

1. General

1.1 Scope

This specification applies to type

: US446770H7 Lithium Ion Polymer Rechargeable Battery

1.2 Name and Code

1.2.1 Cell Name : US446770H7

1.2.2 Model Number : US446770H7

1.2.3 Code : 49943101

: 49943222 (SOC30% less than)

1.3 Cell Shape and Weight

1.3.1 Cell Shape : Polymer

1.3.2 Size : Thickness 4.4 mm max
Width 66.55 mm max
Length(without Tab) 69.1 mm max

1.3.3 Weight : 52.8 g (typical)

1.4 Reference test current

1.0 ItA: 3170 mA

1.5 Safety Regulation

Murata acquired UL1642

2. Performance

at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	3240mAh	average capacity 3.80 V (average discharge voltage)
	12.31Wh	
Rated Capacity (0.2ItA discharge)	3170mAh	minimum capacity
	12.10Wh	
Capacity at 0.5ItA	3065mAh	average capacity
	11.36Wh	
Capacity at 1.0ItA	2910mAh	average capacity
	10.48Wh	
Nominal Voltage	3.8 V	
Internal Impedance	30	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

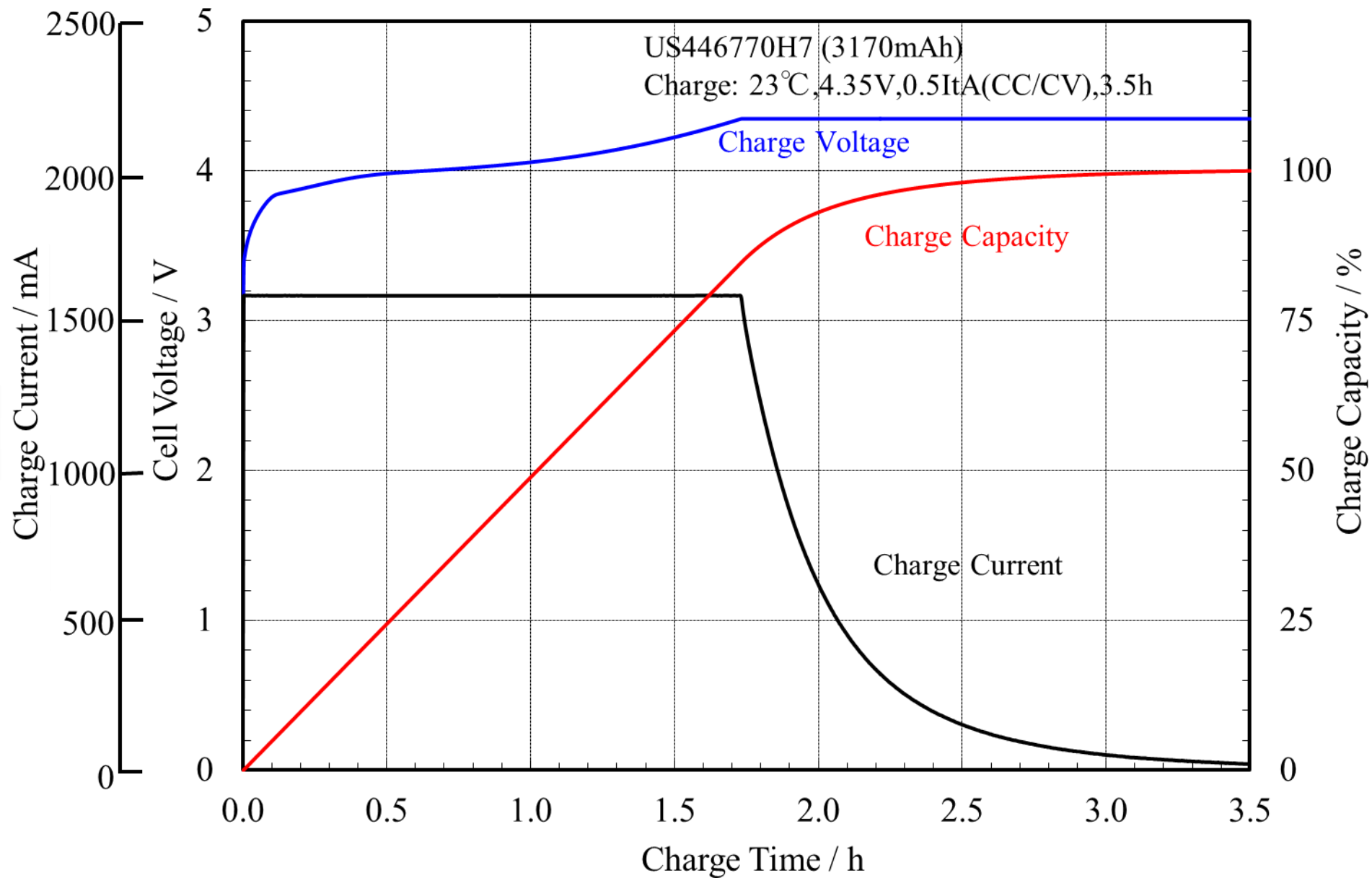
Charge Up Voltage : 4.35 ± 0.05 V

Charge Current : 1.585 A

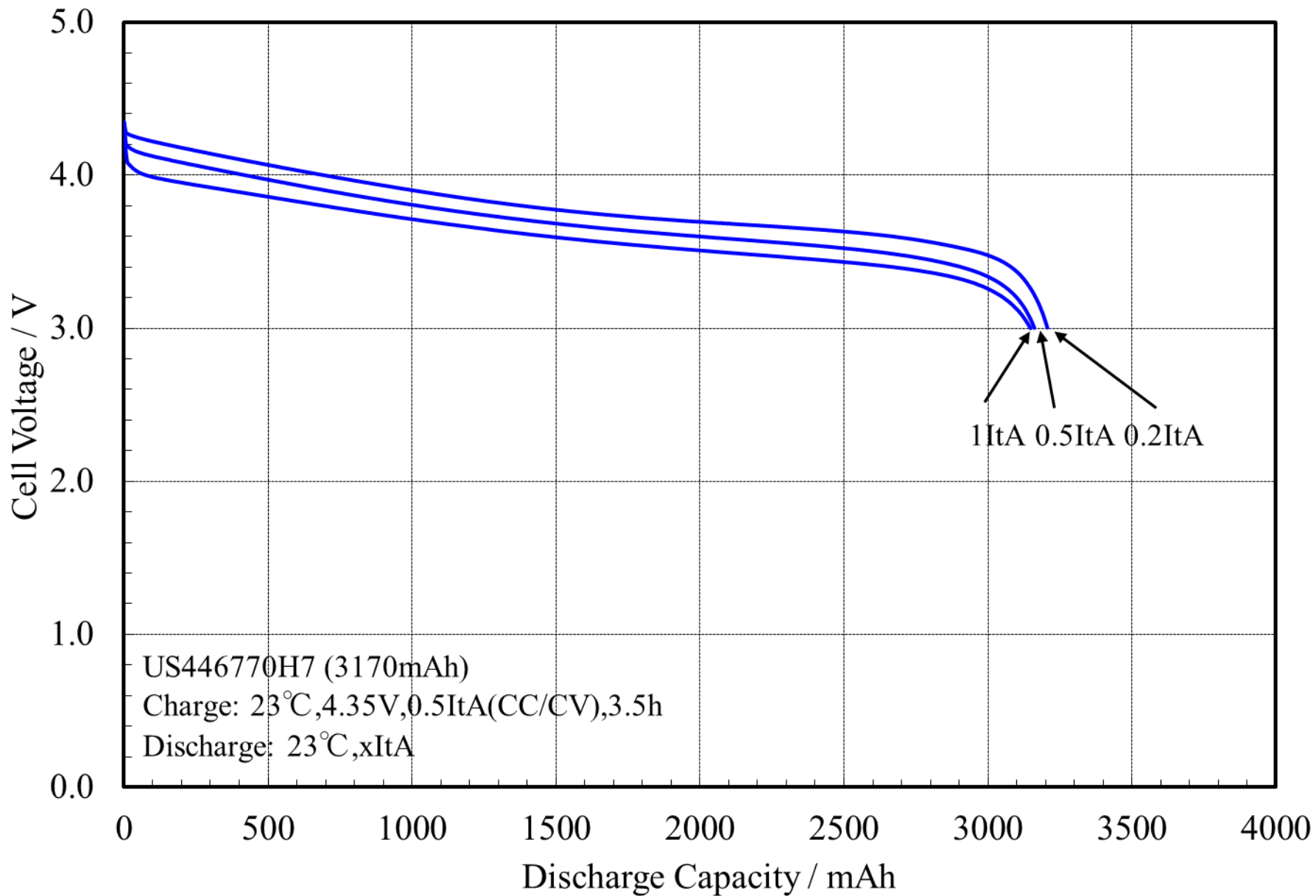
Charge Time : 3.5h

Ambiance Temperature: 23°C

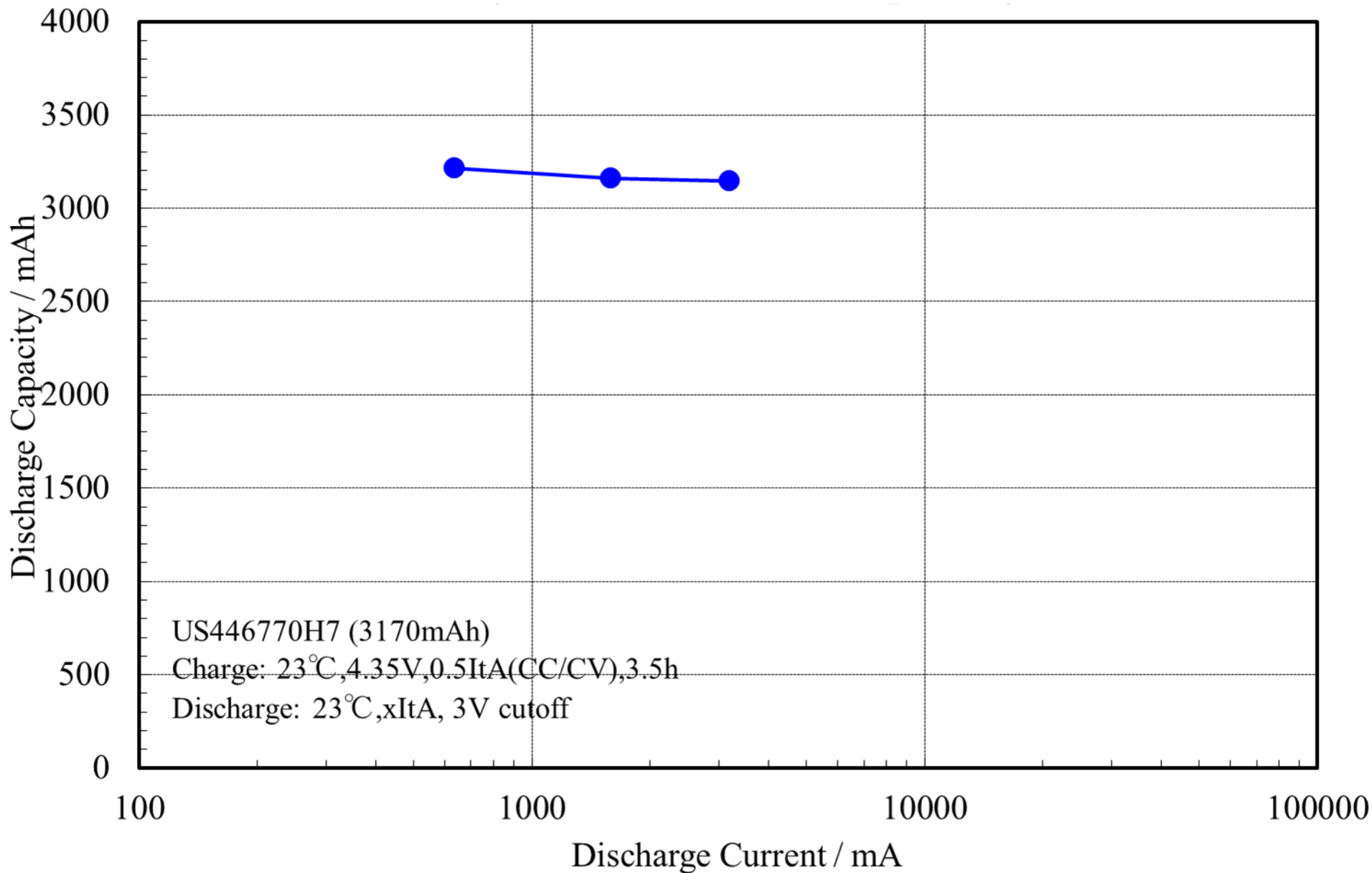
Charging Profile



