

## 1. General

### 1.1 Scope

This specification applies to type

: US80285A10S Lithium Ion Polymer Rechargeable Battery

### 1.2 Name and Code

**1.2.1 Cell Name** : US80285

**1.2.2 Model Number** : US80285A10S

**1.2.3 Code** : 49941961

### 1.3 Cell Shape and Weight

**1.3.1 Cell Shape** : Polymer

**1.3.2 Size** : Thickness 7.63 mm max  
Width 7.93 mm max  
Length(without Tab) 28.5 mm max

**1.3.3 Weight** : 2.6 g (typical)

### 1.4 Reference test current

1.0 ItA: 121 mA

### 1.5 Safety Regulation

Murata acquired UL1642

## 2. Performance

at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	130mAh	average capacity 3.8 V (average discharge voltage)
	0.49 Wh	
Rated Capacity (0.2ItA discharge)	121mAh	minimum capacity
	0.45 Wh	
Capacity at 0.5ItA	128mAh	average capacity
	0.48 Wh	
Capacity at 1.0ItA	127mAh	average capacity
	0.47 Wh	
Nominal Voltage	3.7 V	
Internal Impedance	150 mΩ	measured by AC1 kHz
Cycle Performance	80% of Initial capacity at 500 cycles	1ItA discharge rate

