

## 1. General

### **1.1 Scope**

This specification applies to type

: US394549A10S Lithium Ion Polymer Rechargeable Battery

### **1.2 Name and Code**

**1.2.1 Cell Name** : US394549

**1.2.2 Model Number** : US394549A10S

**1.2.3 Code** : 49942915

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

**1.3.1 Cell Shape** : Polymer

**1.3.2 Size** : Thickness 3.87 mm max  
Width 44.1 mm max  
Length(without Tab) 48.2 mm max

**1.3.3 Weight** : 18.9 g (typical)

### **1.4 Reference test current**

1.0 ItA: 1045 mA

### **1.5 Safety Regulation**

acquired UL1642

## 2. Performance

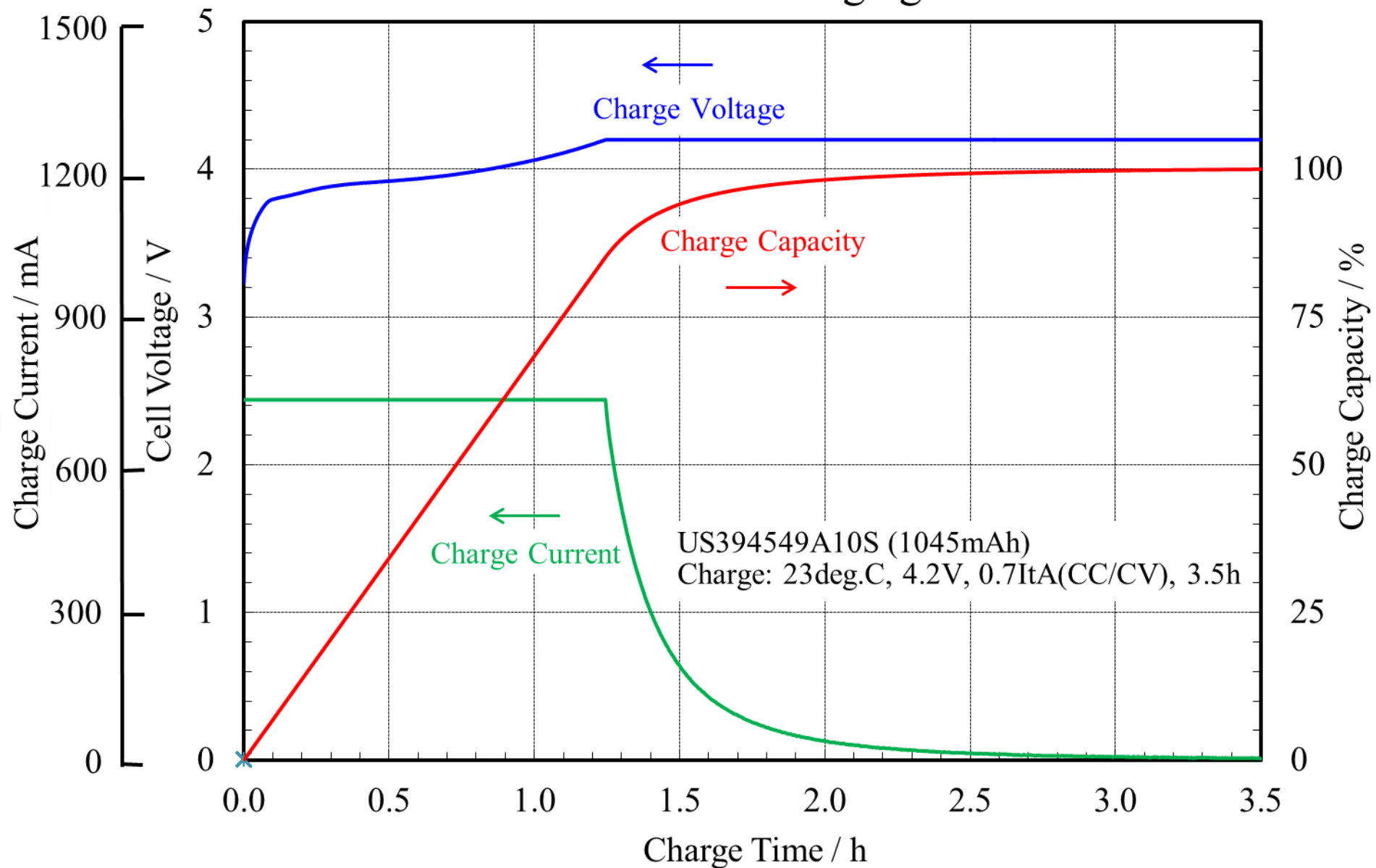
at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	1070mAh	average capacity 3.8 V (average discharge voltage)
	4.07 Wh	
Rated Capacity (0.2ItA discharge)	1045mAh	minimum capacity
	3.87 Wh	
Capacity at 0.5ItA	1058mAh	average capacity
	3.97 Wh	
Capacity at 1.0ItA	1042mAh	average capacity
	3.84 Wh	
Nominal Voltage	3.7 V	
Internal Impedance	45 mΩ	measured by AC1 kHz
Cycle Performance	80% of Initial capacity at 500 cycles	0.5 ItA discharge rate

