

## 1. General

### **1.1 Scope**

This specification applies to type  
: US505456A10S Lithium Ion Polymer Rechargeable Battery

### **1.2 Name and Code**

**1.2.1 Cell Name** : US505456  
**1.2.2 Model Number** : US505456A10S  
**1.2.3 Code** : 49917140

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

**1.3.1 Cell Shape** : Polymer  
**1.3.2 Size** : Thickness 5.05 mm max  
Width 53.5 mm max  
Length(without Tab) 56.4 mm max  
**1.3.3 Weight** : 34.5 g (typical)

### **1.4 Reference test current**

1.0 ItA: 1880 mA

### **1.5 Safety Regulation**

Murata acquired UL1642

## 2. Performance

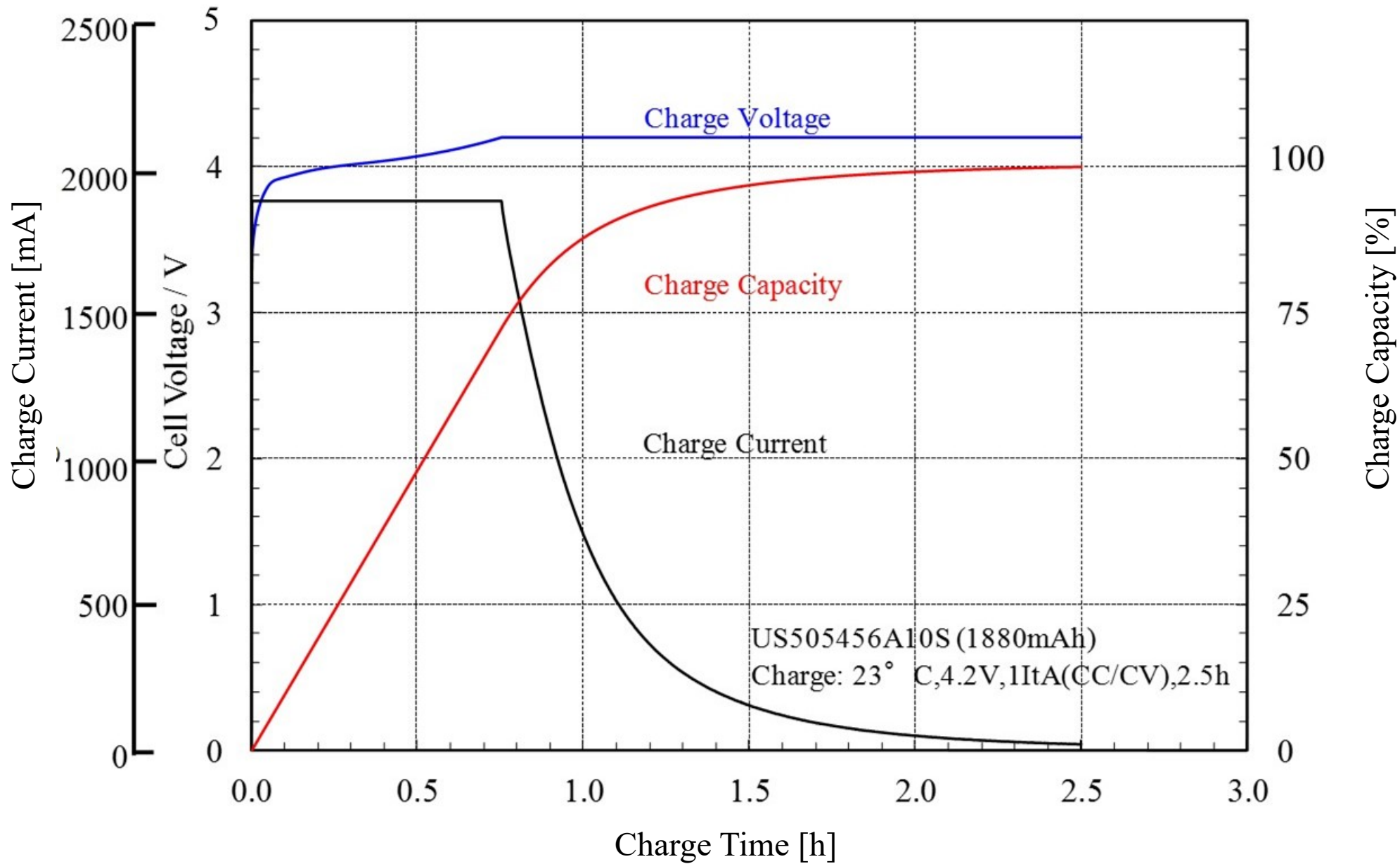
at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	1960mAh	average capacity 3.7 V (average discharge voltage)
	7.44Wh	
Rated Capacity (0.2ItA discharge)	1880mAh	minimum capacity
	7.1Wh	
Capacity at 0.5ItA	1941mAh	average capacity
	7.2Wh	
Capacity at 1.0ItA	1901mAh	average capacity
	6.83Wh	
Nominal Voltage	3.7 V	
Internal Impedance	35 mΩ	measured by AC1 kHz
Cycle Performance	80% of Initial capacity at 500 cycles	0.5 ItA discharge rate