\*Standard Charge Condition

Charge Method : constant current / constant voltage

Charge Up Voltage : 4.2 ± 0.05 V

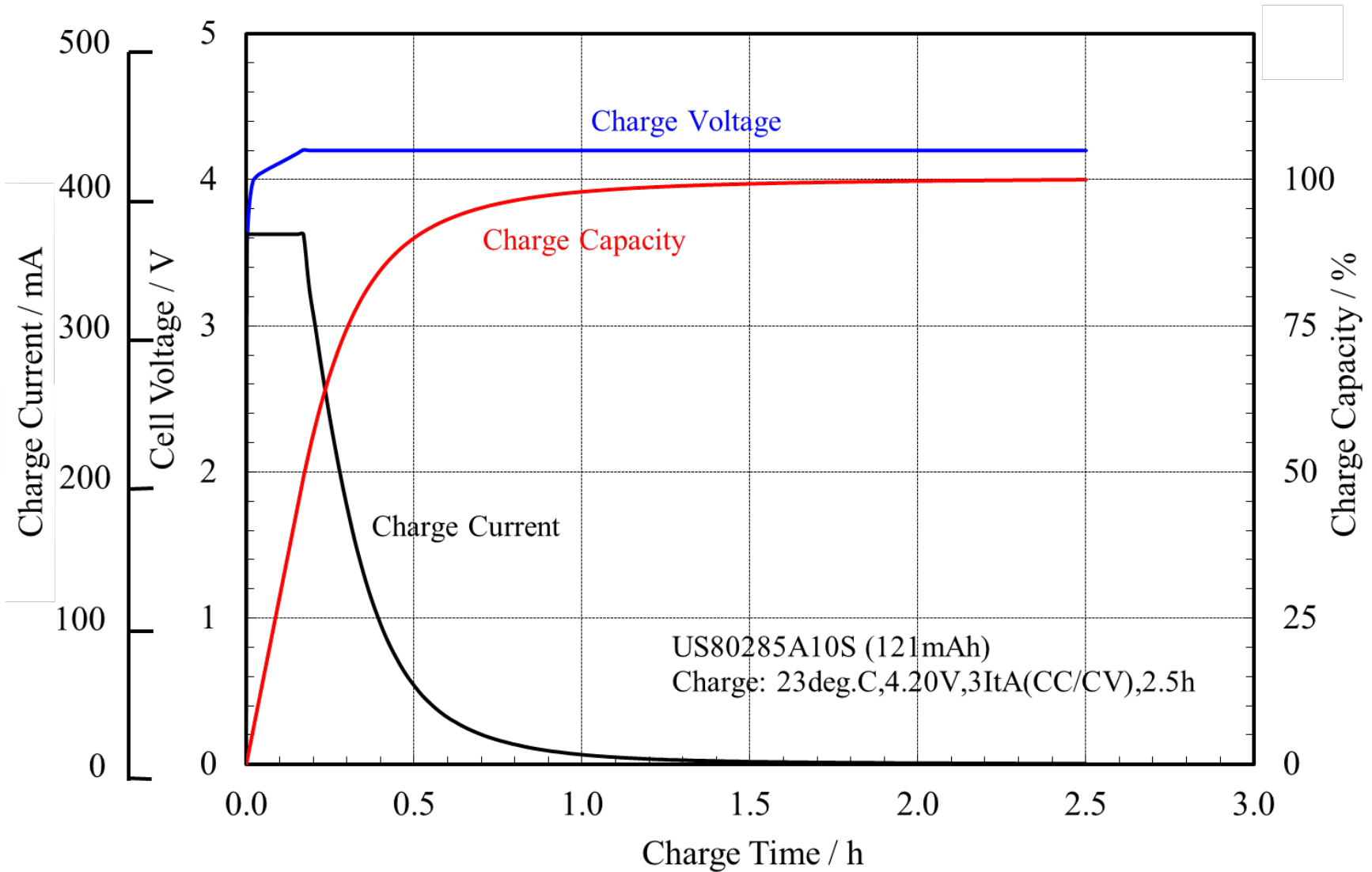
Charge Current : 0.363 A

Charge Time : 2.5 h

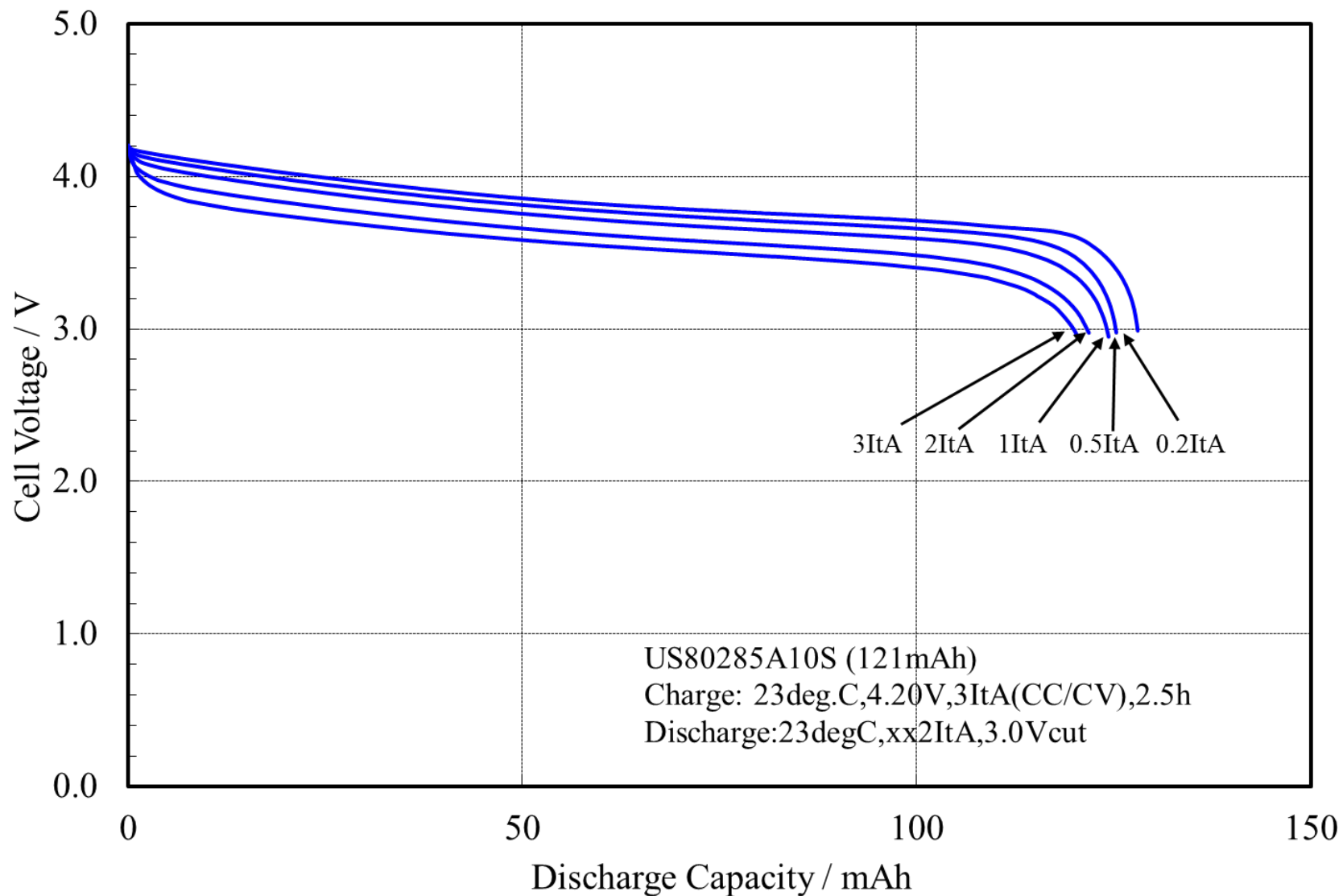
Ambiance Temperature : 23 °C