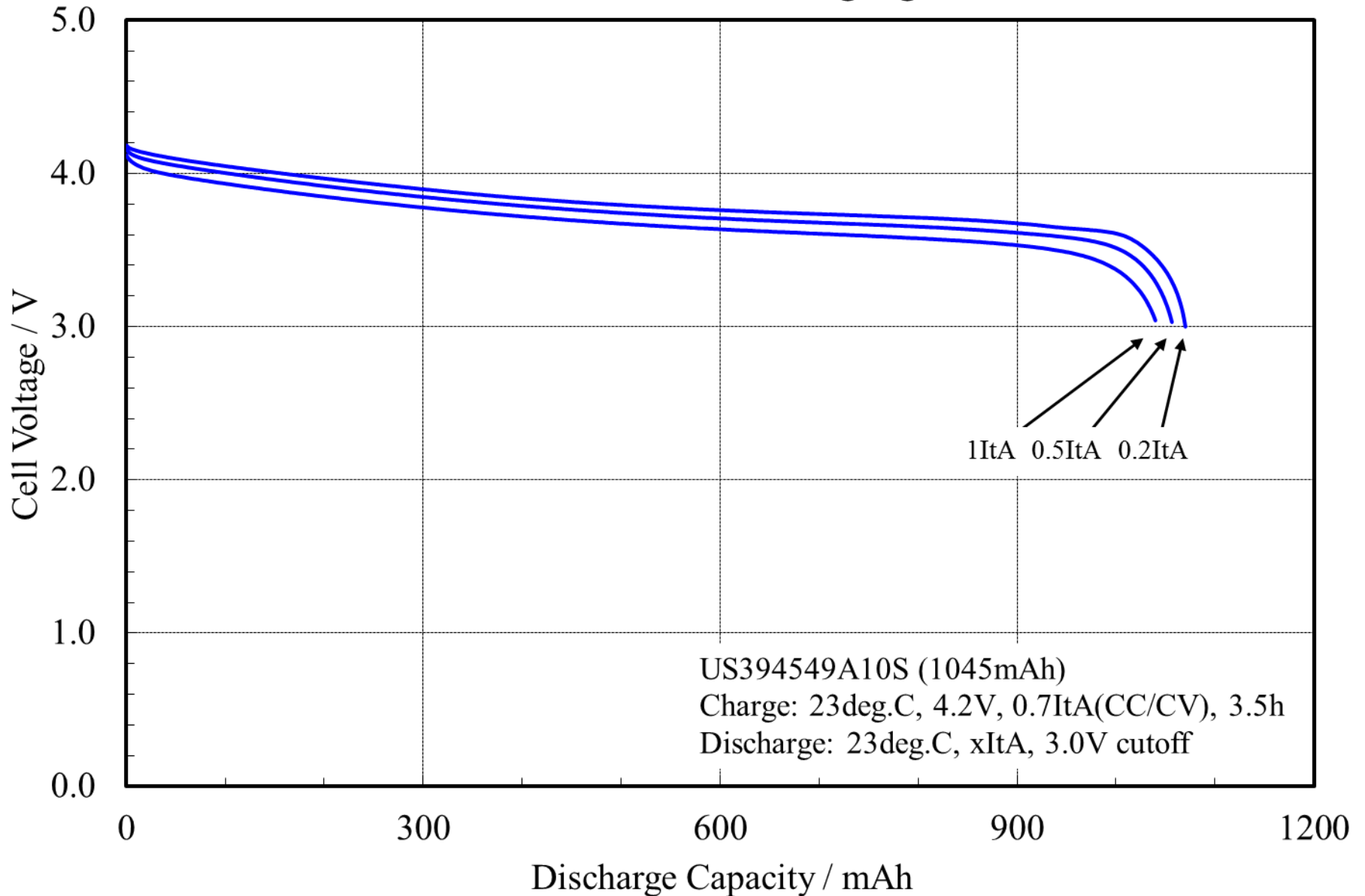
\*Standard Charge Condition

Charge Method : constant current / constant voltage  
Charge Up Voltage :  $4.2 \pm 0.05$  V  
Charge Current : 0.731 A  
Charge Cut off Time : 3.5 h  
Ambiance Temperature : 23 °C