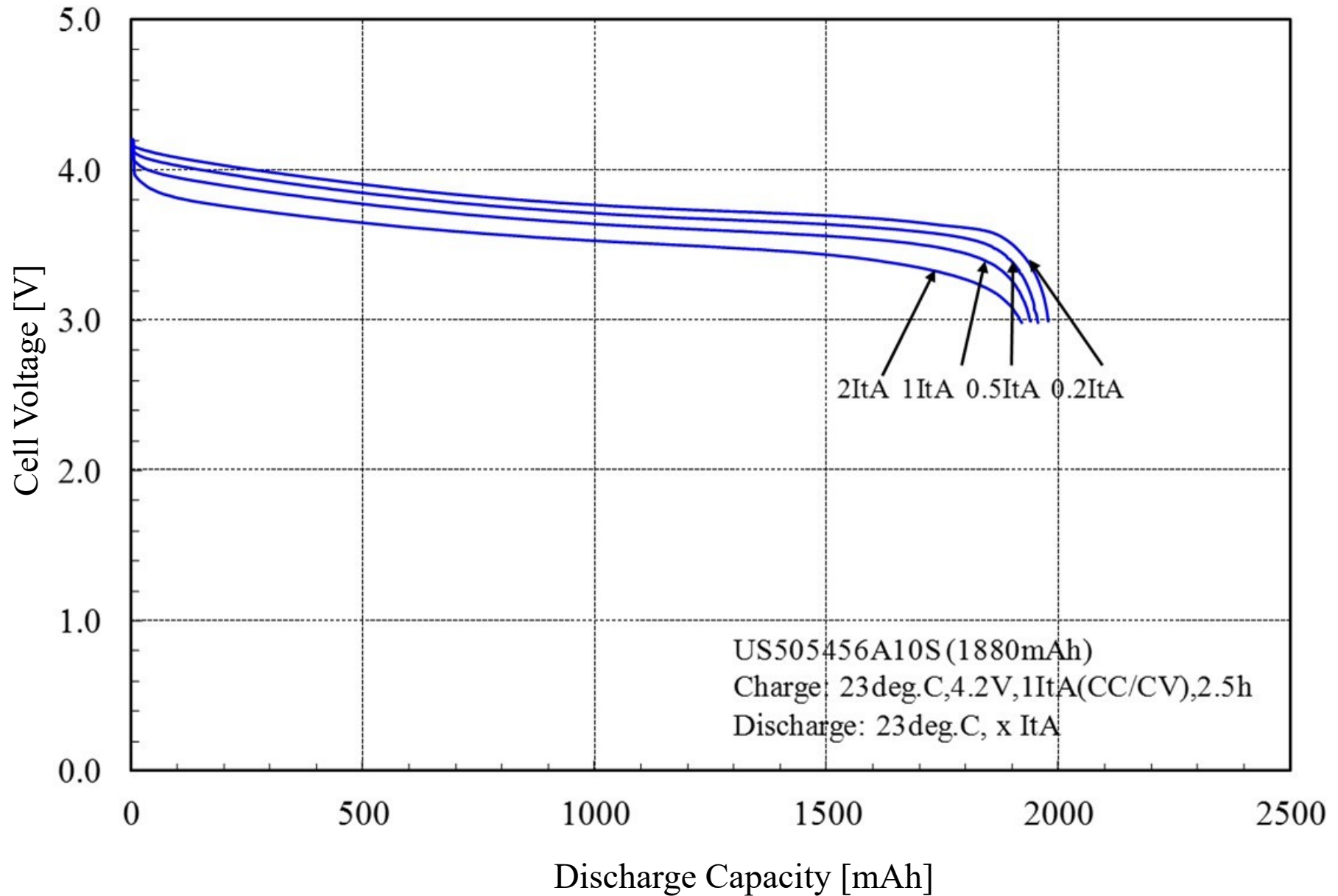
### \*Standard Charge Condition

Charge Method : constant current / constant voltage  
Charge Up Voltage : 4.2 ± 0.05 V  
Charge Current : 1.88 A  
Charge Time : 2.5hours charge  
Ambiance Temperature: 23 °C

