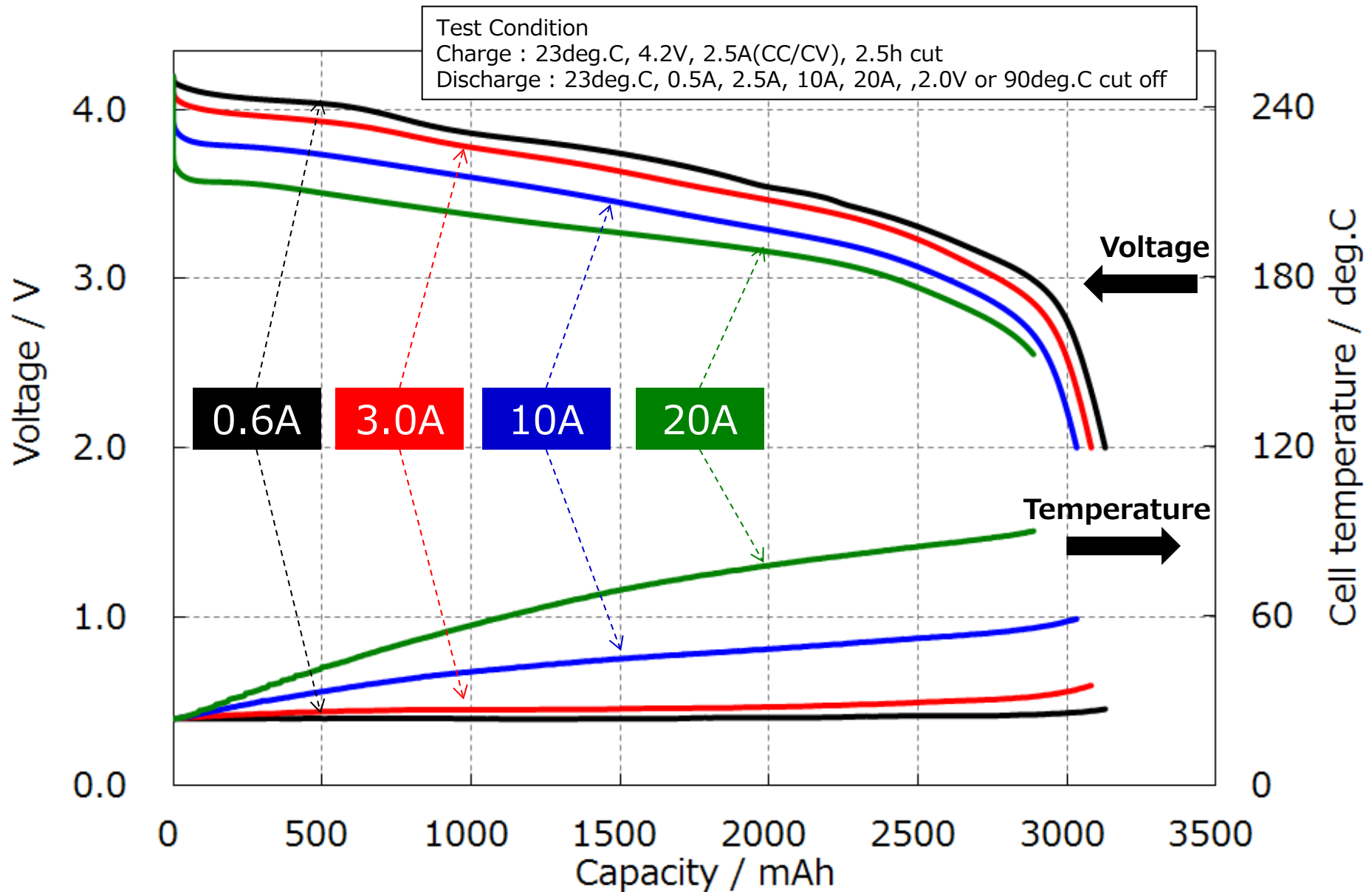
# Charge Characteristics (US18650VTC6)



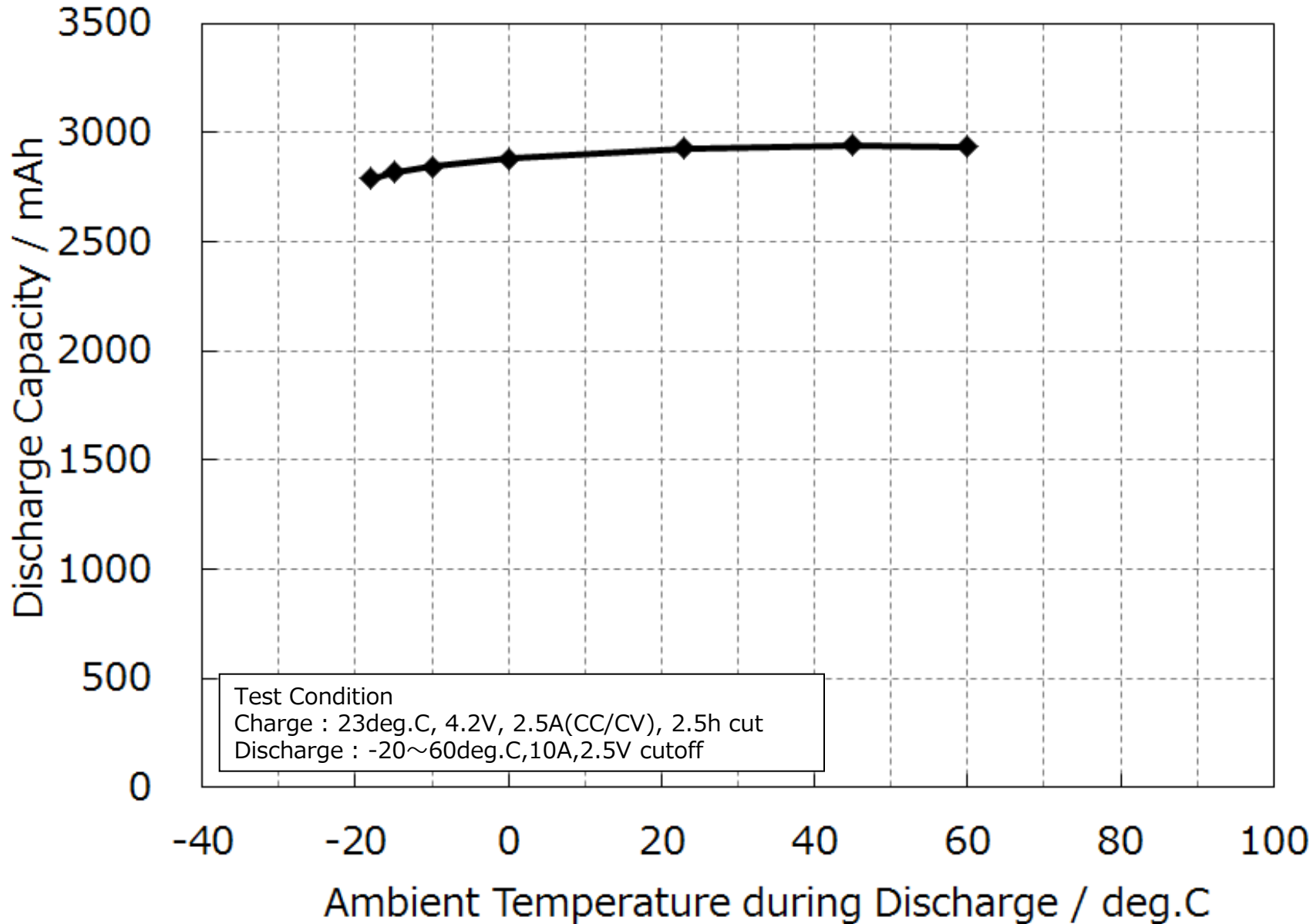