\*Maximum Charge Current : 0.387 A

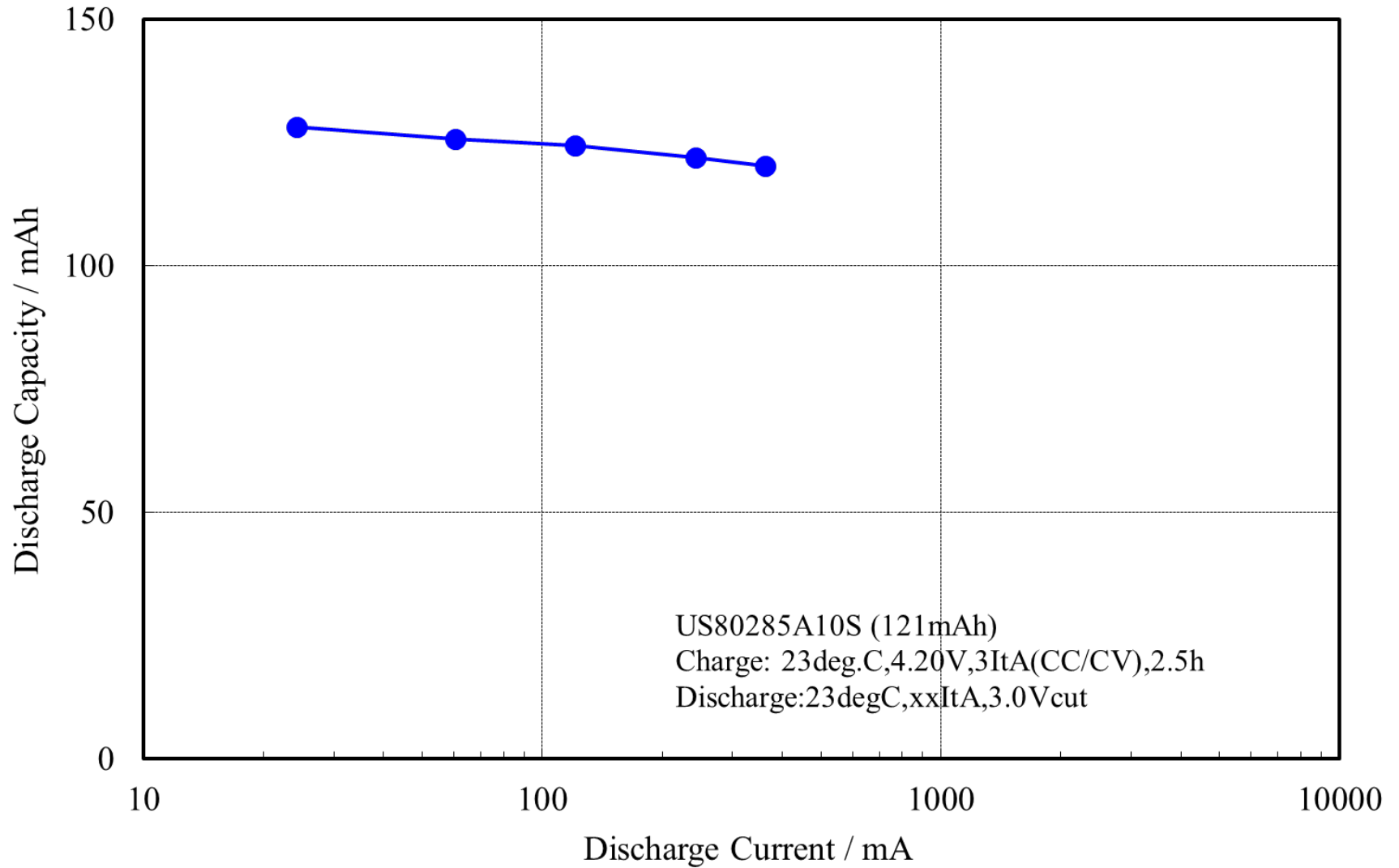
# Charging Profile



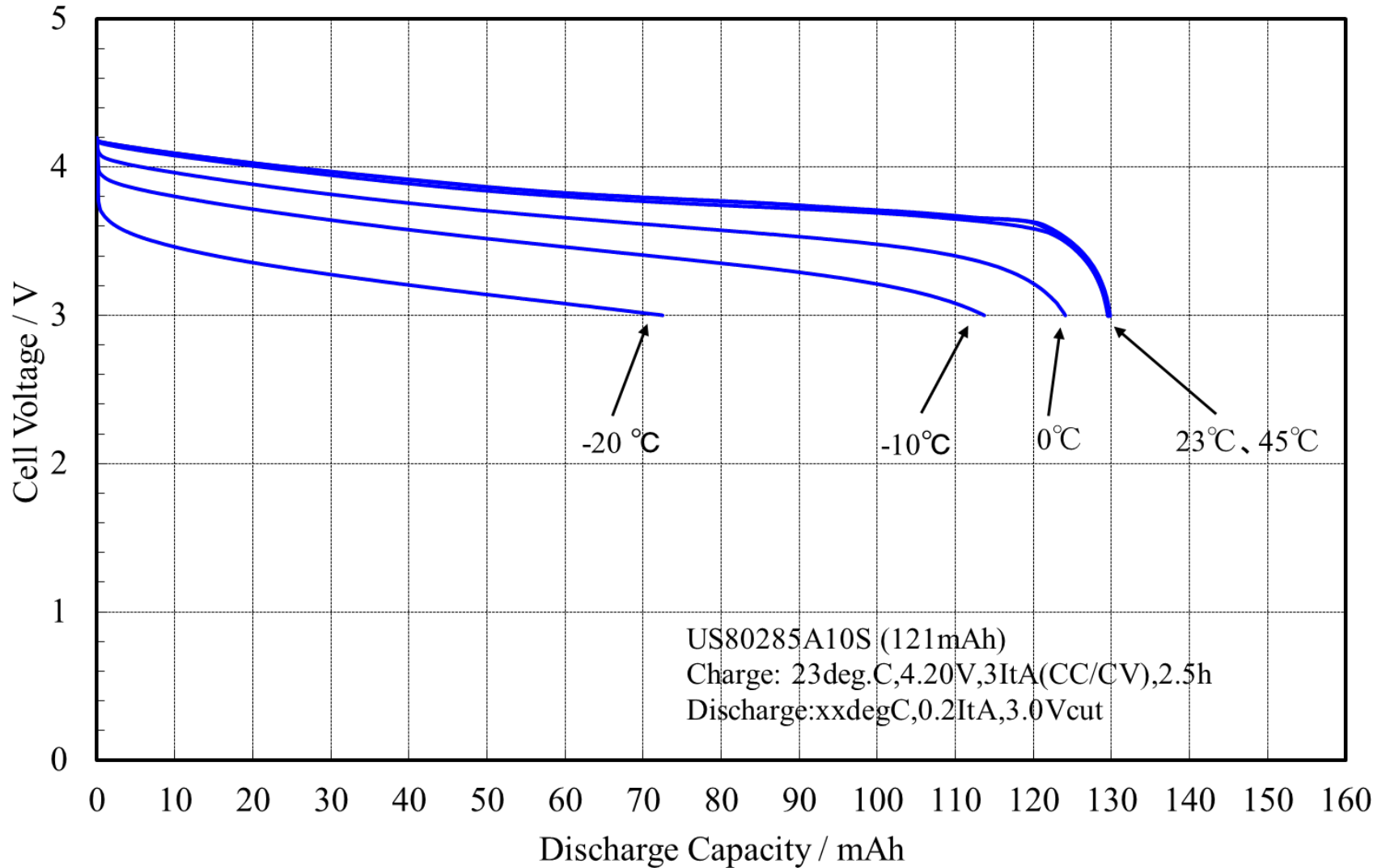
