

## 1. General

### 1.1 Scope

This specification applies to type

: US525077BH7P Lithium Ion Polymer Rechargeable Battery

### 1.2 Name and Code

1.2.1 Cell Name : US525077BH7

1.2.2 Model Number : US525077BH7P

1.2.3 Code : 49943590

: 49943598( SOC less than 30%)

### 1.3 Cell Shape and Weight

1.3.1 Cell Shape : Polymer

1.3.2 Size : Thickness 5.17 mm max  
Width 49.28 mm max  
Length(without Tab) 76.45 mm max

1.3.3 Weight : 48.0 g (typical)

### 1.4 Reference test current

1.0 ItA: 3290 mA

### 1.5 Safety Regulation

Murata acquired UL1642

## 2. Performance

at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	3210mAh	average capacity 3.80 V (average discharge voltage)
	12.35 Wh	
Rated Capacity (0.2ItA discharge)	3120mAh	minimum capacity
	11.91 Wh	
Capacity at 0.5ItA	3021mAh	average capacity
	11.24Wh	
Capacity at 1.0ItA	2843mAh	average capacity
	10.27 Wh	
Nominal Voltage	3.80 V	
Internal Impedance	26 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

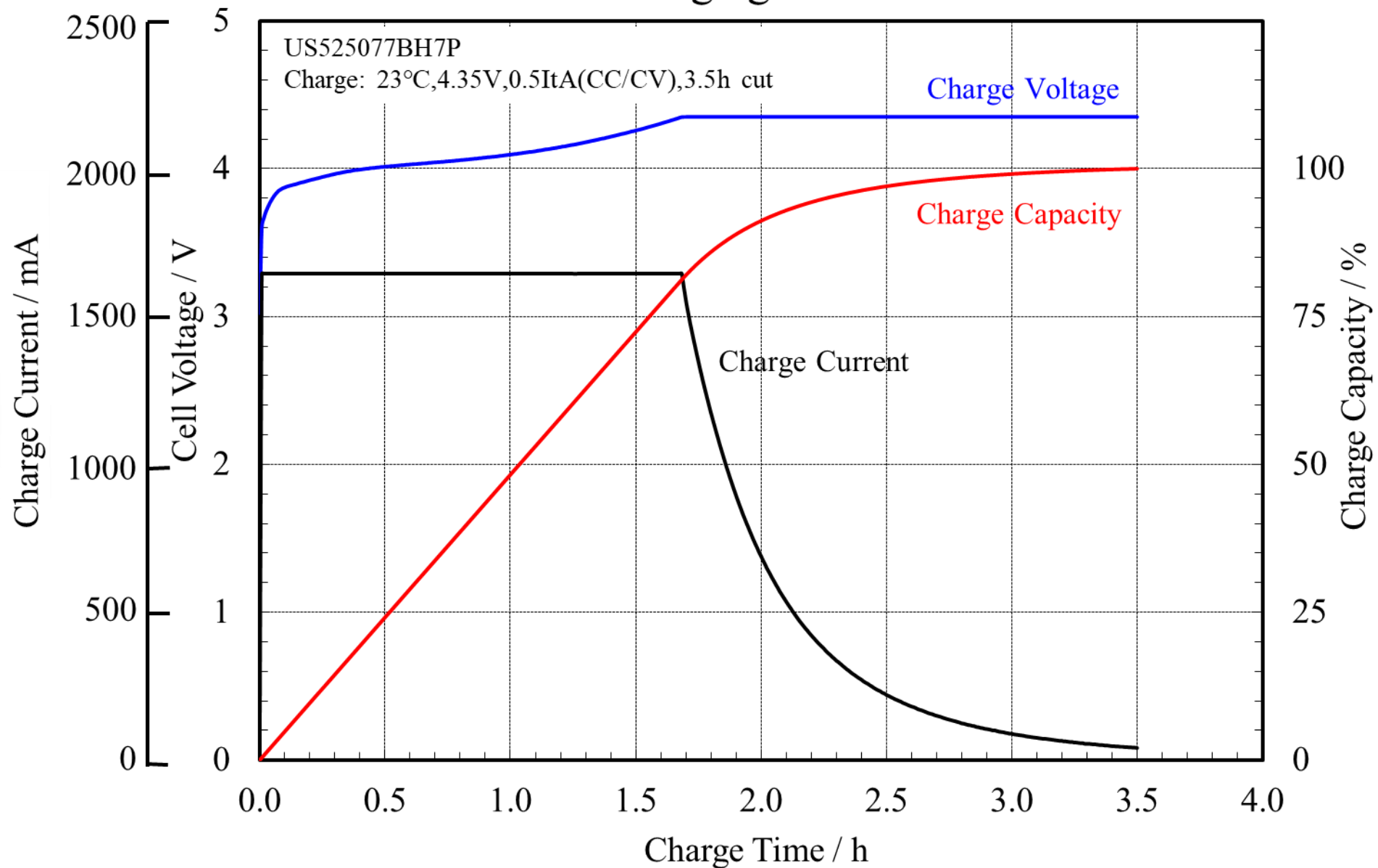
Charge Up Voltage : 4.35 ± 0.05 V

Charge Current : 1.645 A

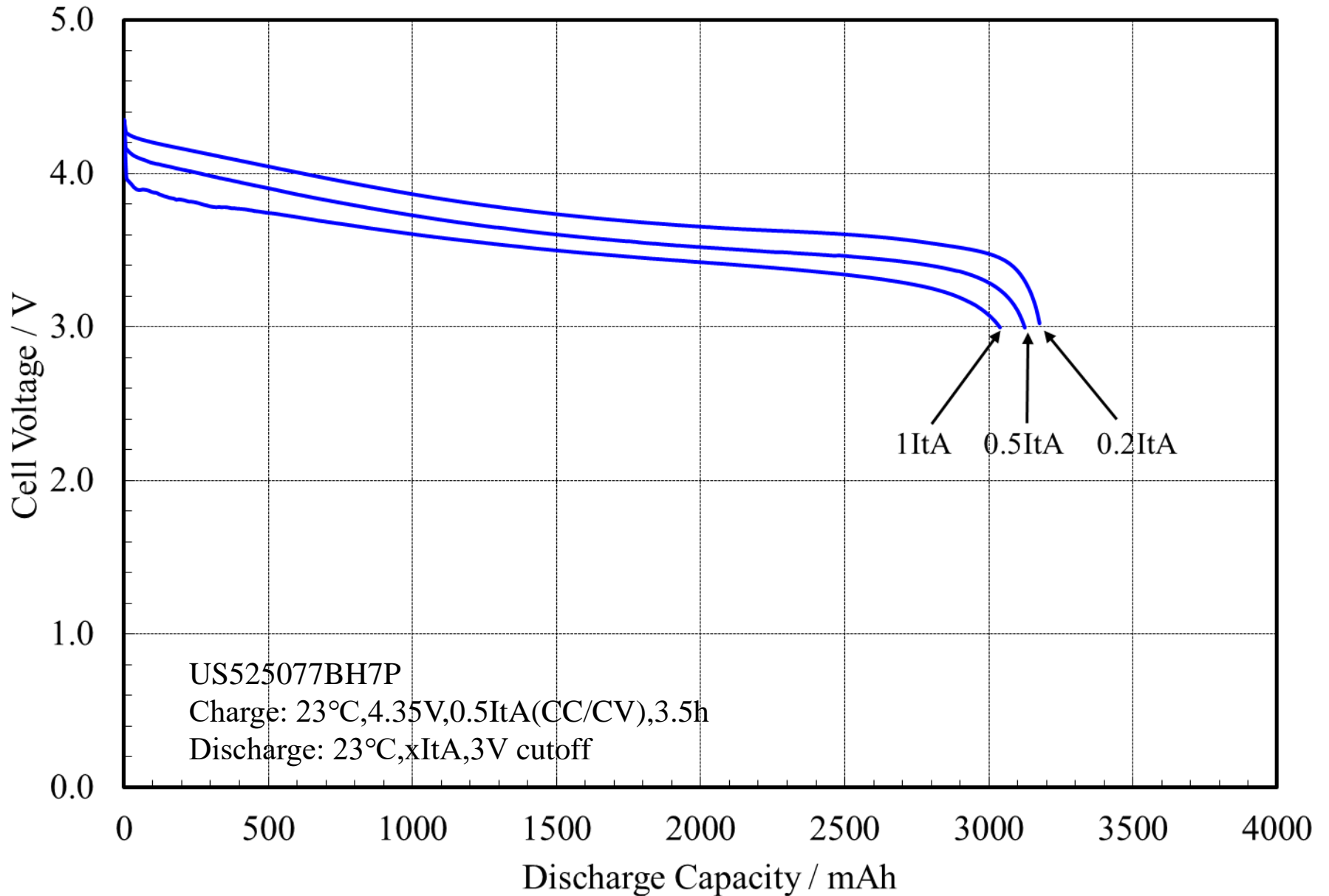
Charge Cut off : 3.5h