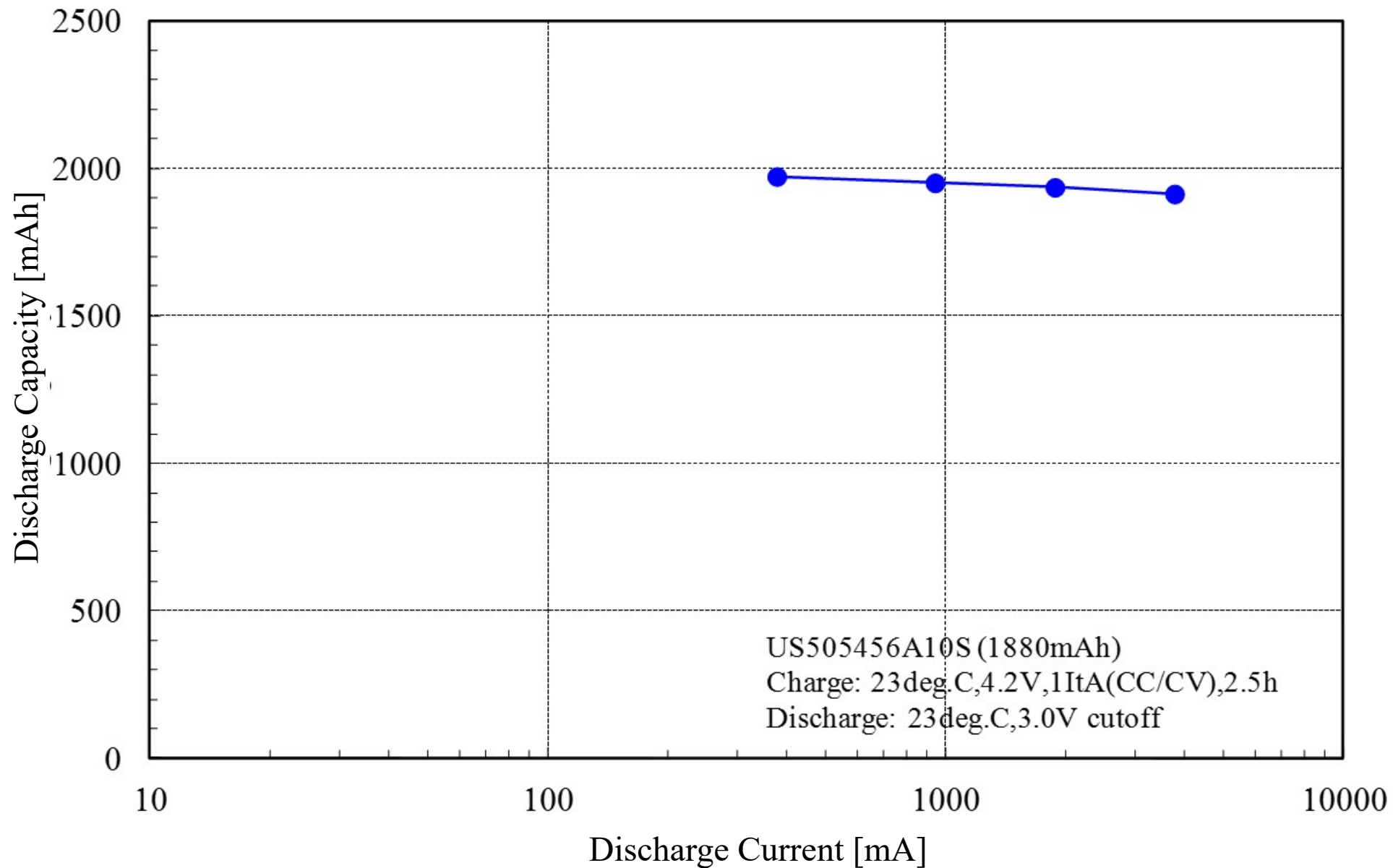
# Charging Profile



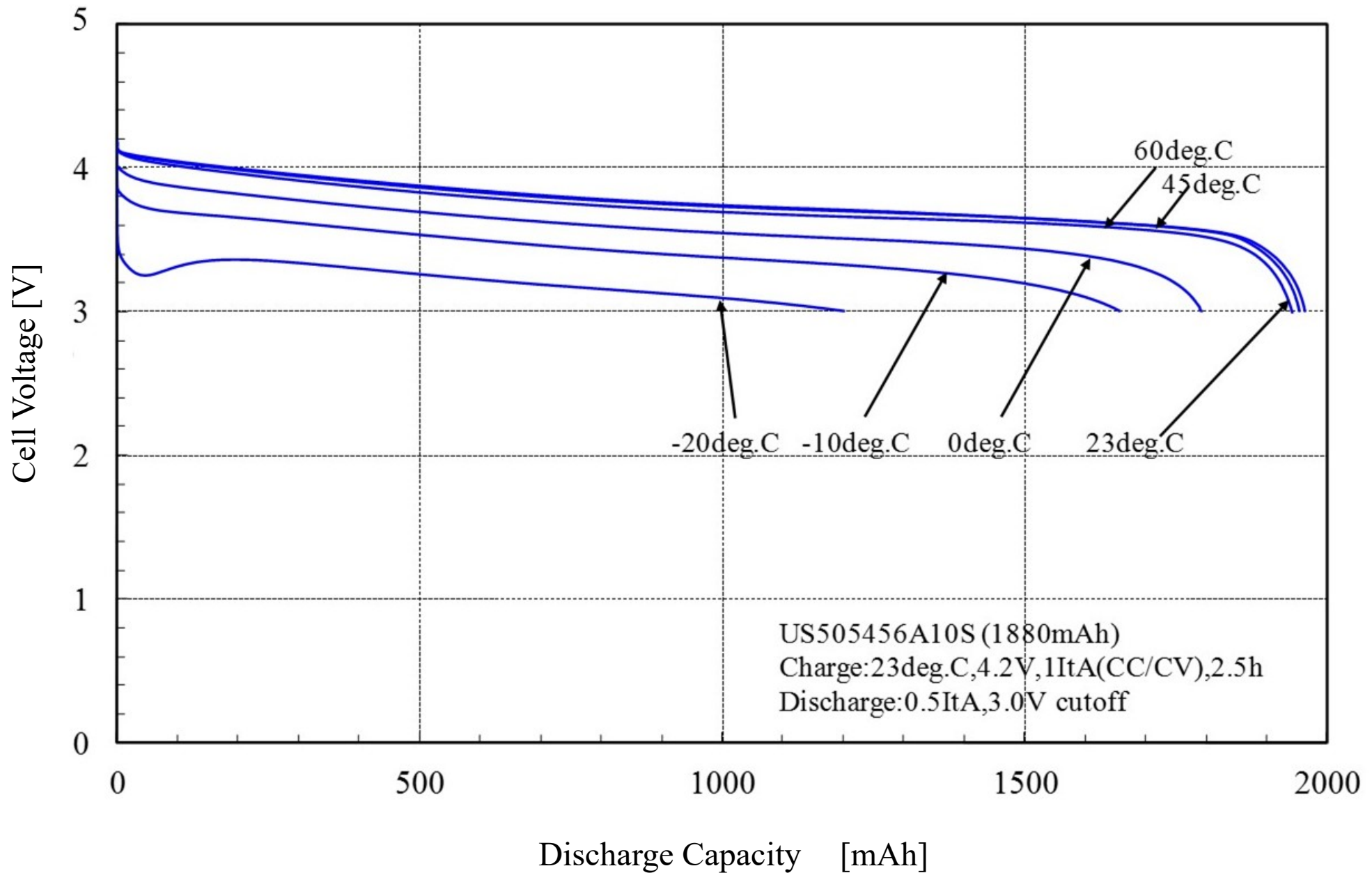