# Discharging Profile



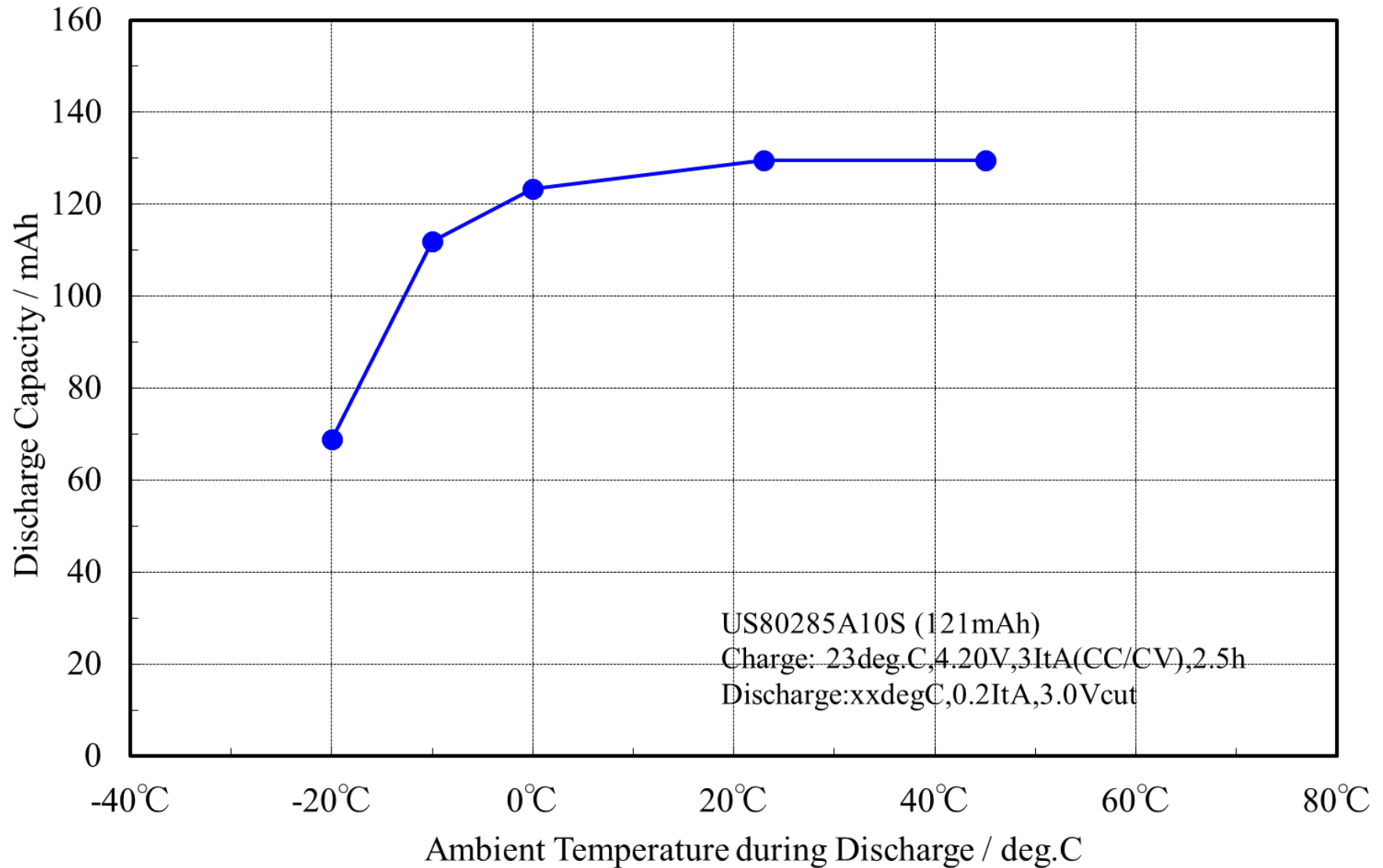
# Drain Capability



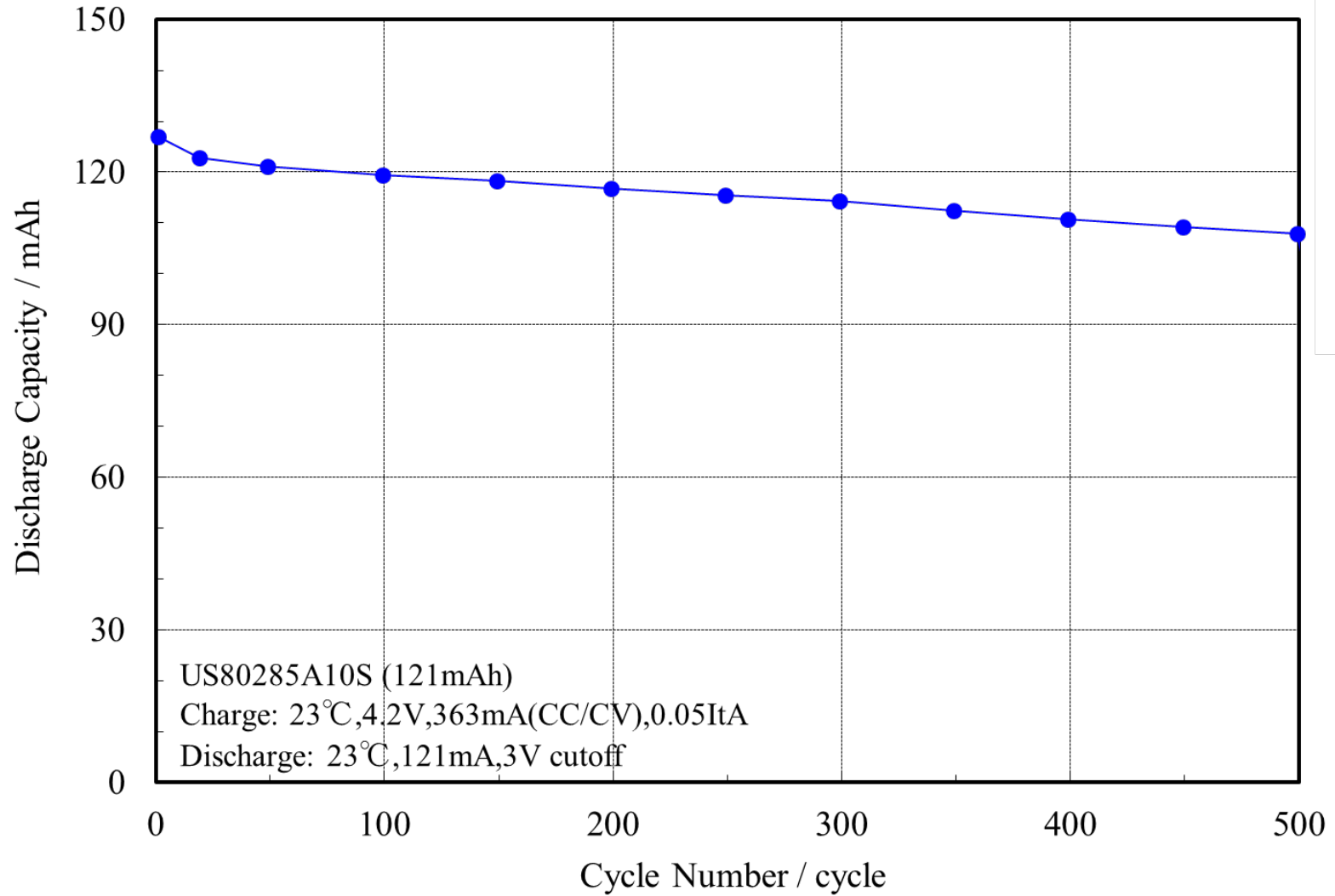
# Discharging Profile



# Discharge Temperature Performance



# Cycle Performance



# Cell Size ( US80285A10S)

After terrace forming

