

# Lithium Ion Rechargeable Battery

## Technical Information

Revision 0.2  
30th Jun 2015

<b>Model Number</b>	<b>US18650VTC6</b>
<b>Cell Type</b>	<b>Cylindrical</b>
<b>Cell Name</b>	<b>US18650VTC6</b>
<b>Sony Code</b>	<b>49939240</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 : 49939240

### 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 : 46.6g Average

### 1.3 Safety Regulation

: Sony acquired UL1642.  
: Sony acquired IEC62133 2nd edition.  
: Sony acquired Korean regulation.  
: Sony acquired Taiwan Commodity  
Inspection Act(CNS 15364)

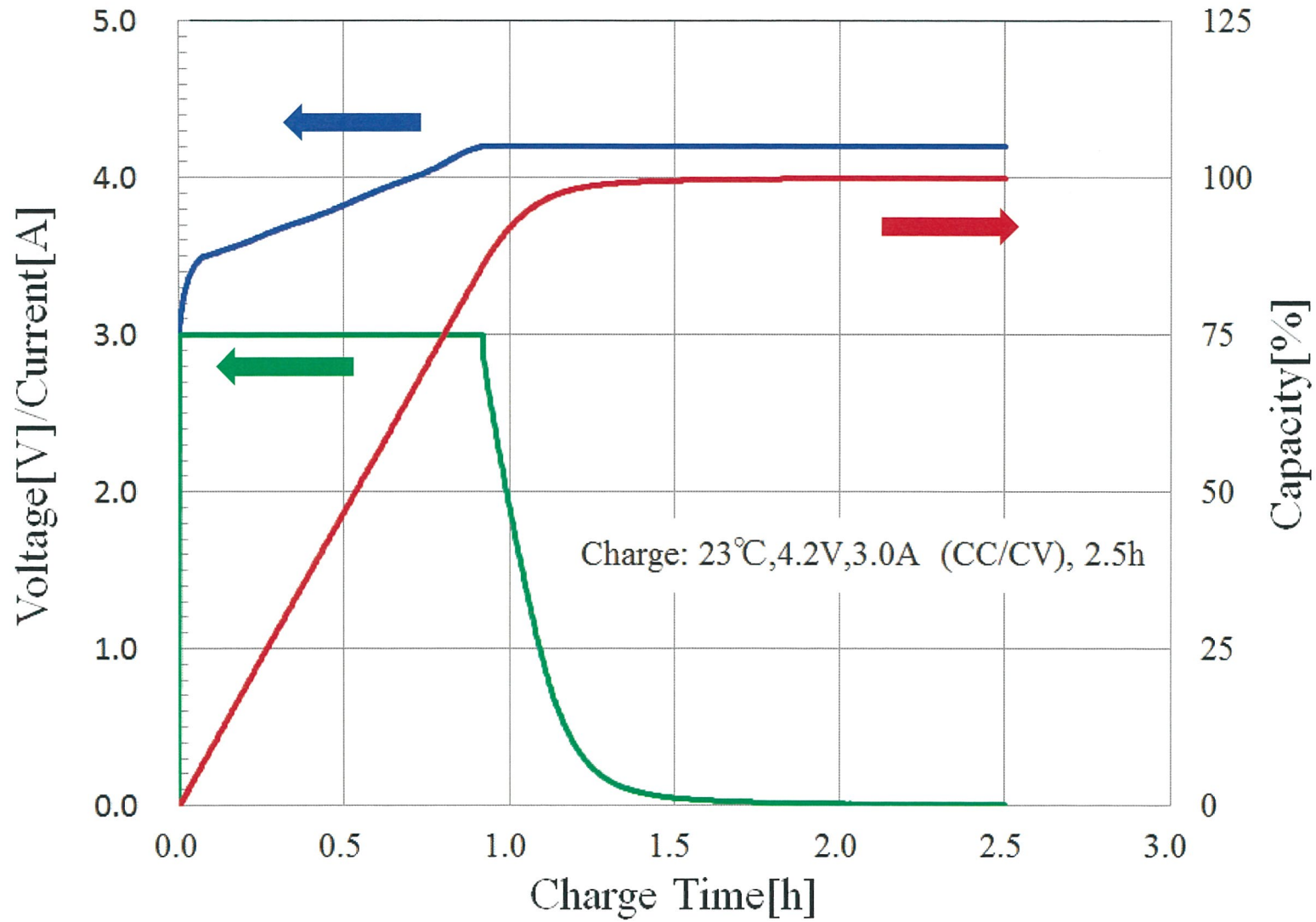
## 2. Performance

Nominal Capacity at 0.2ItA	3120mAh 11.23Wh	discharge 2.0V cut off at 23°C
Rated Capacity at 0.2ItA	3000mAh 10.8Wh	discharge 2.0V cut off at 23°C
Capacity at 1ItA (typ.)	2850mAh 10.12Wh	discharge 2.5V cut off at 23°C
Capacity at 10A (typ.)	2700mAh 9.18Wh	discharge 2.5V cut off at 23°C
Nominal Voltage	3.6V	
Internal Impedance	13mΩ Typ.	measured by AC1kHz
Cycle Performance	53% Min. of Initial capacity at 300 cycles	10A discharge