# Discharging Profile



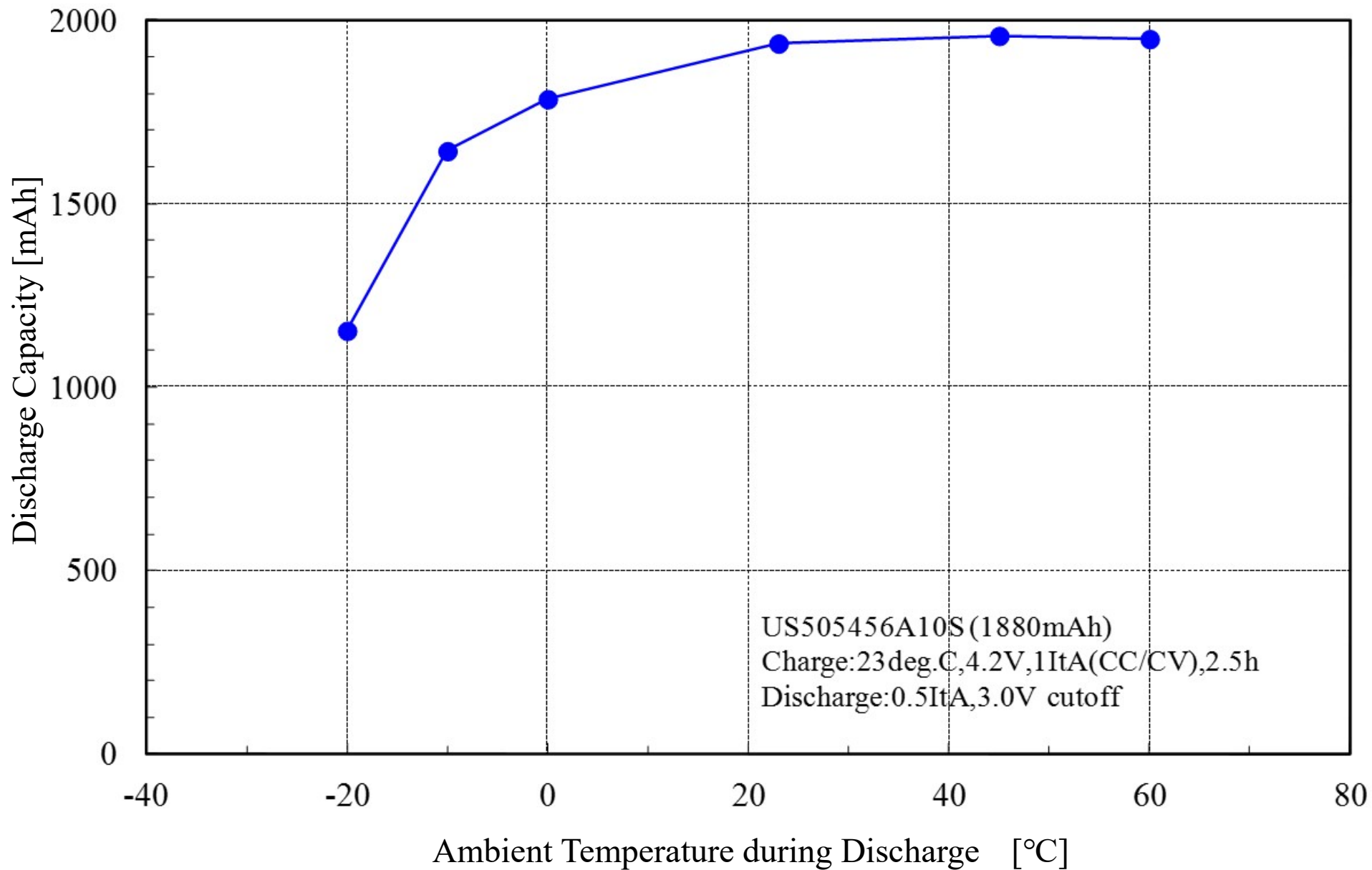
