

## 1. General

### **1.1 Scope**

This specification applies to type  
: US616484 Lithium Ion Polymer Rechargeable Battery

### **1.2 Name and Code**

**1.2.1 Cell Name** : US616484  
**1.2.2 Model Number** : US616484K6S  
1.2.3 Code : 49919490

### **1.3 Cell Shape and Weight**

**1.3.1 Cell Shape** : Polymer  
**1.3.2 Size** : Thickness 6.1mm max  
Width 64.0mm max  
Length (without tab) 84.0mm max  
**1.3.3 Weight** : 74.4 g (typical)

### **1.4 Reference test current**

1.0ItA : 4040mA

### **1.5 Safety Regulation**

Acquired UL1642.

## 2. Performance

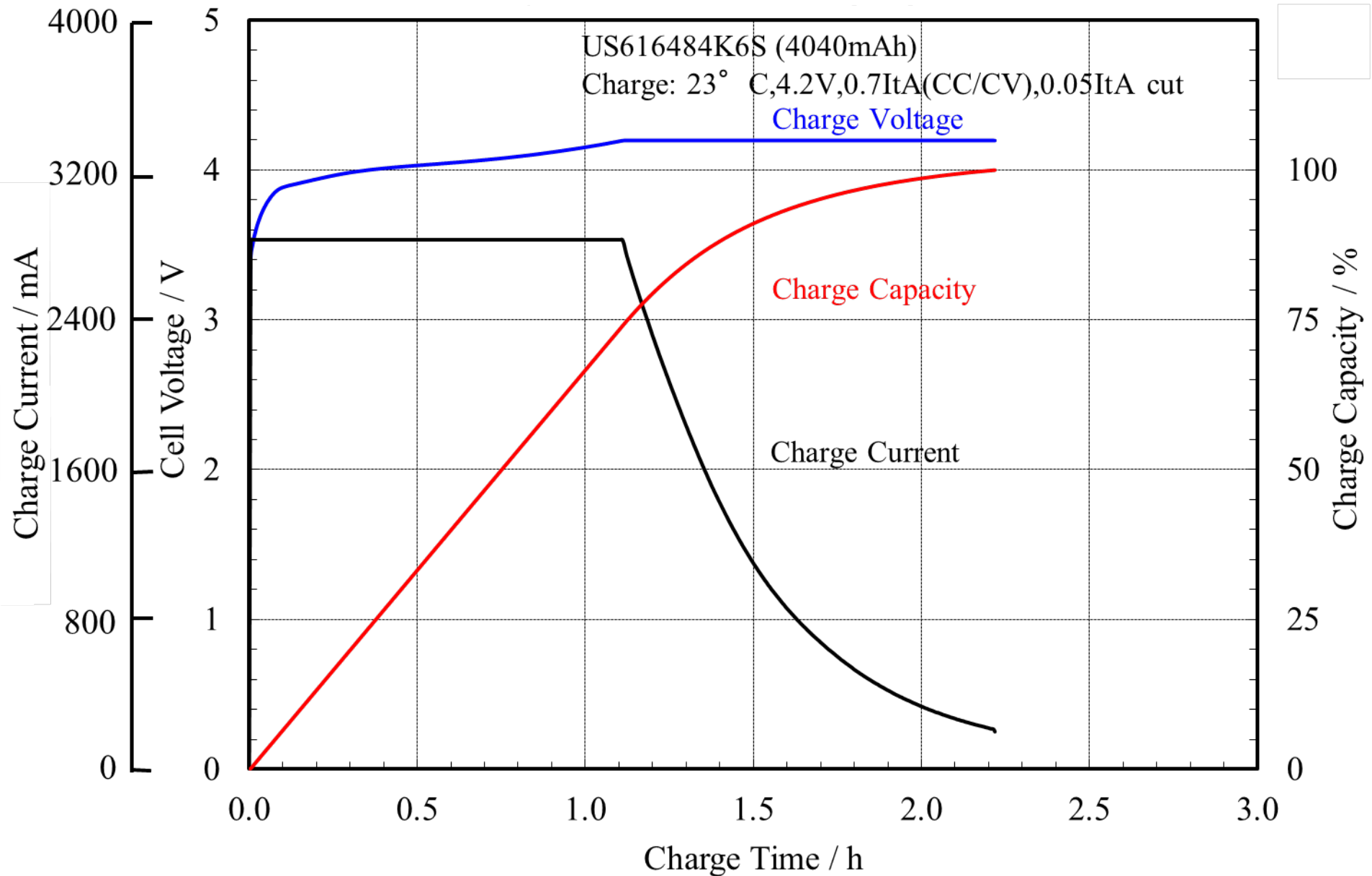
at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	4250mAh 16.07Wh	average capacity 3.78 V (average discharge voltage)
Rated Capacity (0.2ItA discharge)	4040mAh 15.27Wh	minimum capacity
Capacity at 0.5ItA	4200mAh 15.51Wh	average capacity
Capacity at 1.0ItA	4120mAh 14.76Wh	average capacity
Nominal Voltage	3.70V	
Internal Impedance	30mΩ	measured by AC1kHz
Cycle Performance	80% of Initial capacity at 500 cycles	0.5ItA discharge rate