# Discharge Load Characteristics (US18650VTC6)



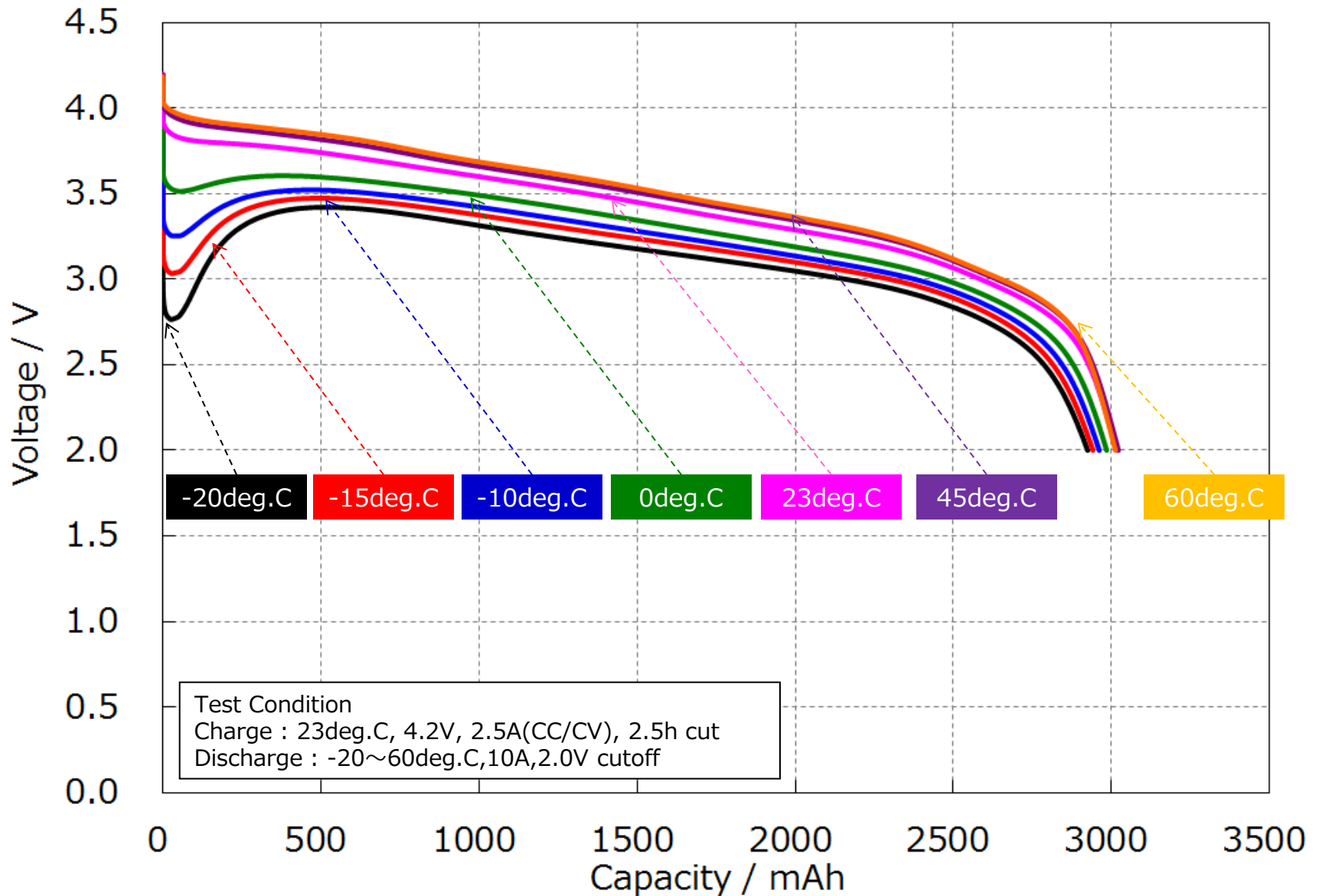
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