## Drain Capability



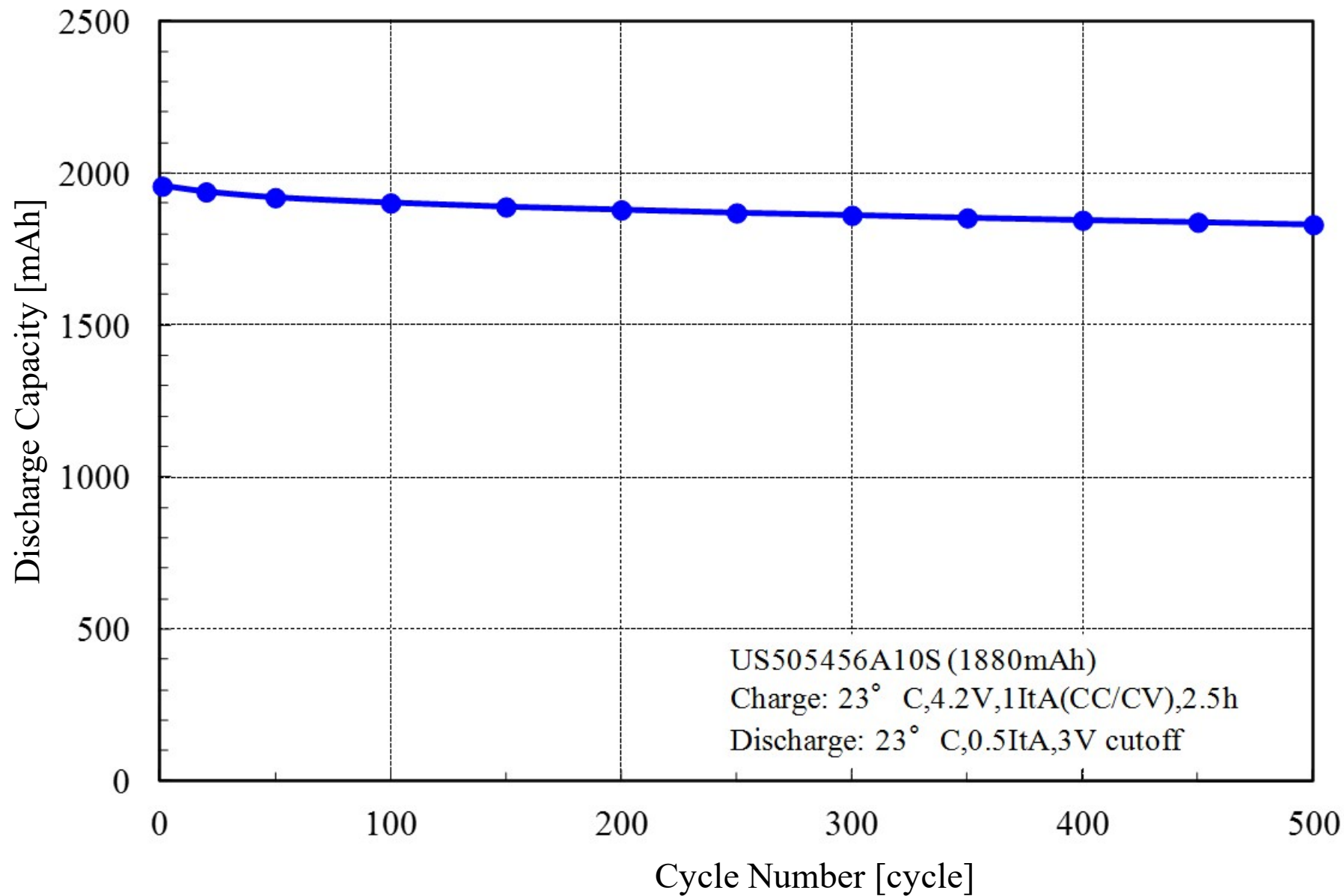
# Discharging Profile



## Discharge Temperature Performance



## Cycle Performance



# Cell Size (US505456A10S)