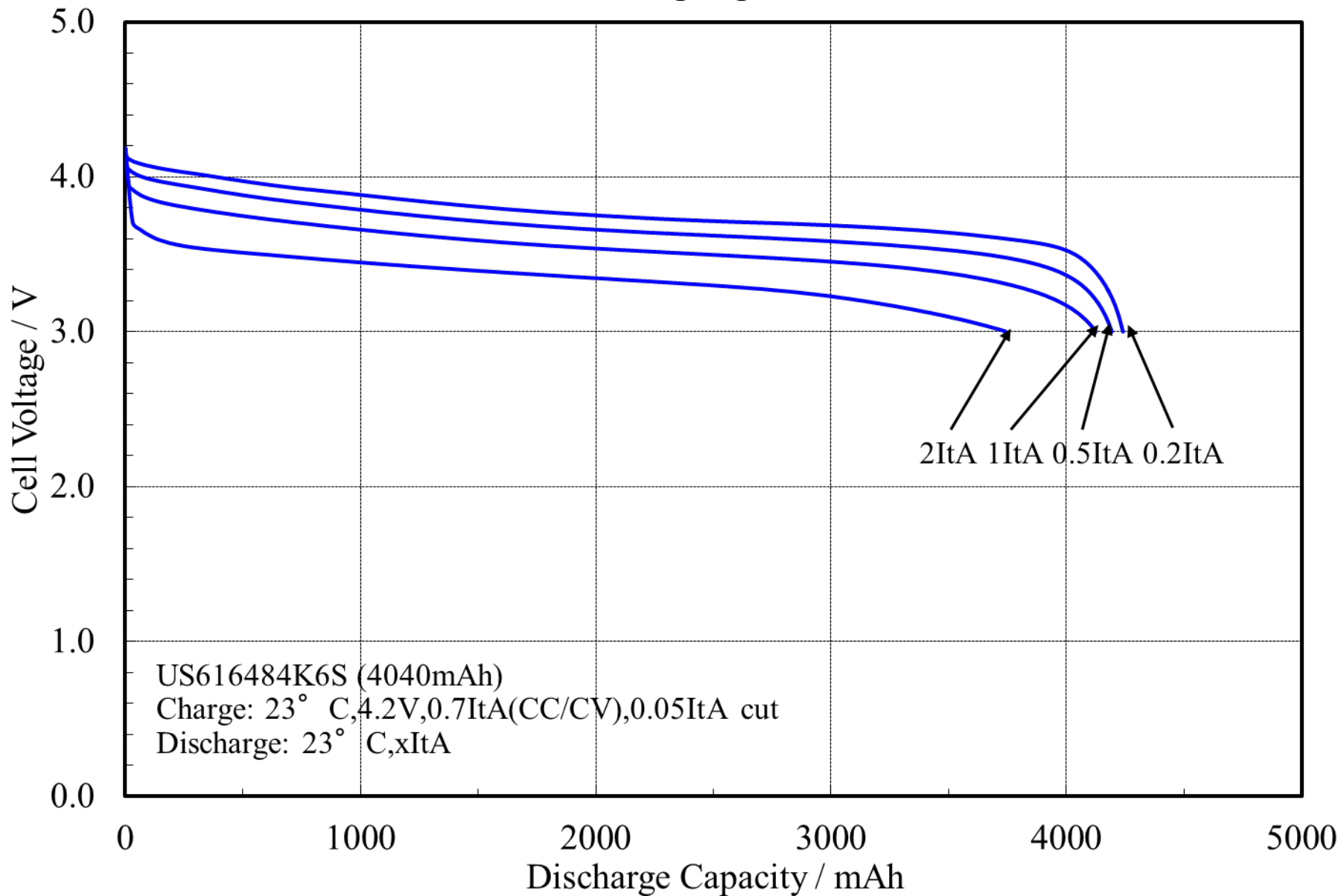
### \* Standard Charge Condition

Charge Method : constant current constant voltage  
Charge Up Voltage : 4.2 V ± 0.05V  
Charge Current : 2.828A  
Charge Cut off Current : 202mA cut off  
Ambiance Temperature : 23°C