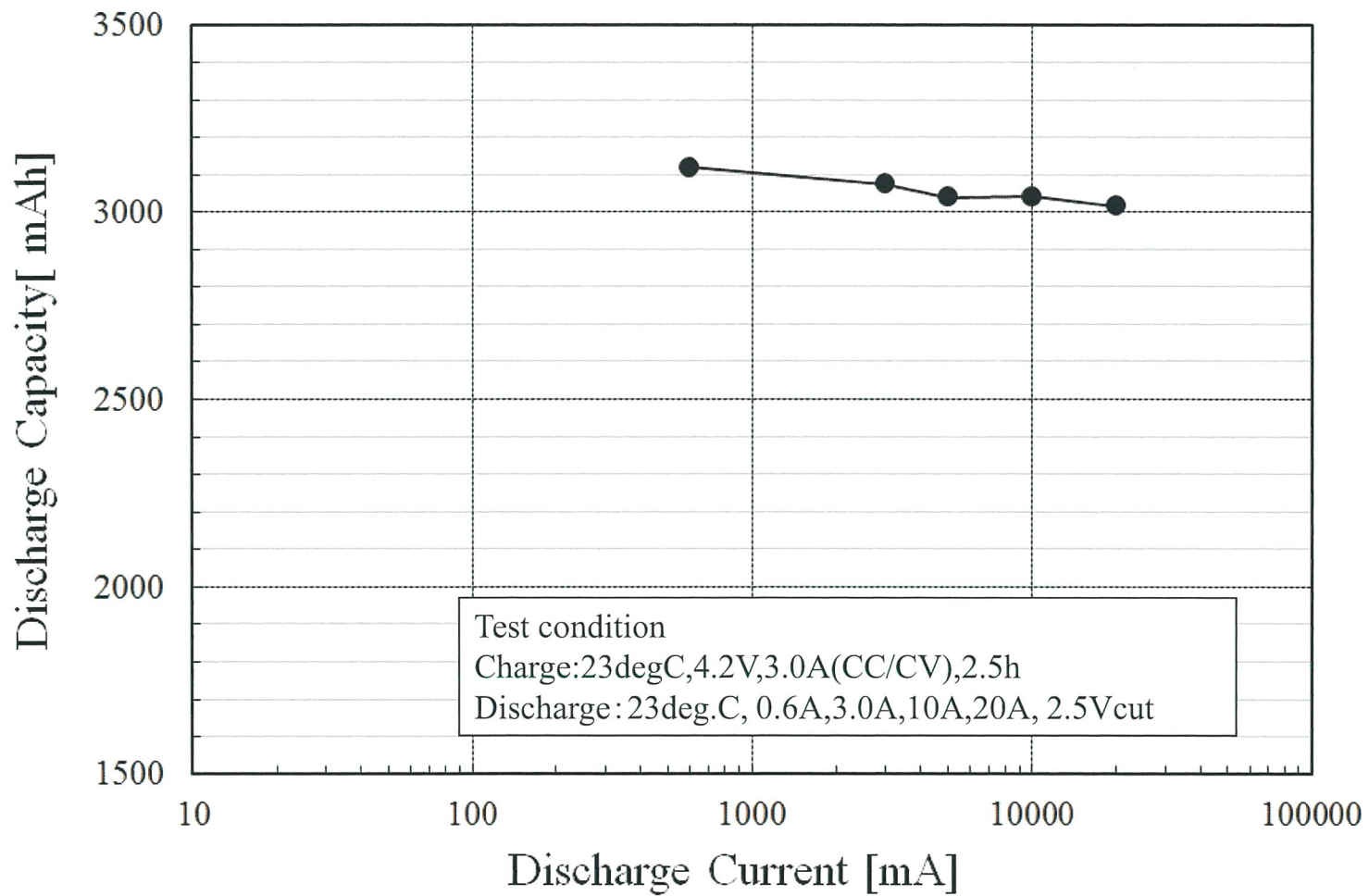
### \* Standard Charge Condition

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