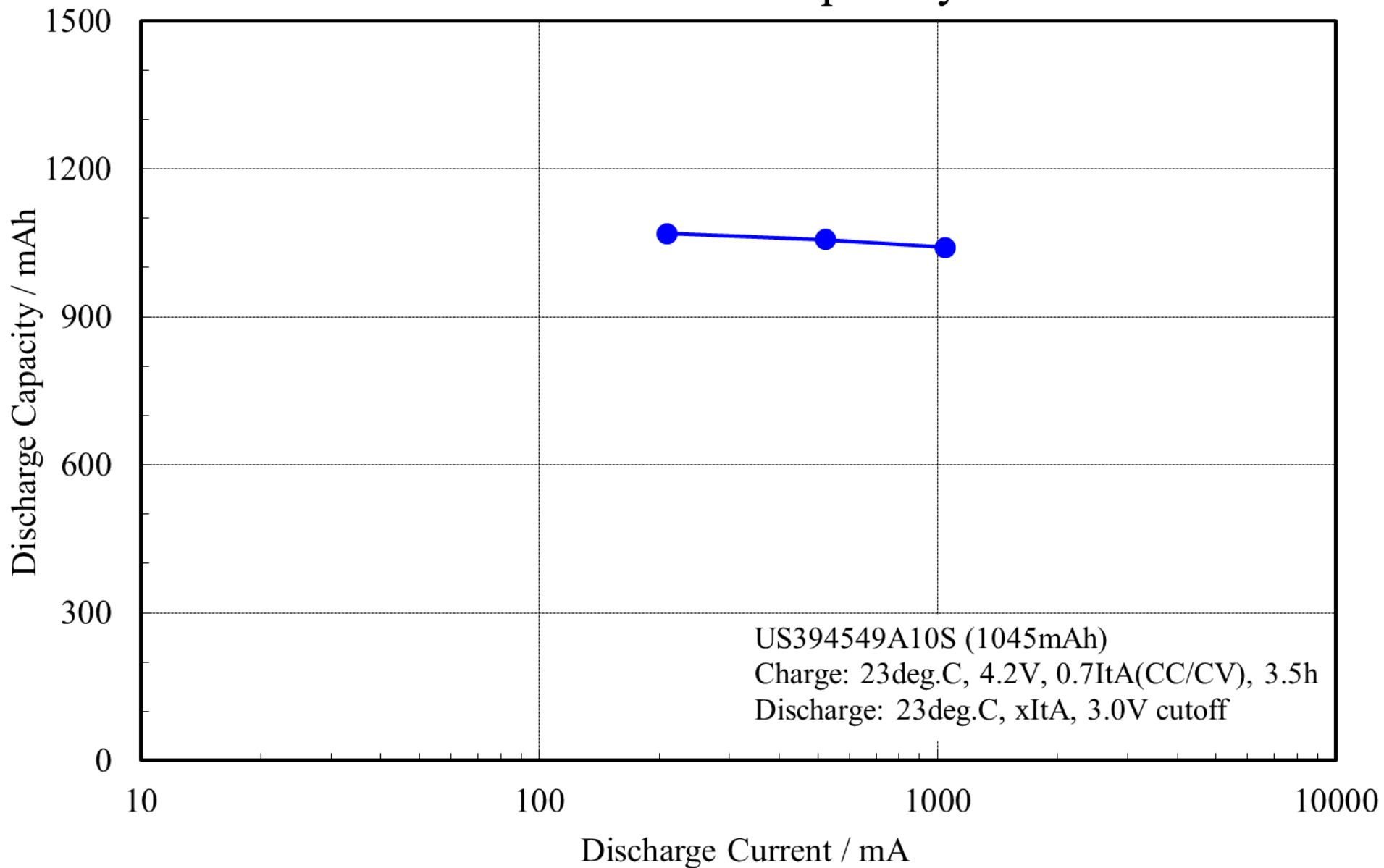
# Charging Profile



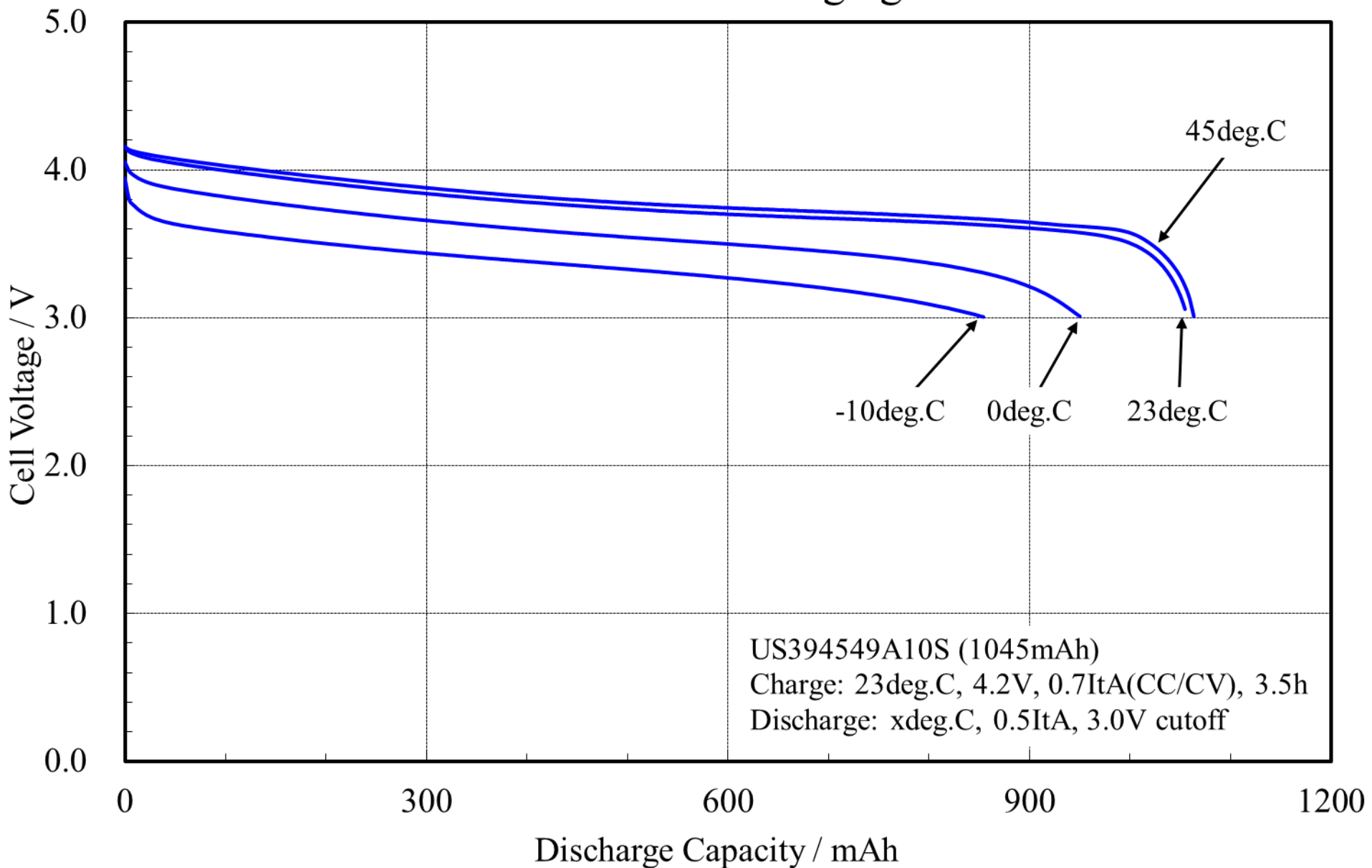