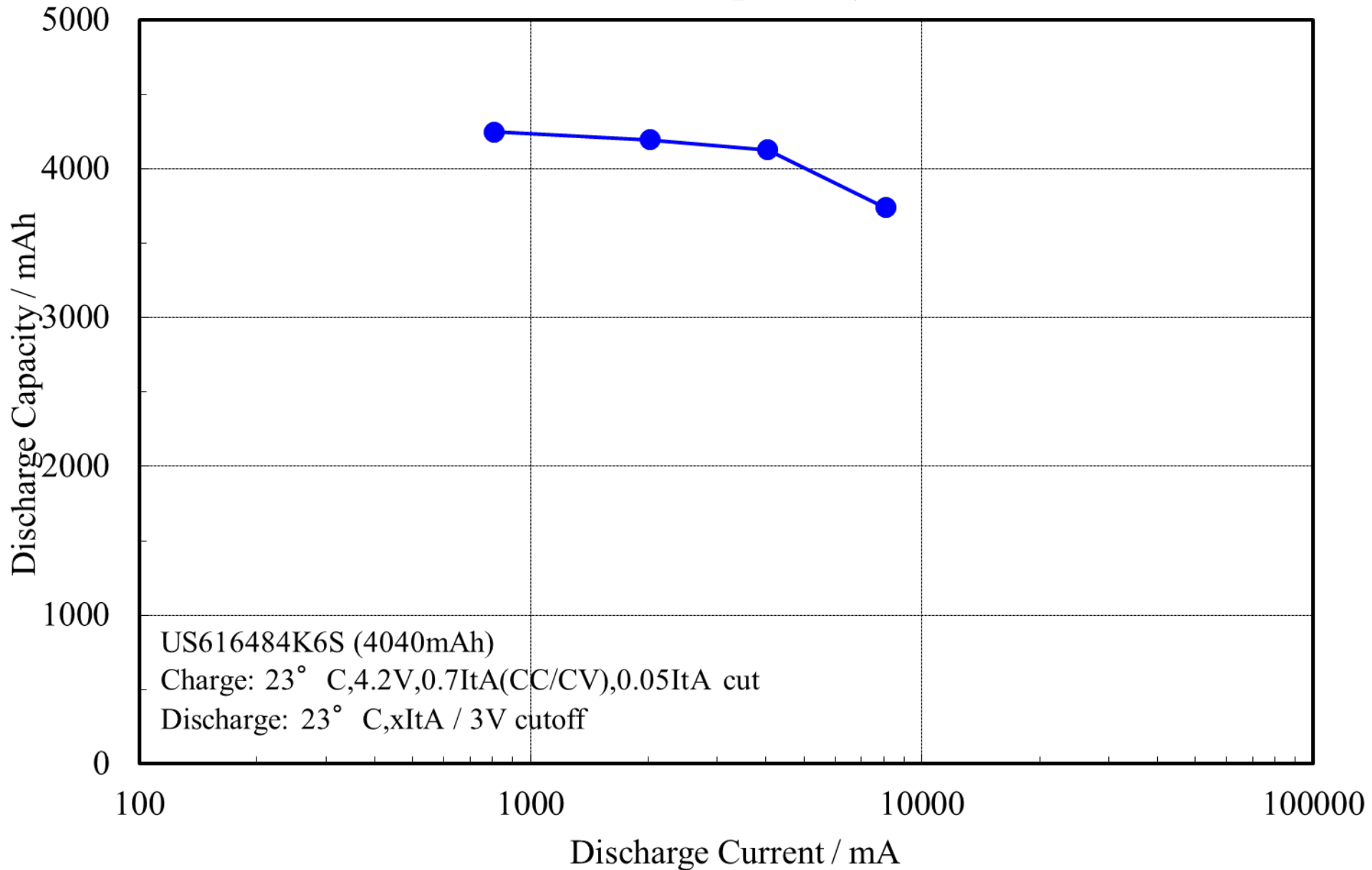
# Charging Profile



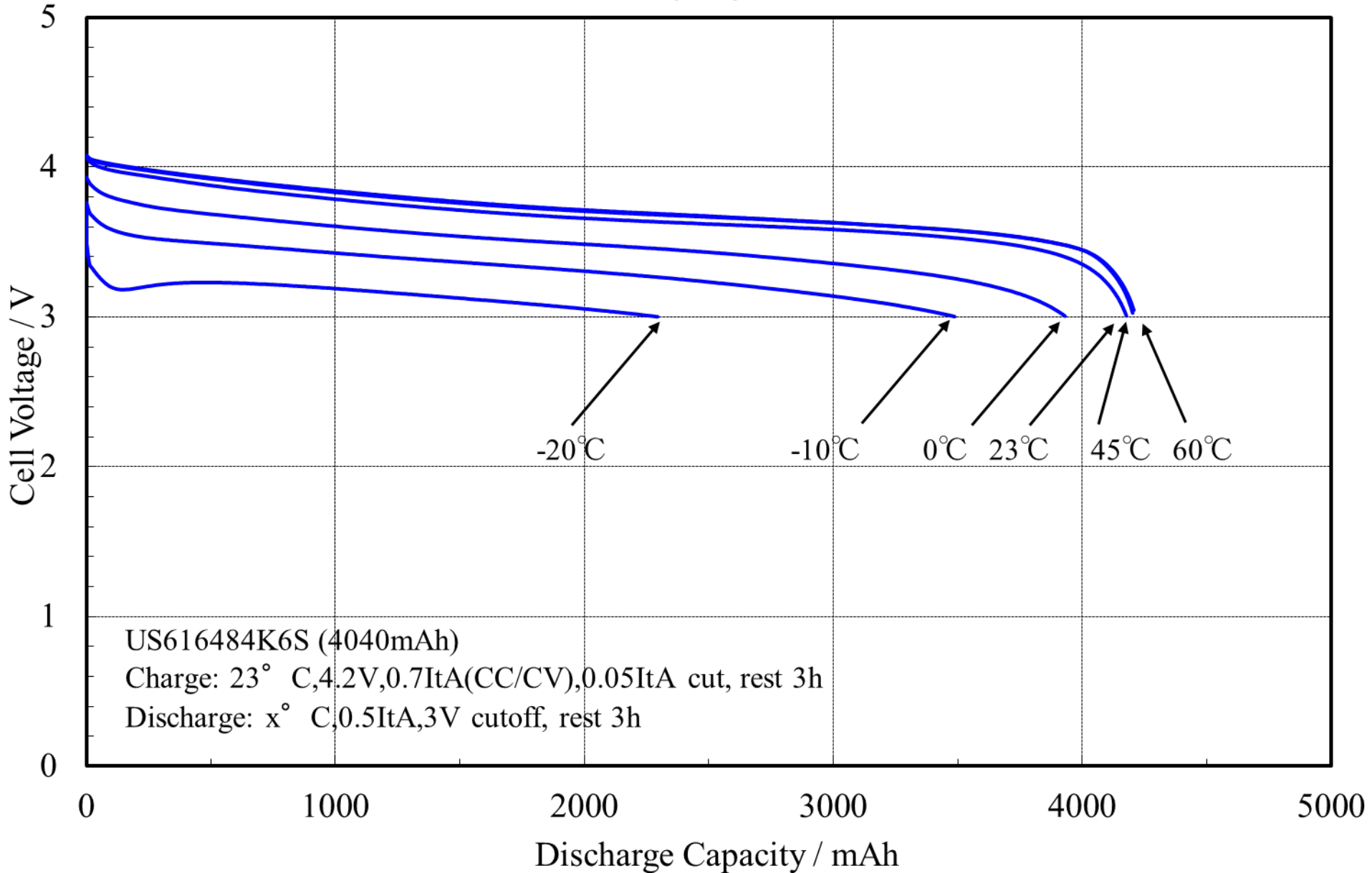