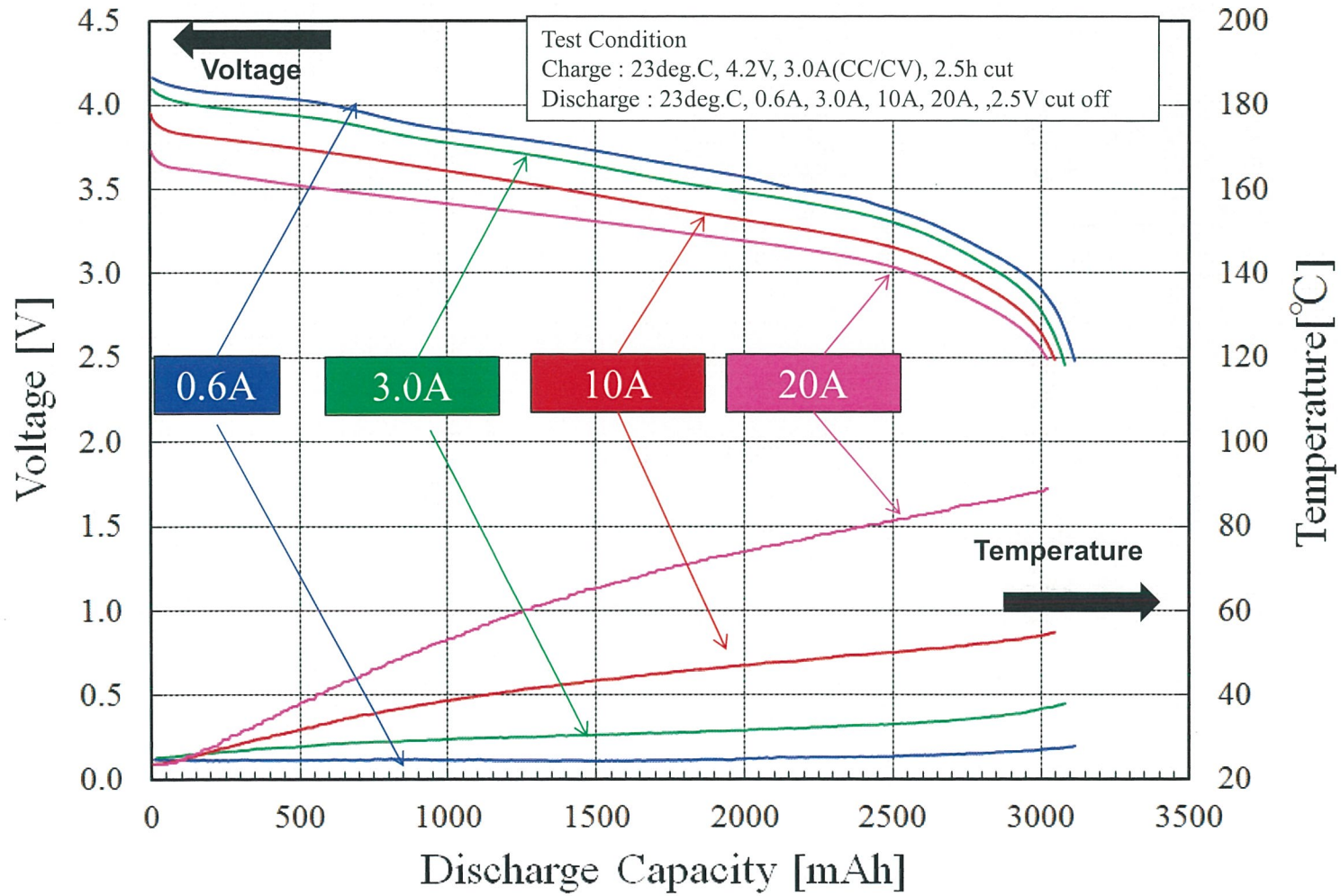
### Charge Characteristics (US18650VTC6)



