

## 1. General

### **1.1 Scope**

This specification applies to type

: US501424A10S Lithium Ion Polymer Rechargeable Battery

### **1.2 Name and Code**

**1.2.1 Cell Name** : US501424

**1.2.2 Model Number** : US501424A10S

**1.2.3 Code** : 49936850

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

**1.3.1 Cell Shape** : Polymer

**1.3.2 Size** : Thickness 5.05 mm max  
Width 13.8 mm max  
Length(without Tab) 24 mm max

**1.3.3 Weight** : 3 g (typical)

### **1.4 Reference test current**

1.0 ItA: 126 mA

### **1.5 Safety Regulation**

acquired UL1642

## 2. Performance

at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	134mAh	average capacity 3.8 V (average discharge voltage)
	0.51 Wh	
Rated Capacity (0.2ItA discharge)	126mAh	minimum capacity
	0.47 Wh	
Capacity at 0.5ItA	133mAh	average capacity
	0.5 Wh	
Capacity at 1.0ItA	130mAh	average capacity
	0.48 Wh	
Nominal Voltage	3.7 V	
Internal Impedance	140 mΩ	measured by AC1 kHz
Cycle Performance	80% of Initial capacity at 400 cycles	1.0 ItA discharge rate

### \*Standard Charge Condition

Charge Method : constant current / constant voltage