Ambiance  
Temperature : 23 °C

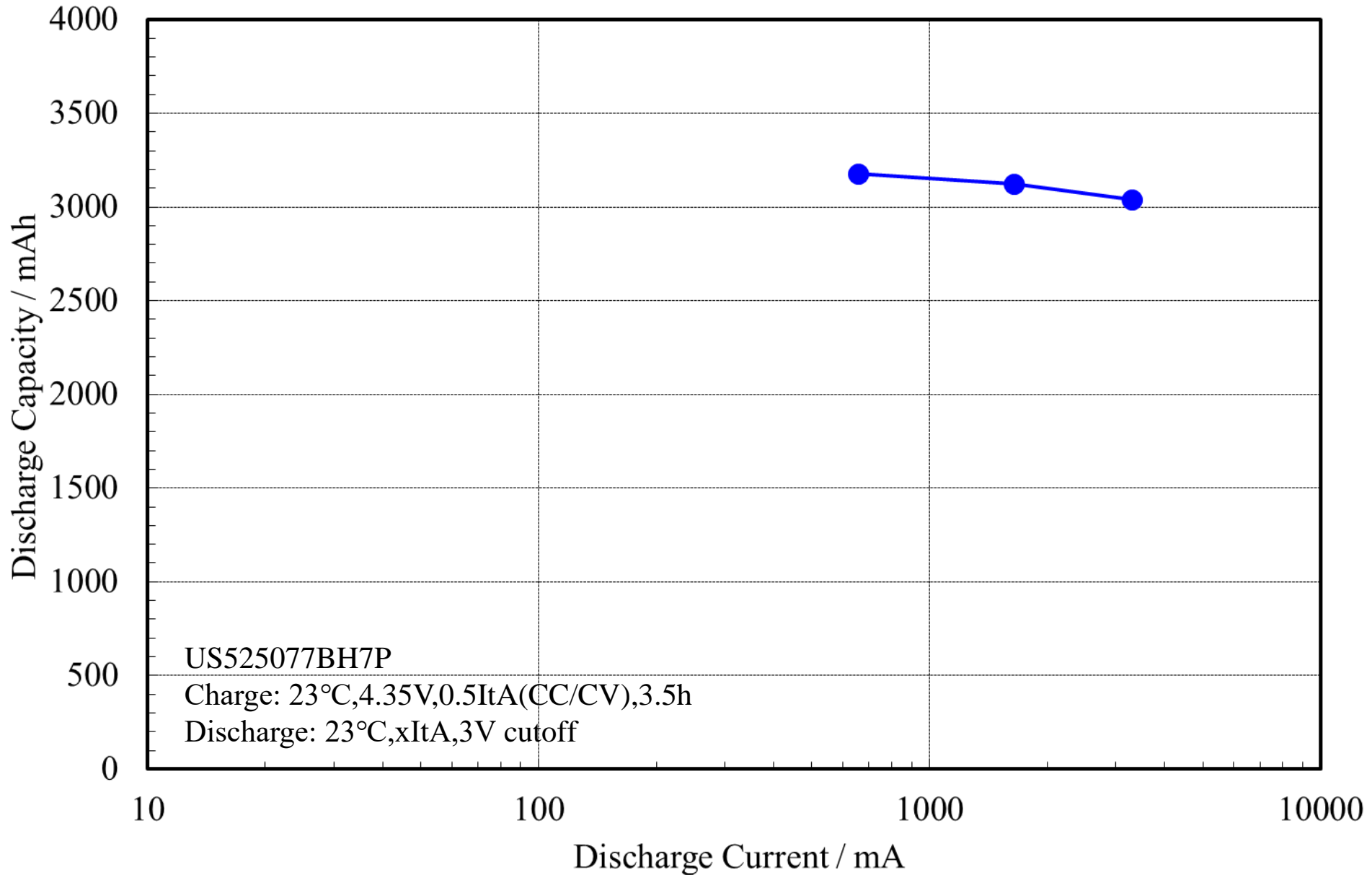
# Charging Profile



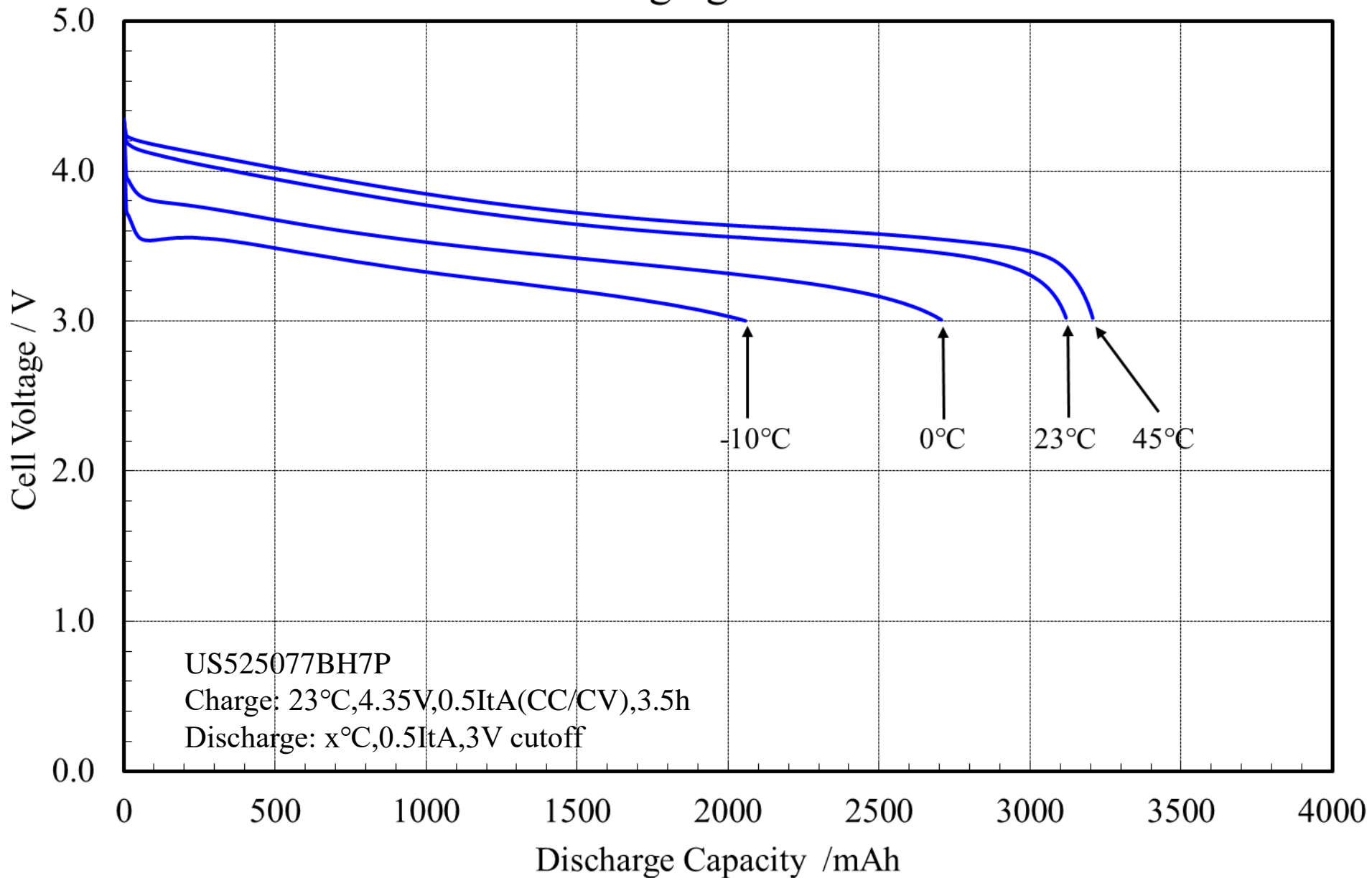
# Discharging Profile



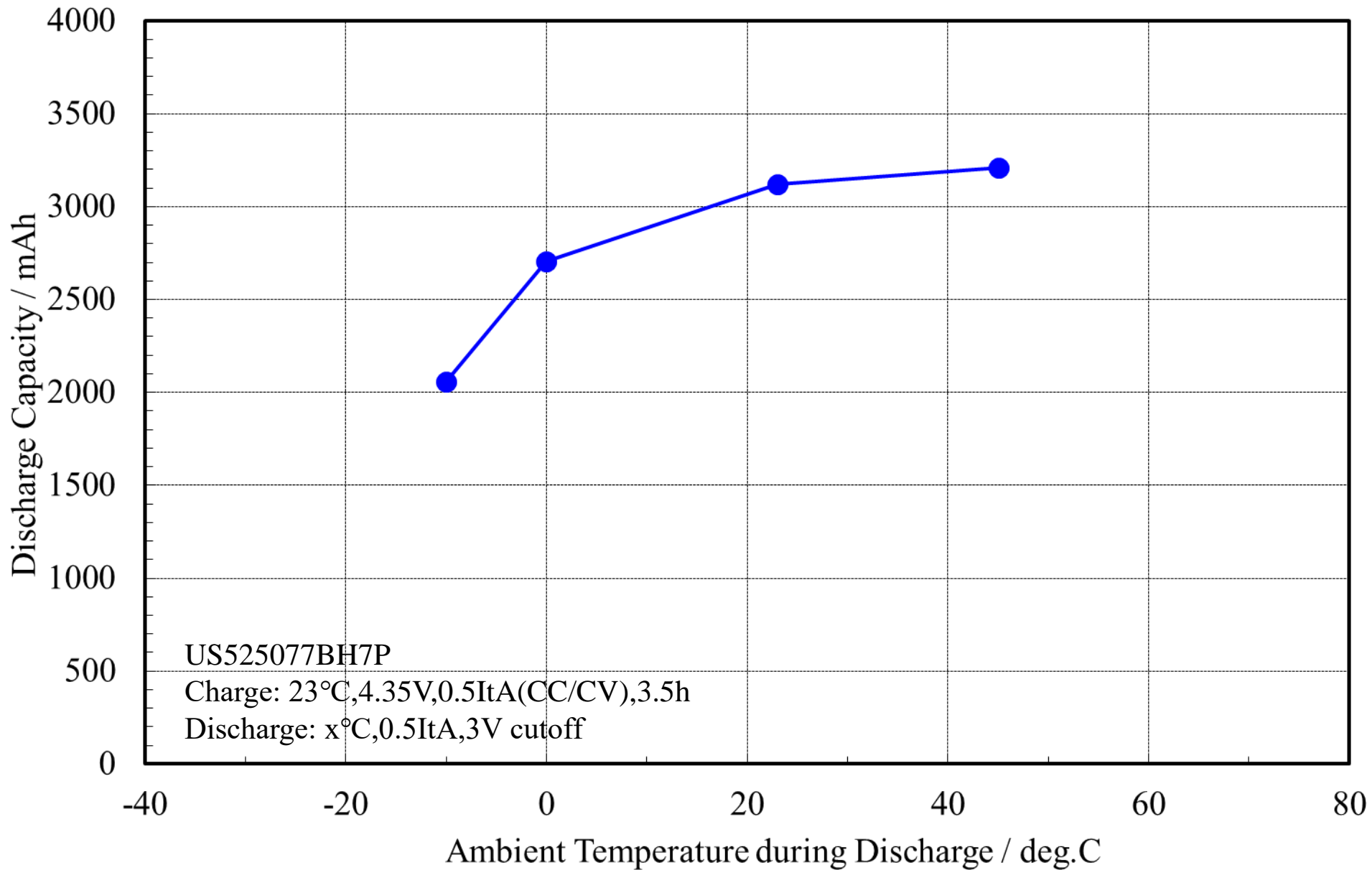