# Discharging Profile



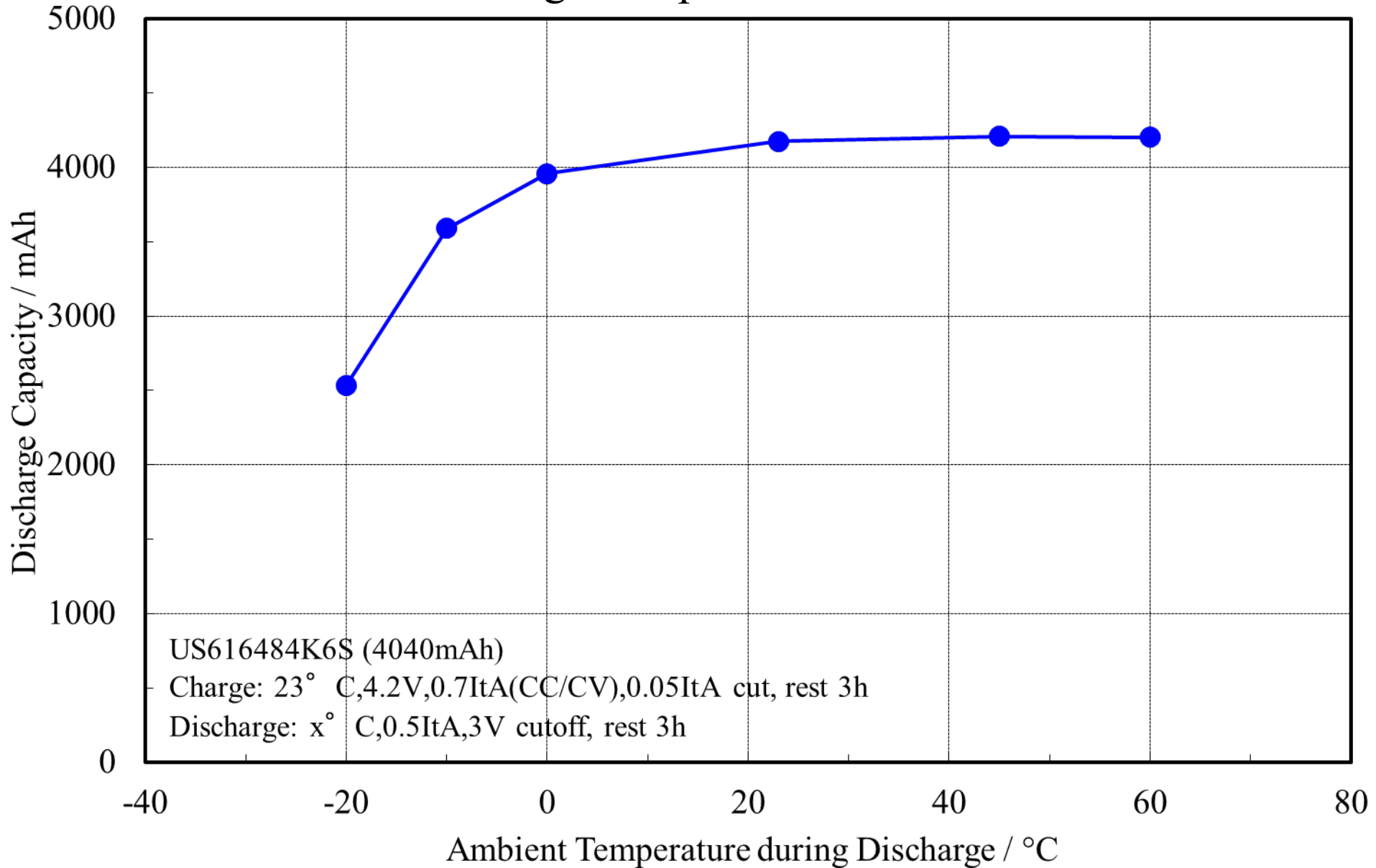