Charge Up Voltage : 4.2 ± 0.05 V

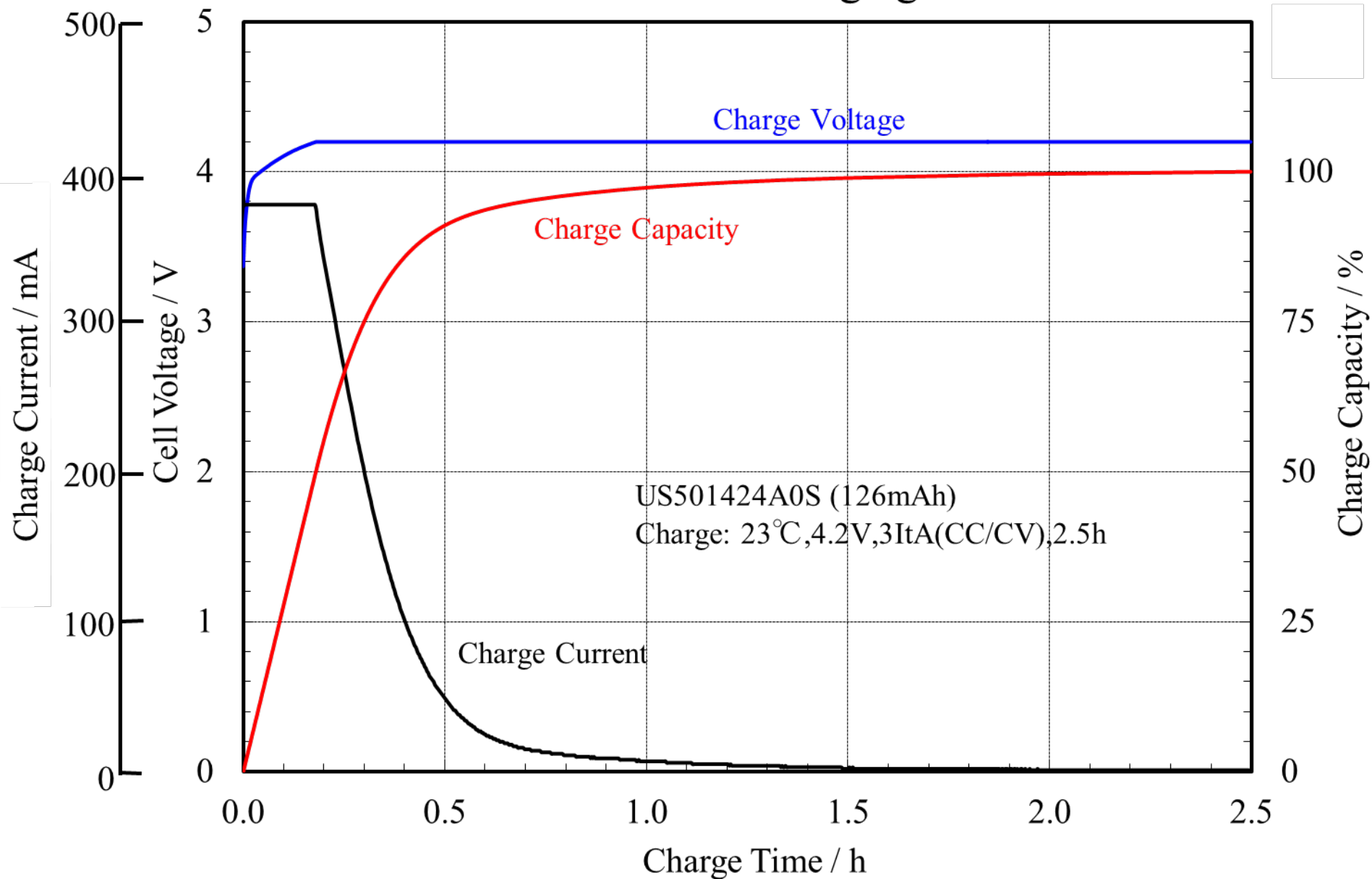
Charge Current : 0.378 A

Charge Cut off Time : 2.5 h

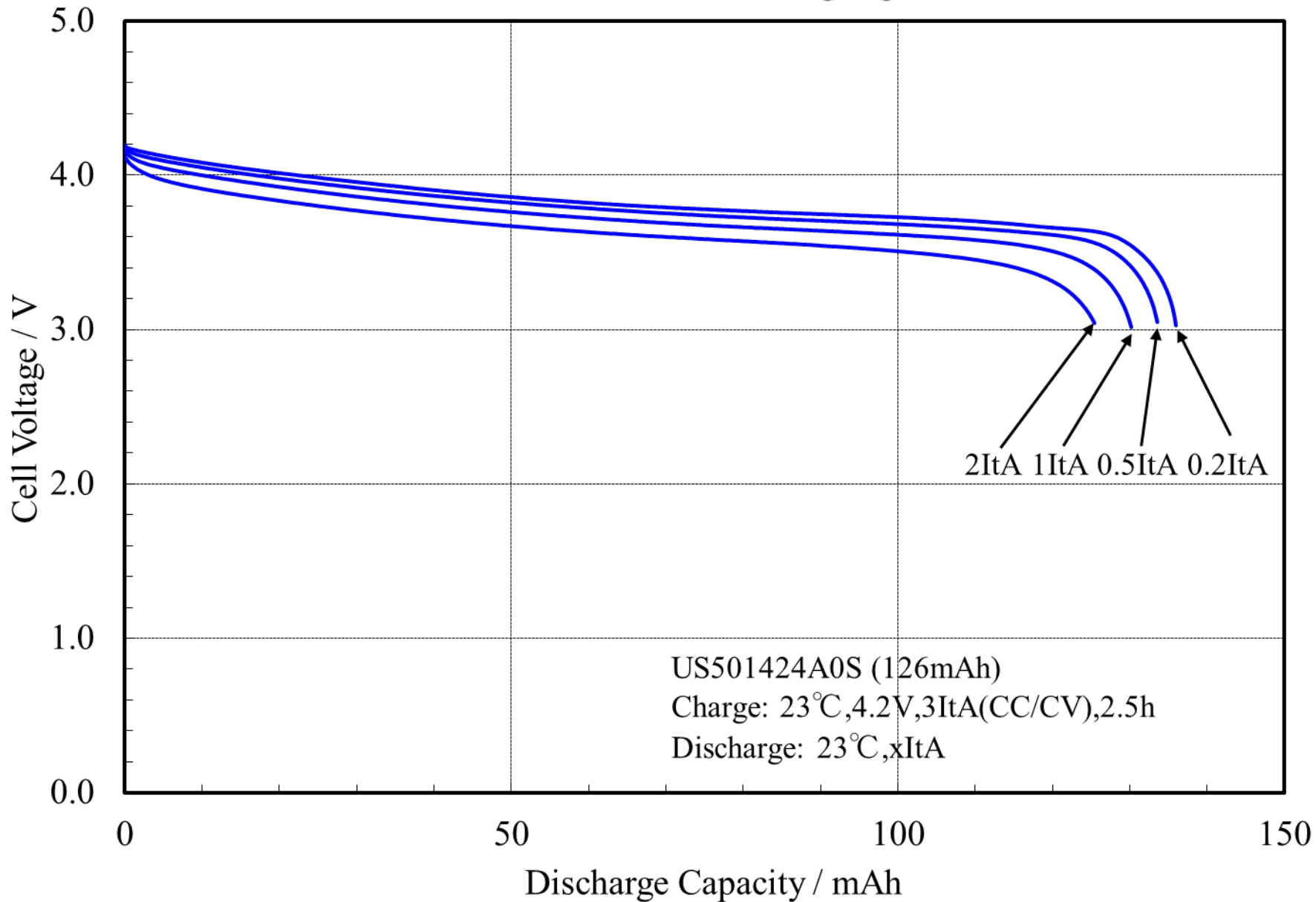
Ambiance Temperature: 23 °C

\*Maximum Charge Current : 0.4 A

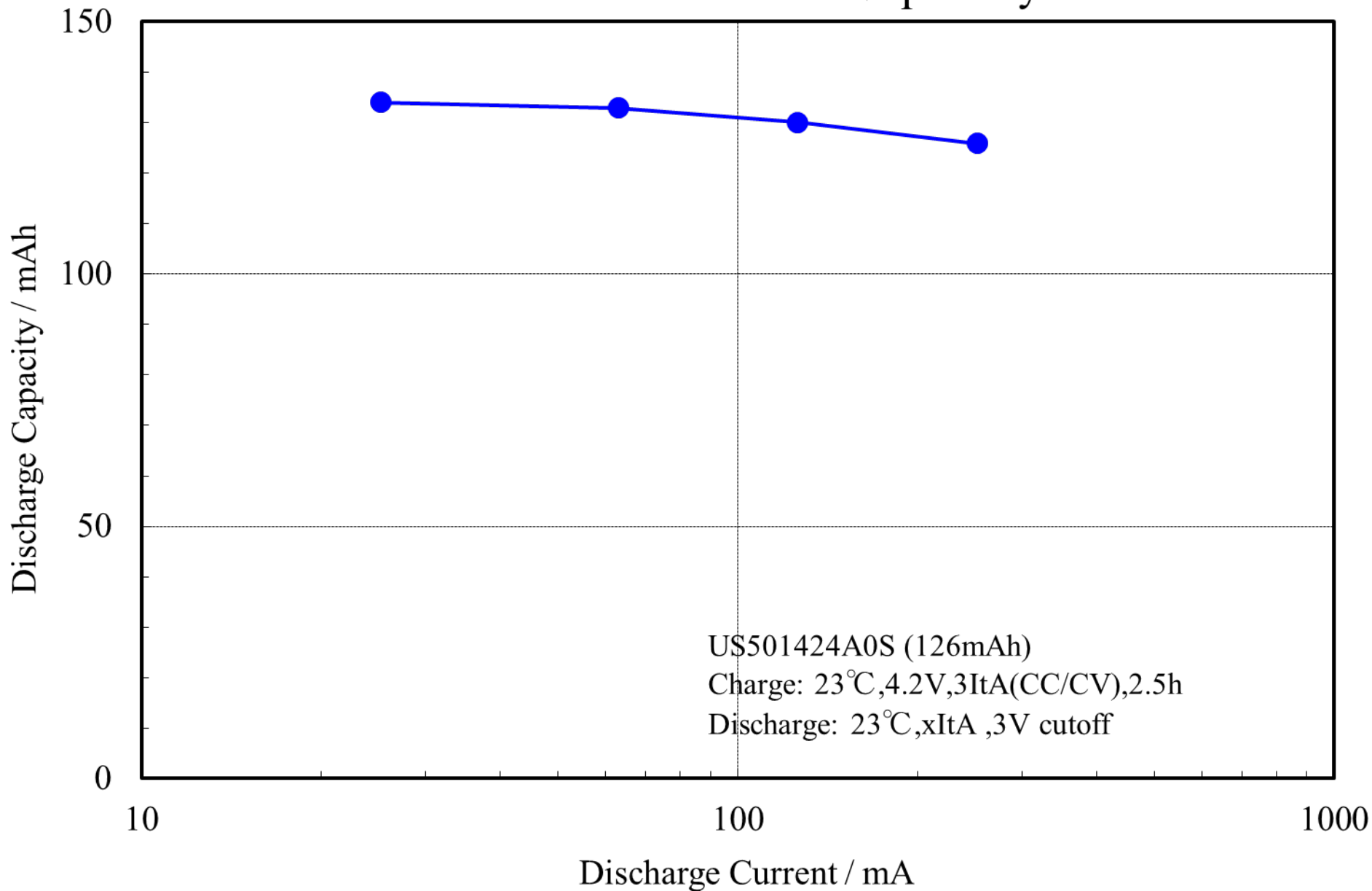