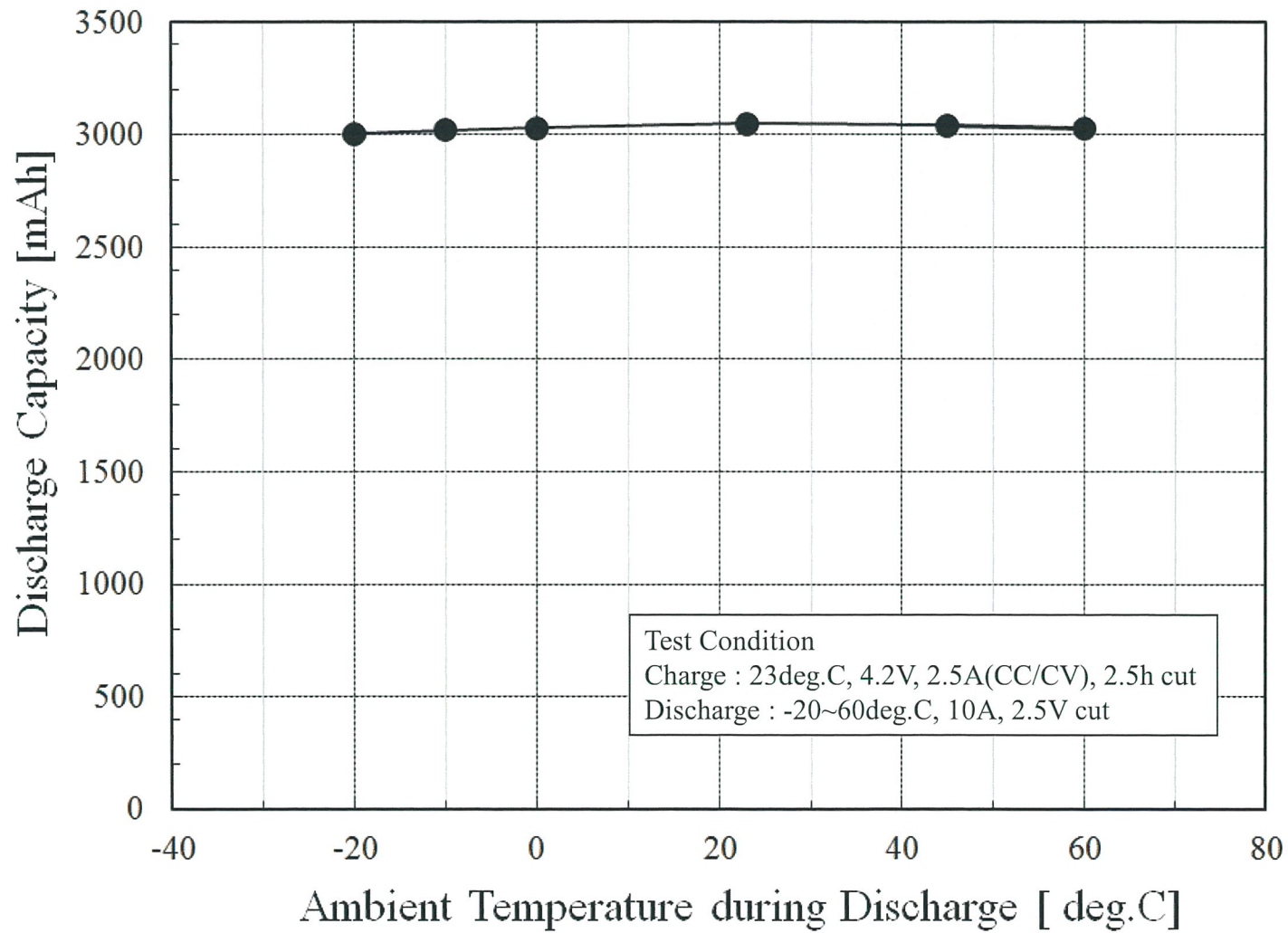
## Discharge Load Characteristics (US18650VTC6)