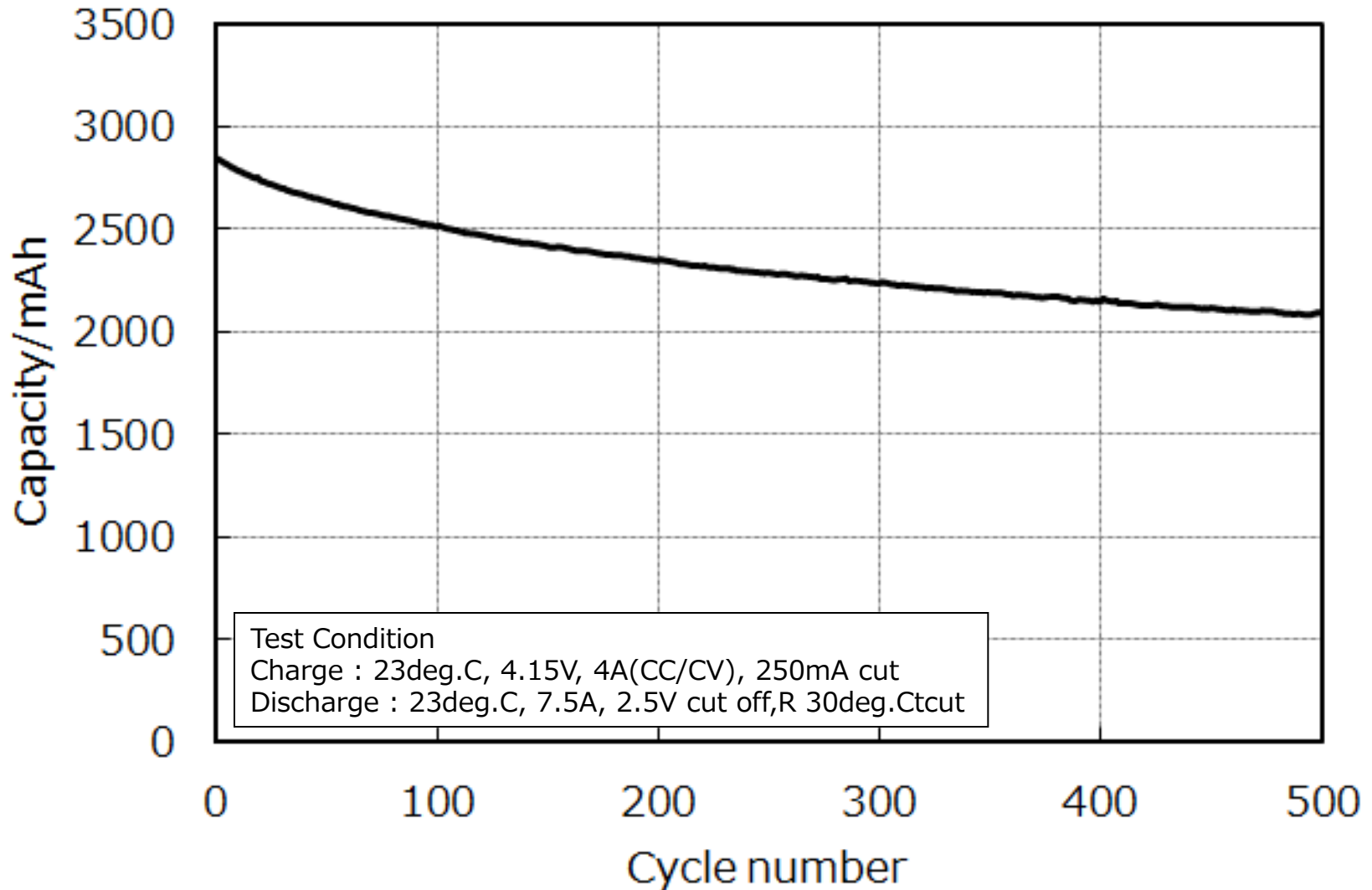
# Temperature Dependence of Discharge Capacity (US18650VTC6)



# Temperature