# Charging Profile



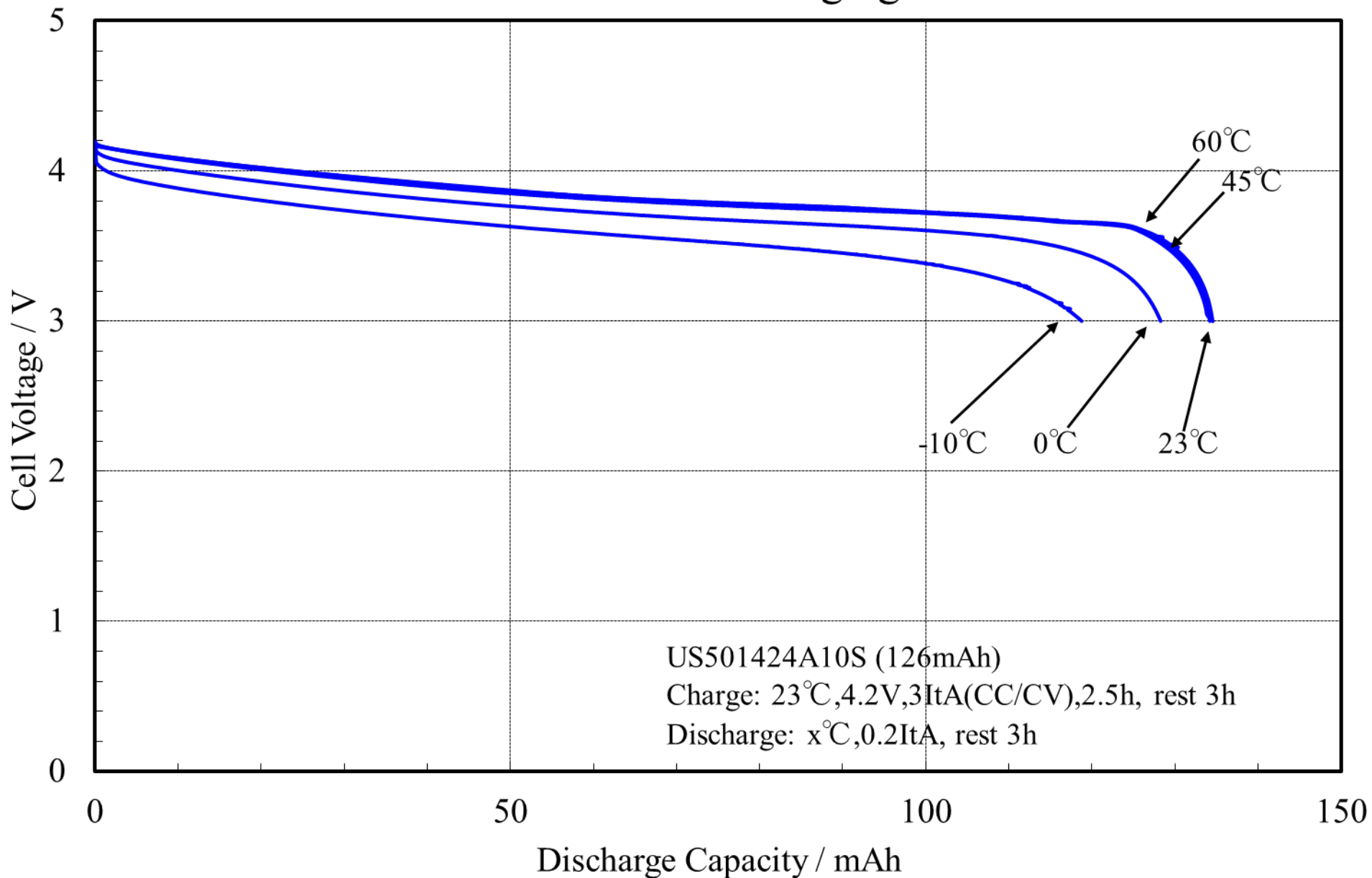
# Discharging Profile



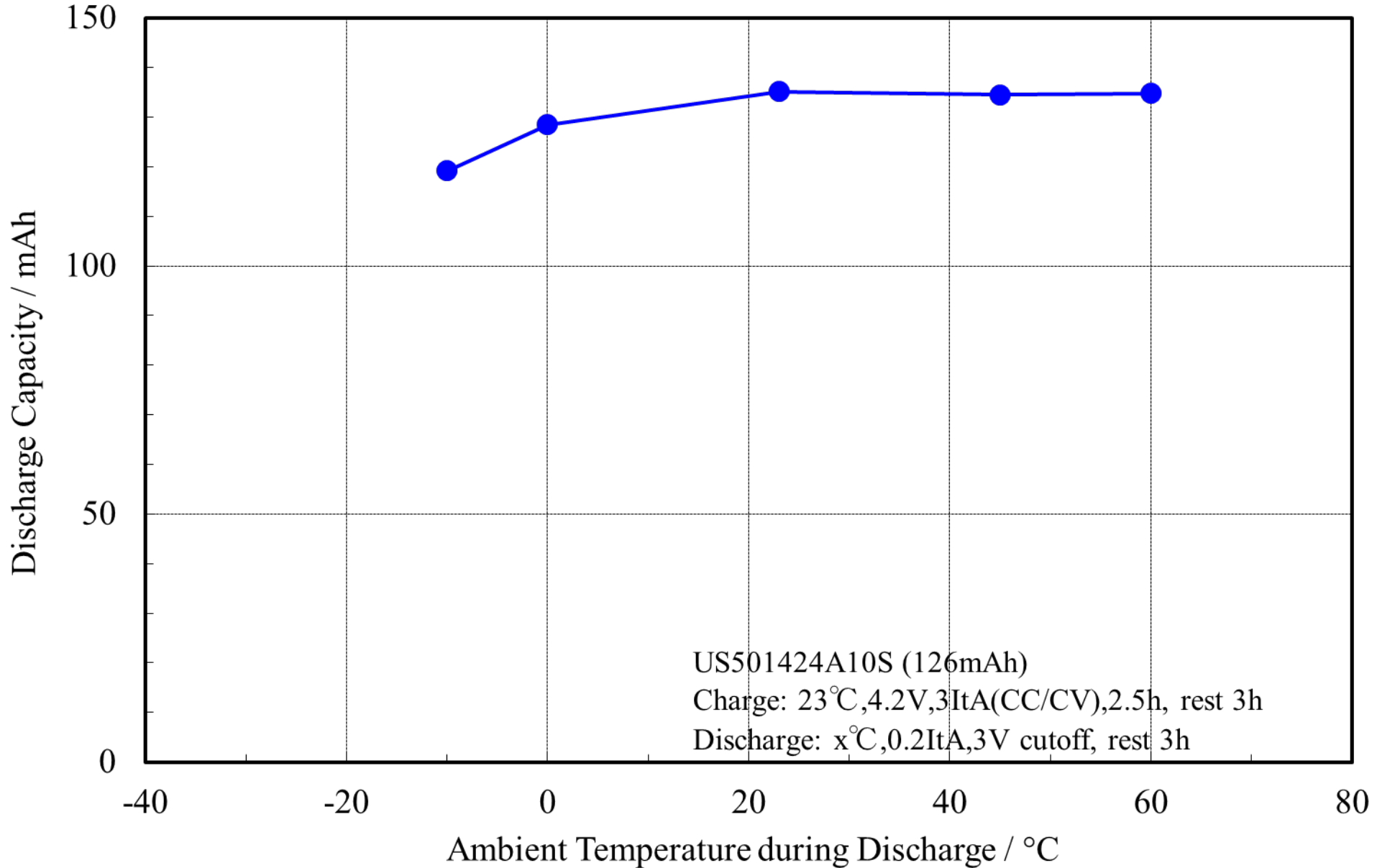
# Drain Capability



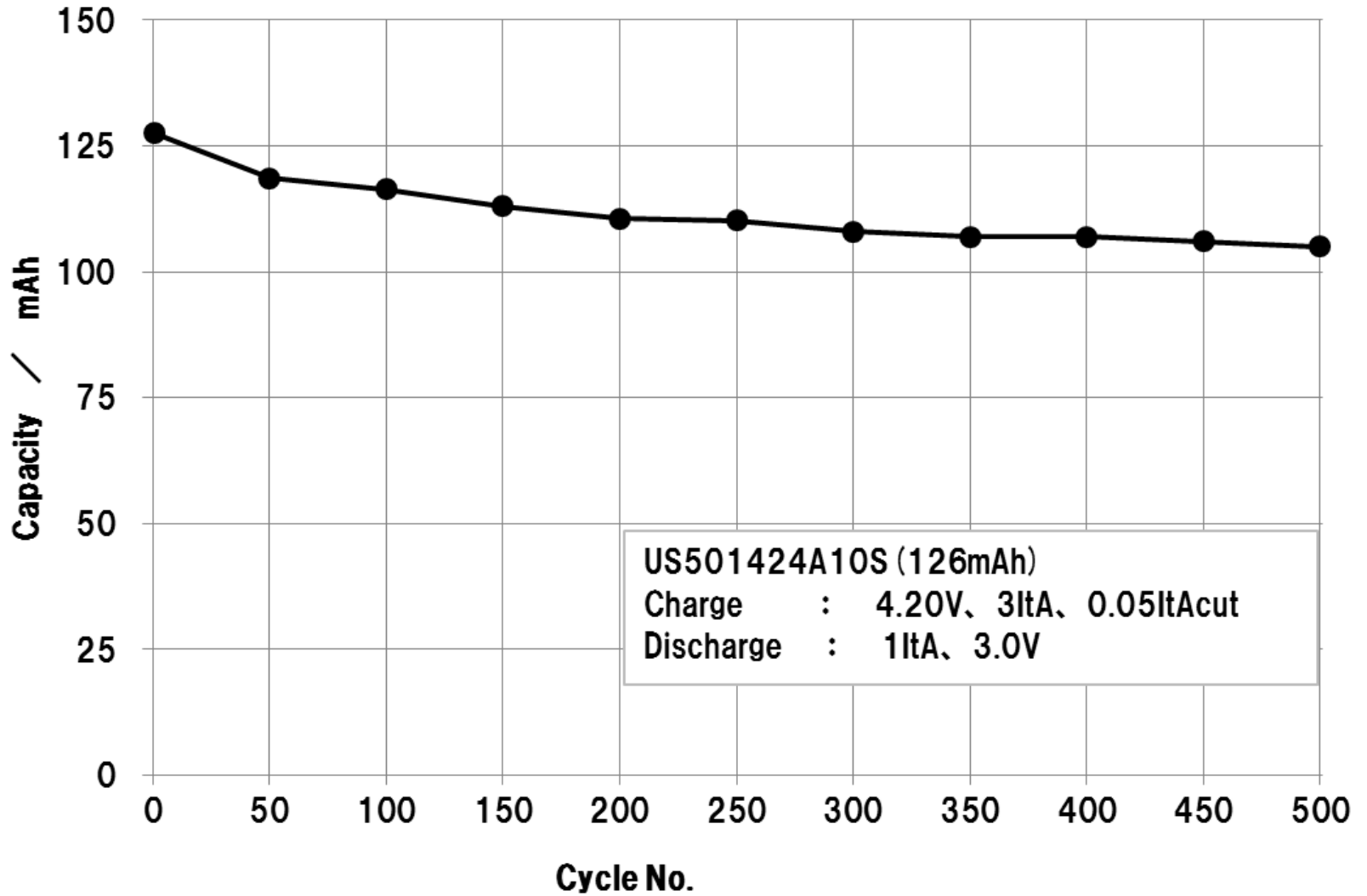
# Discharging Profile



# Discharge Temperature Performance



# Cycle Performance



# Cell Size (US501424A10S)