# Discharging Profile



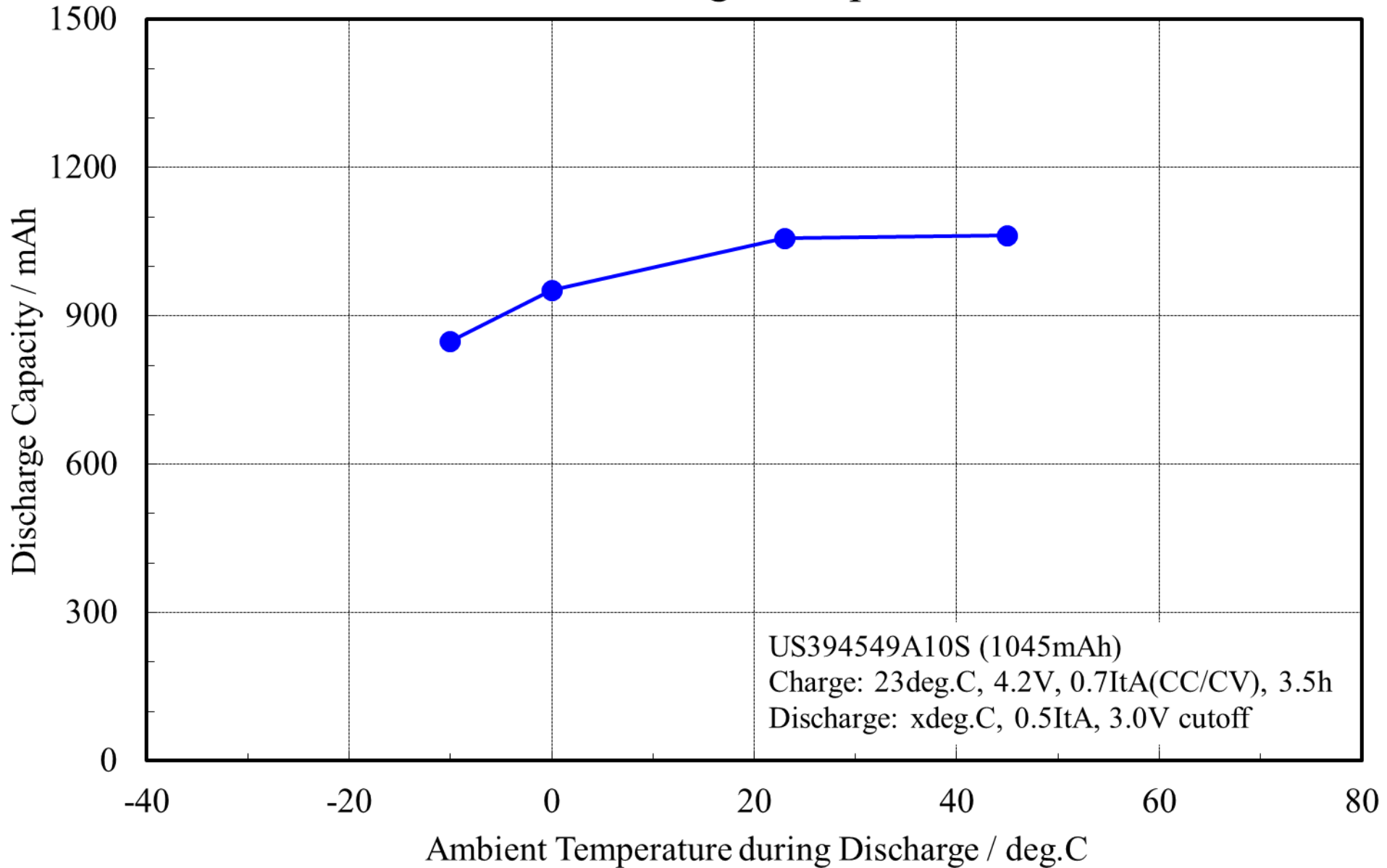