Dependence of Discharge Curves (US18650VTC6)

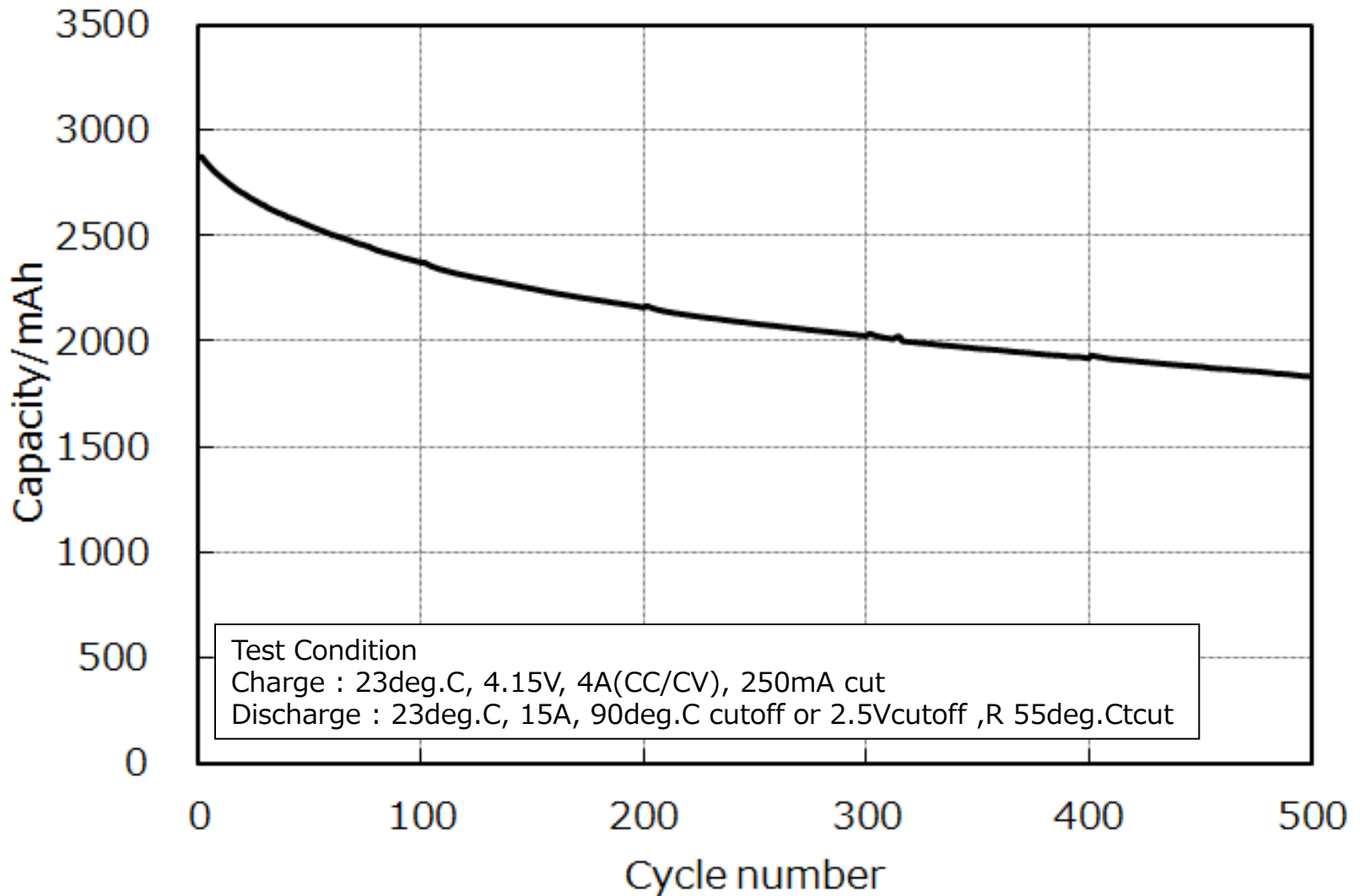


# Cycle Life Performance (US18650VTC6) 7.5A discharge





# Cycle Life Performance (US18650VTC6) 15A discharge



# Dimension with Plastic Tube: US18650VTC6