# Drain Capability



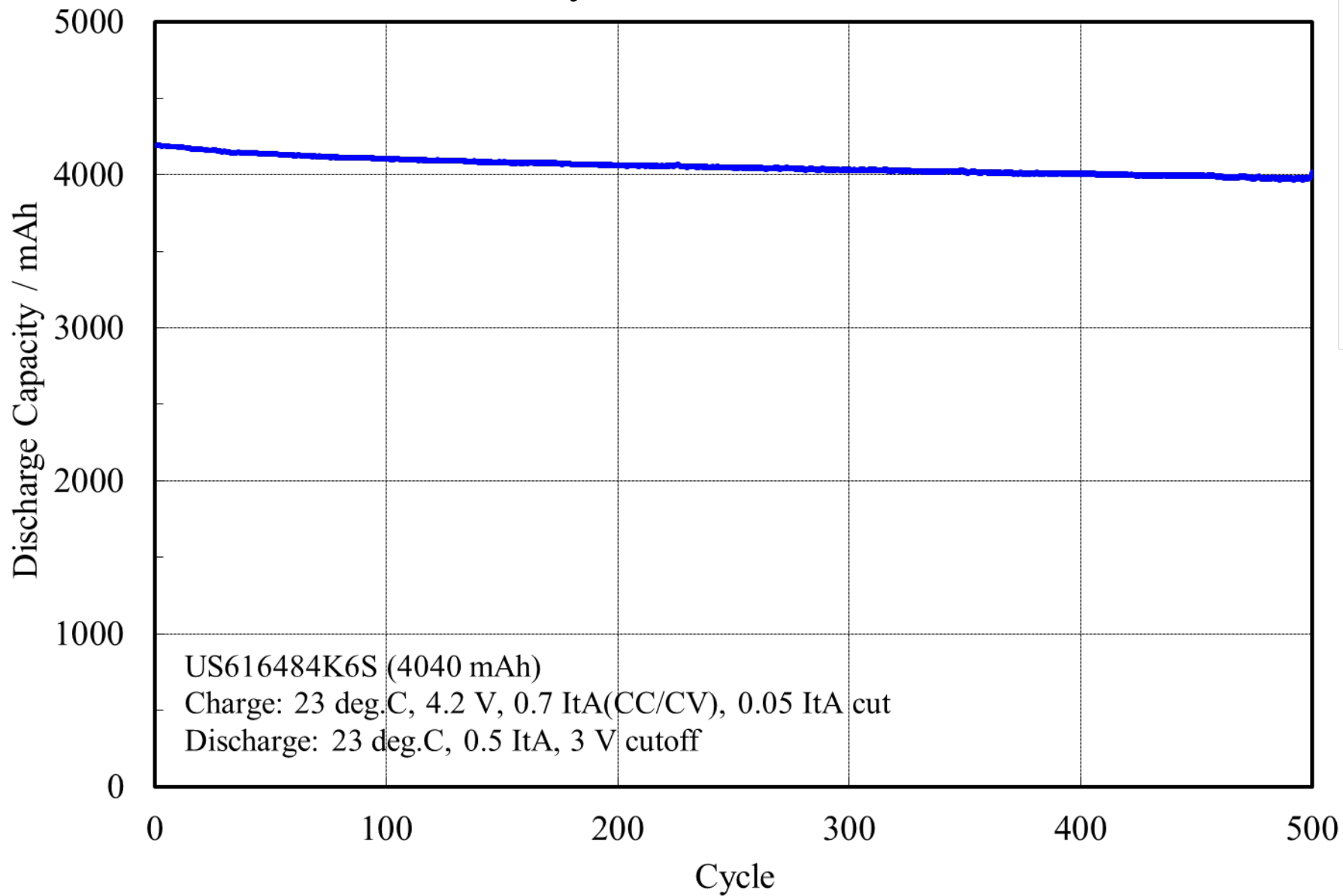
# Discharging Profile



# Discharge Temperature Performance



# Cycle Performance



# Cell Size (US616484K6S)