# Drain Capability



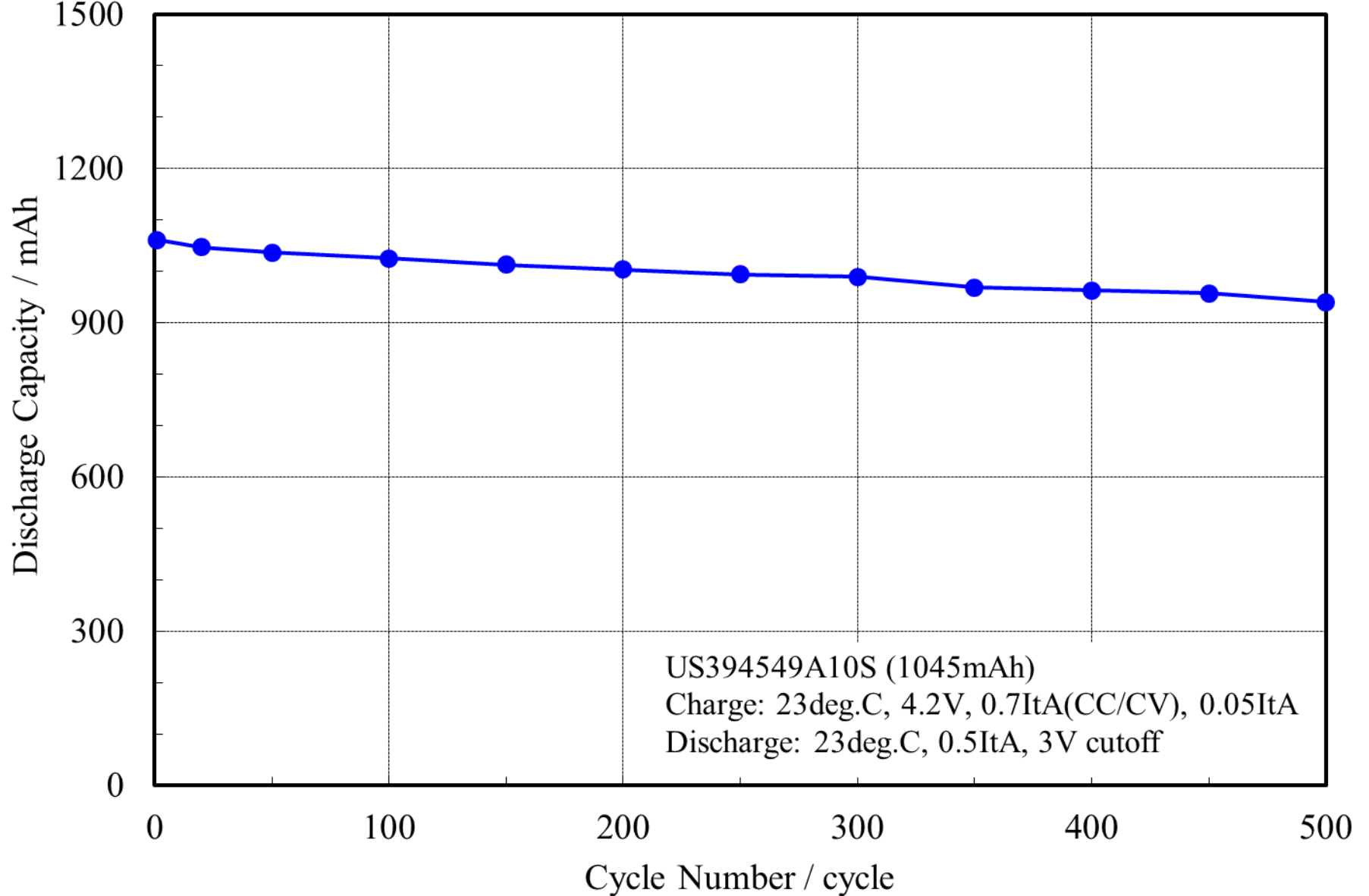
# Discharging Profile



# Discharge Temperature Performance



# Cycle Performance



# Cell Size (US394549A10S)