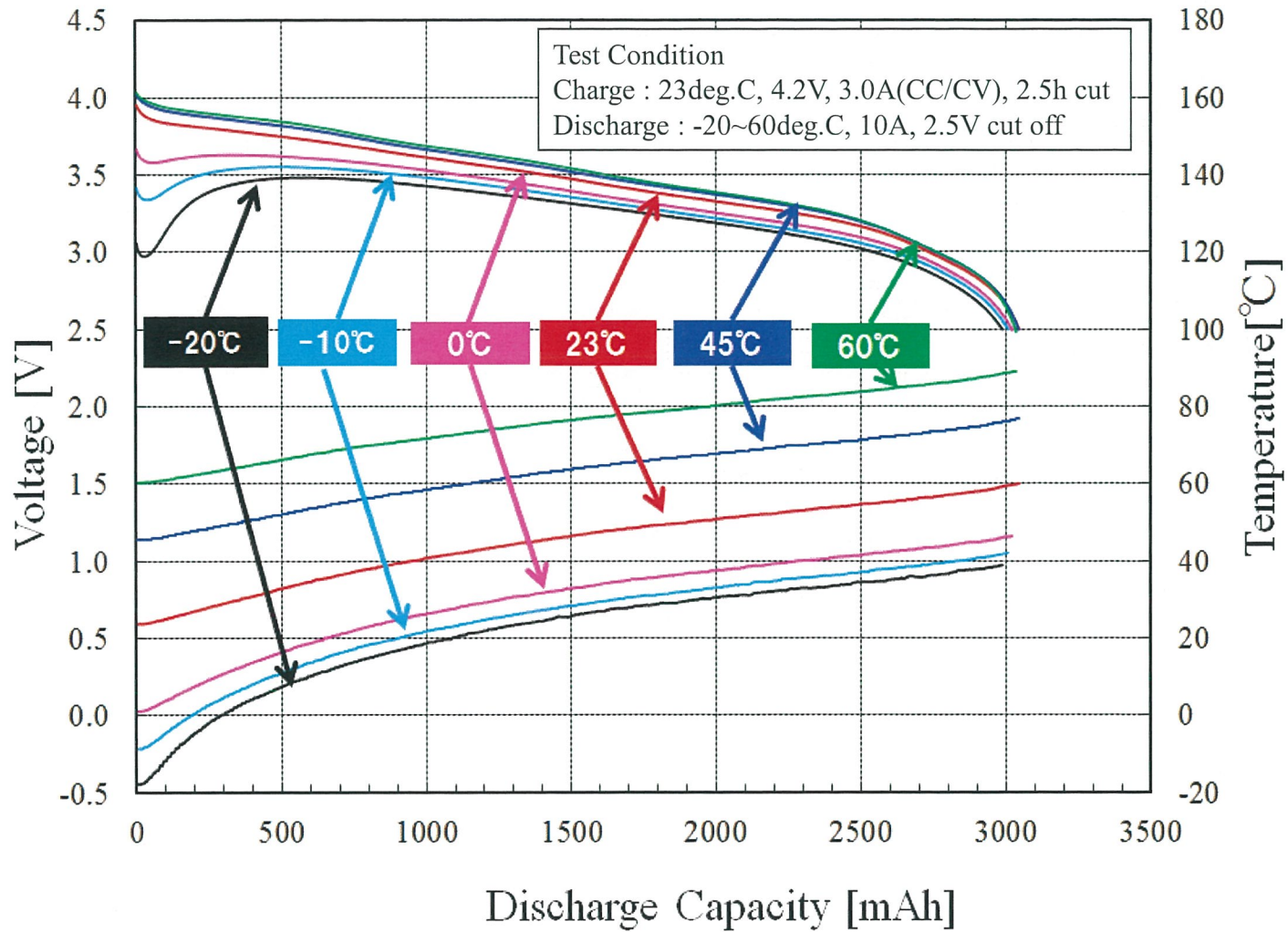
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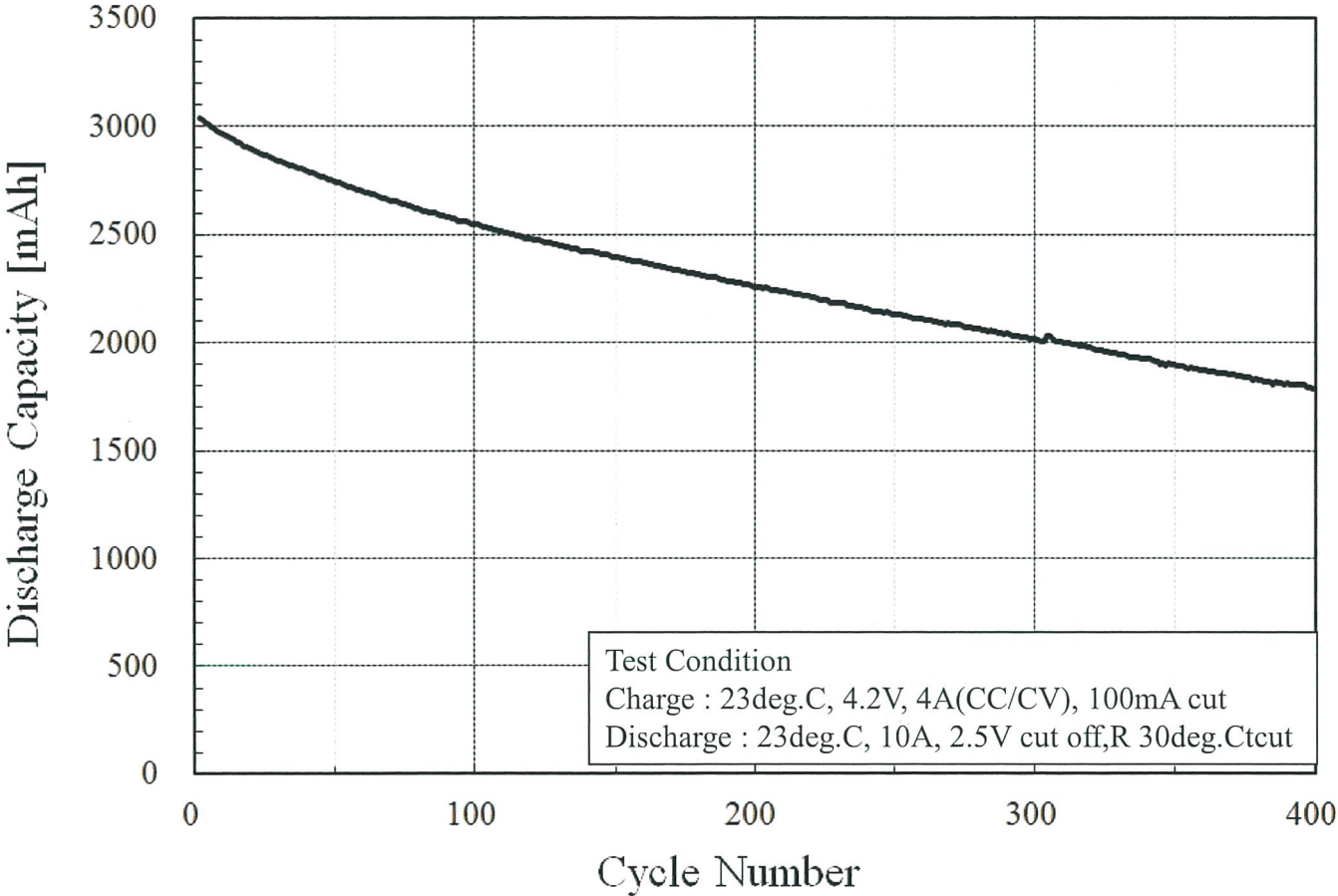
## Temperature Dependence of Discharge Capacity (US18650VTC6)



## Temperature Dependence of Discharge Curves (US18650VTC6)



**Cycle Life Performance (US18650VTC6)**  
**10A discharge**





## Dimension with Plastic Tube: US18650VTC6