# Drain Capability



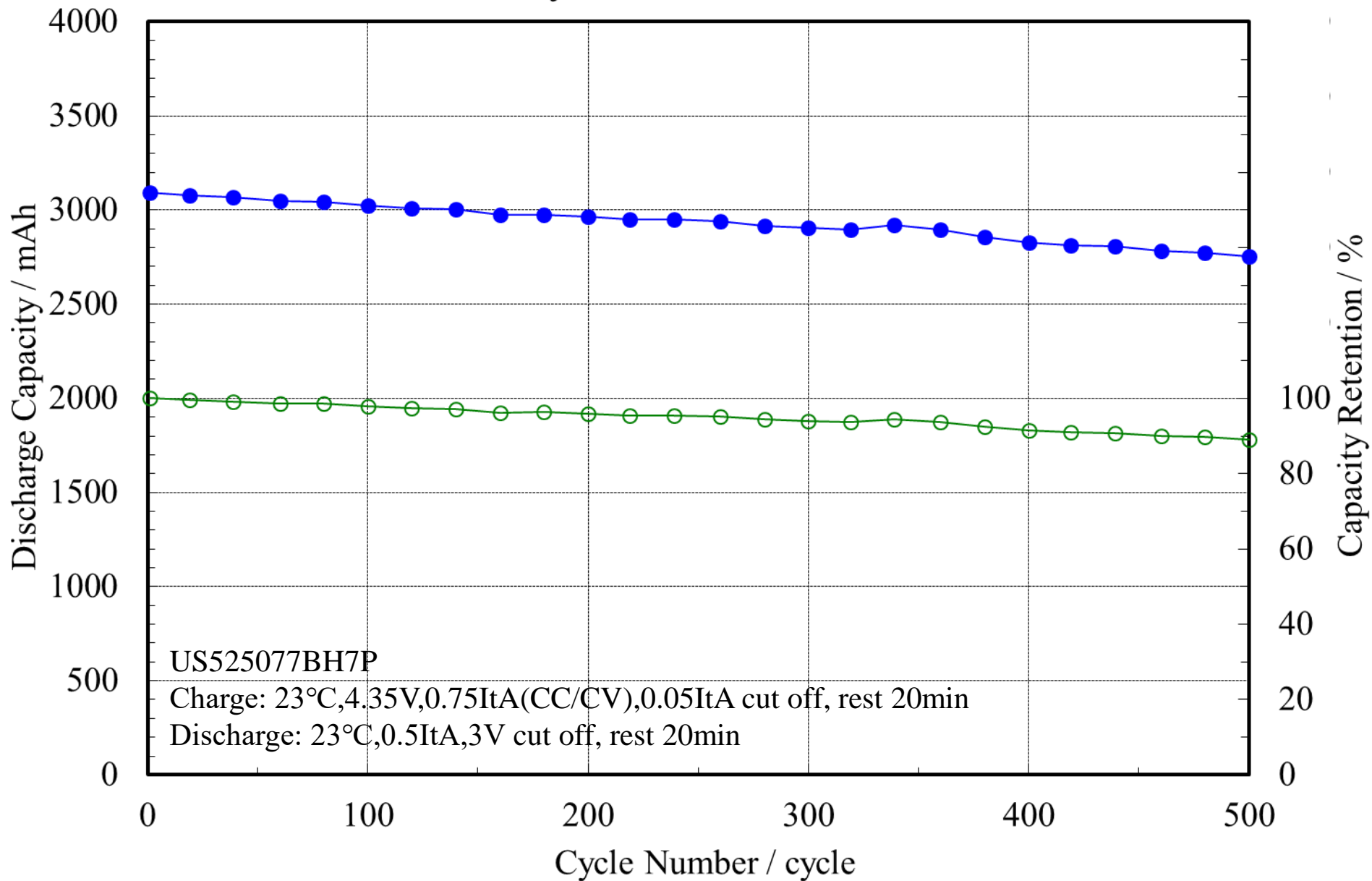
# Discharging Profile



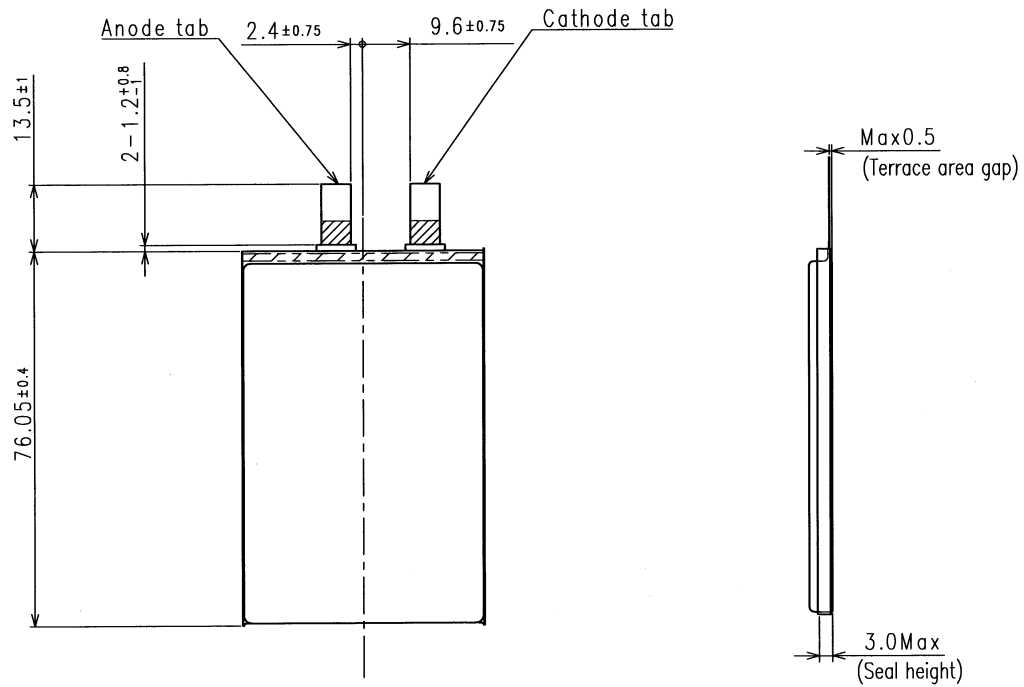
# Discharge Temperature Performance



# Cycle Performance



# Cell Size ( US525077BH7P)



Same opposite face