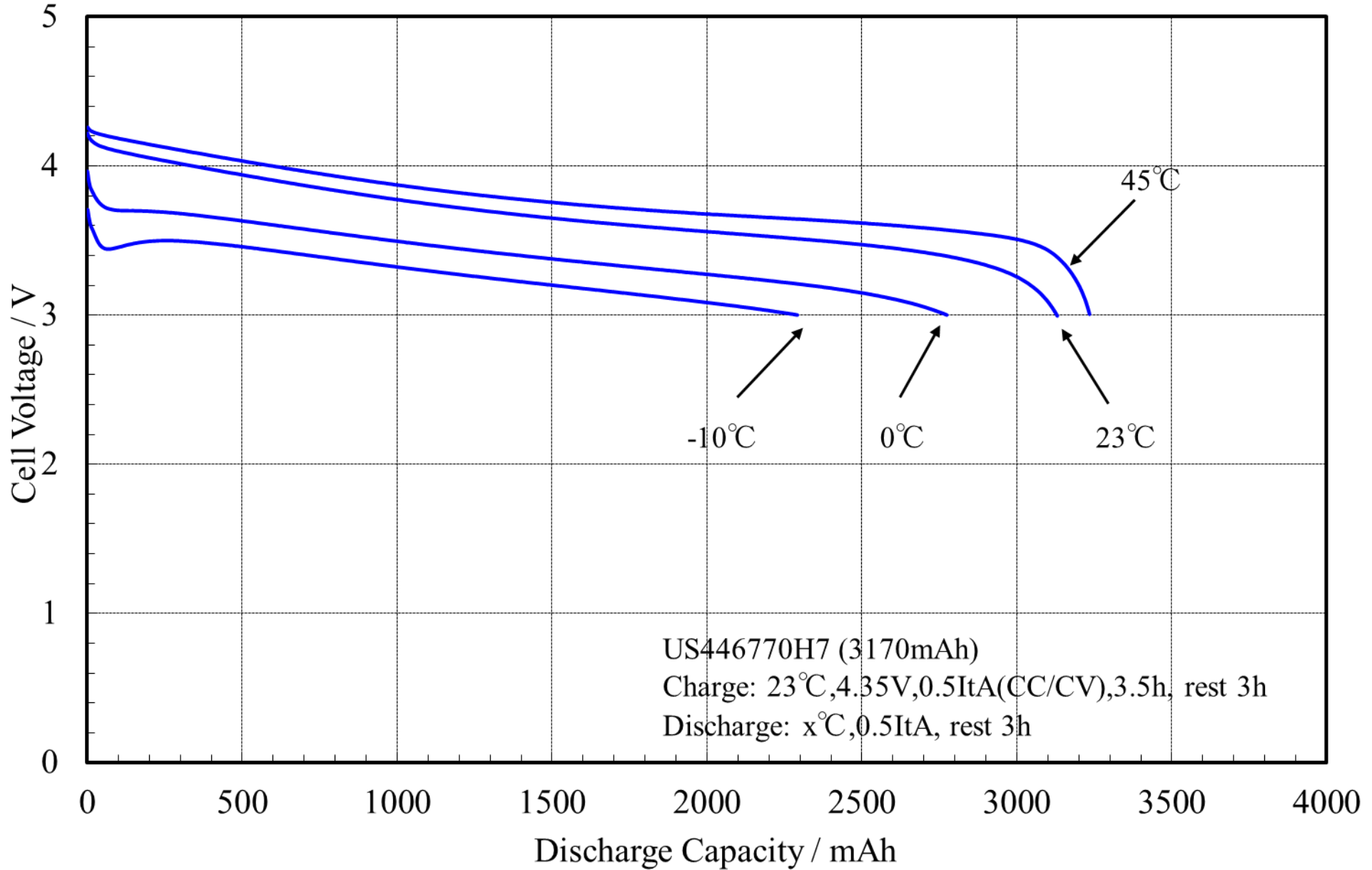
Discharging Profile



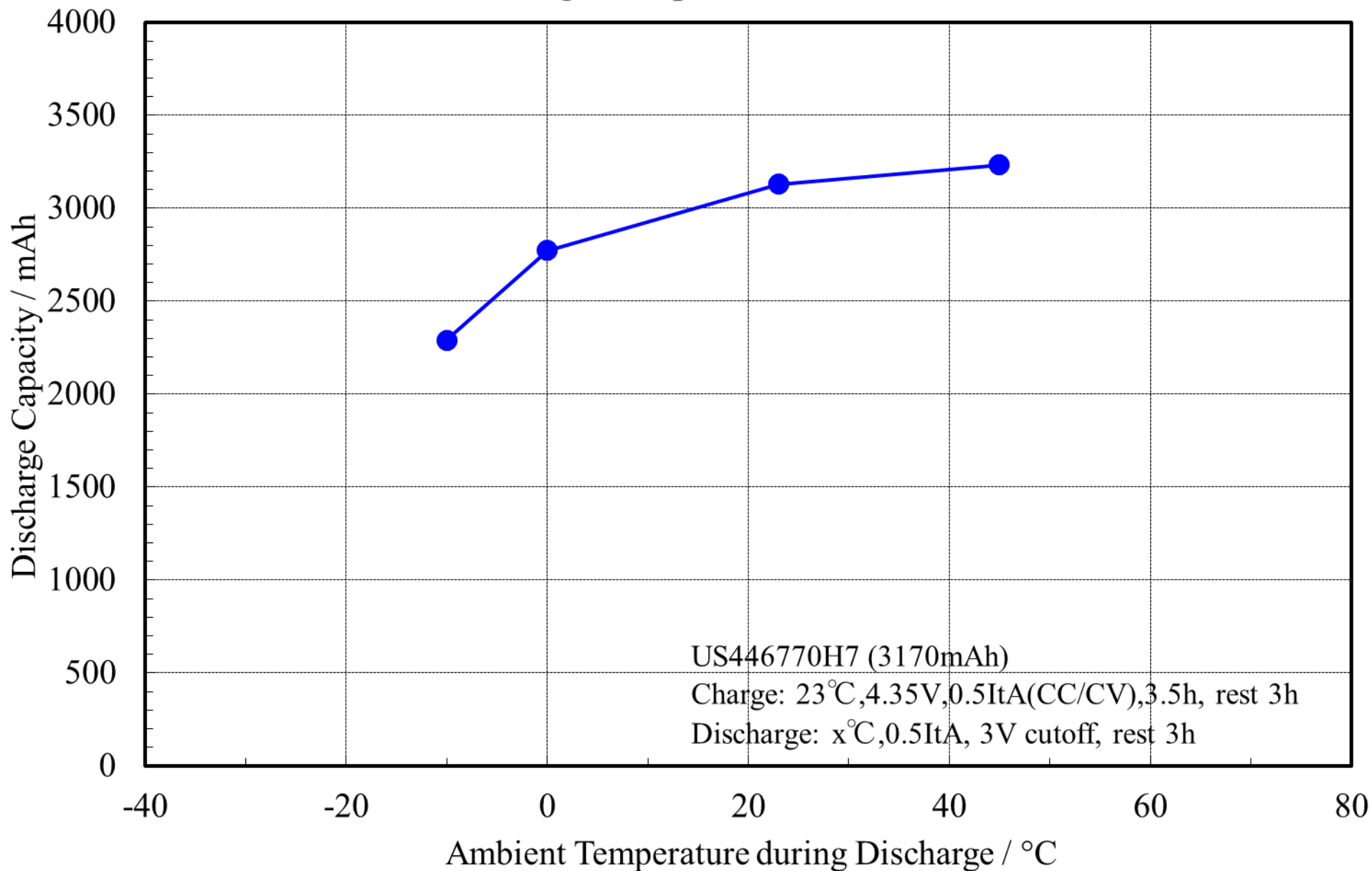
Drain Capability



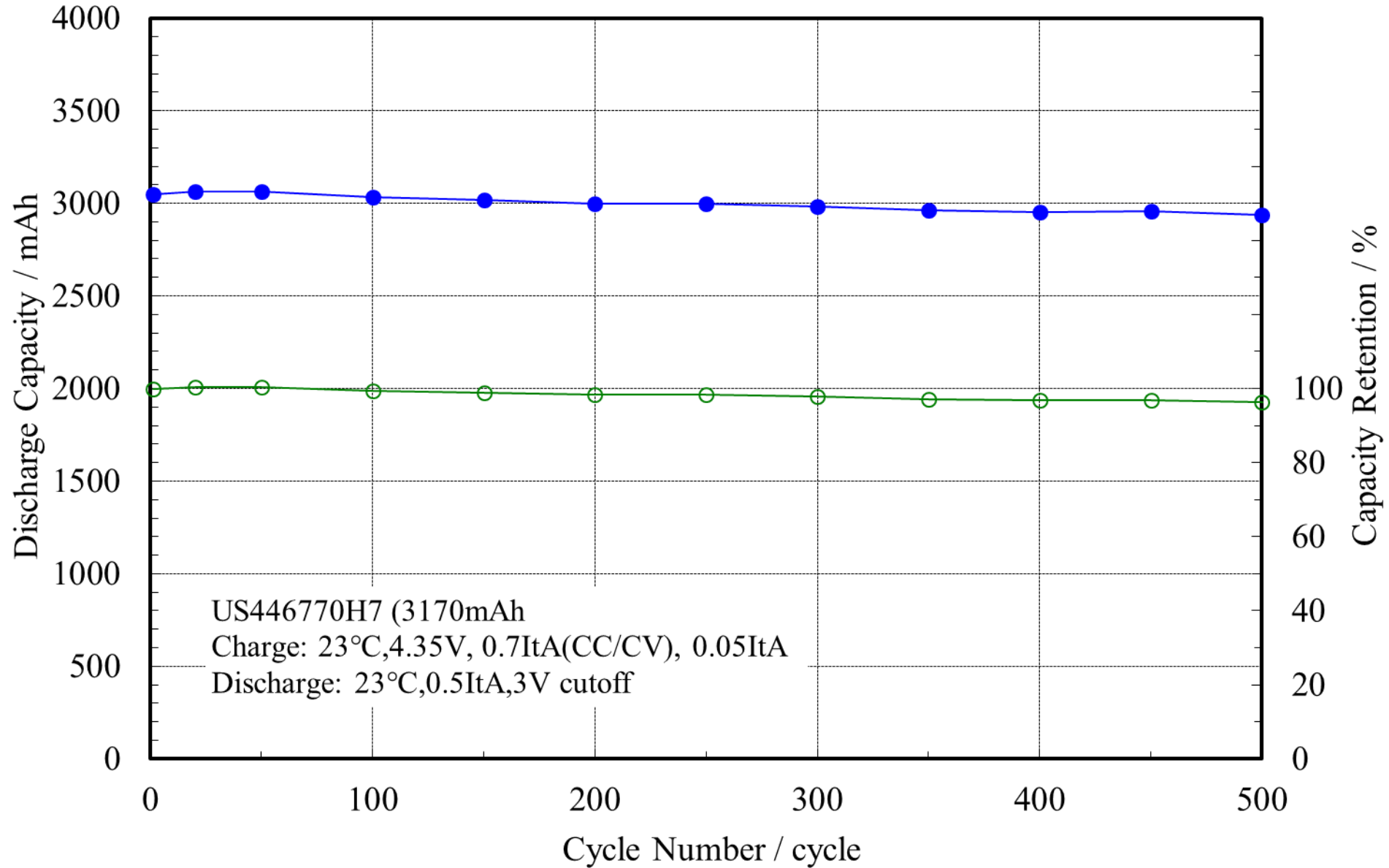
Discharging Profile



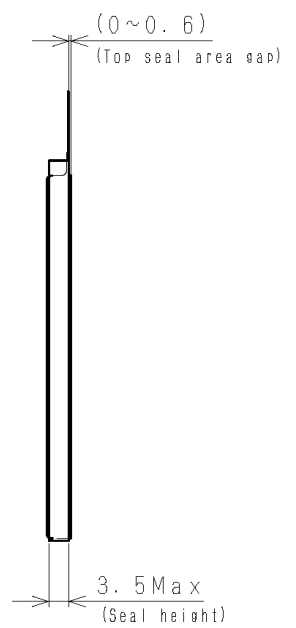
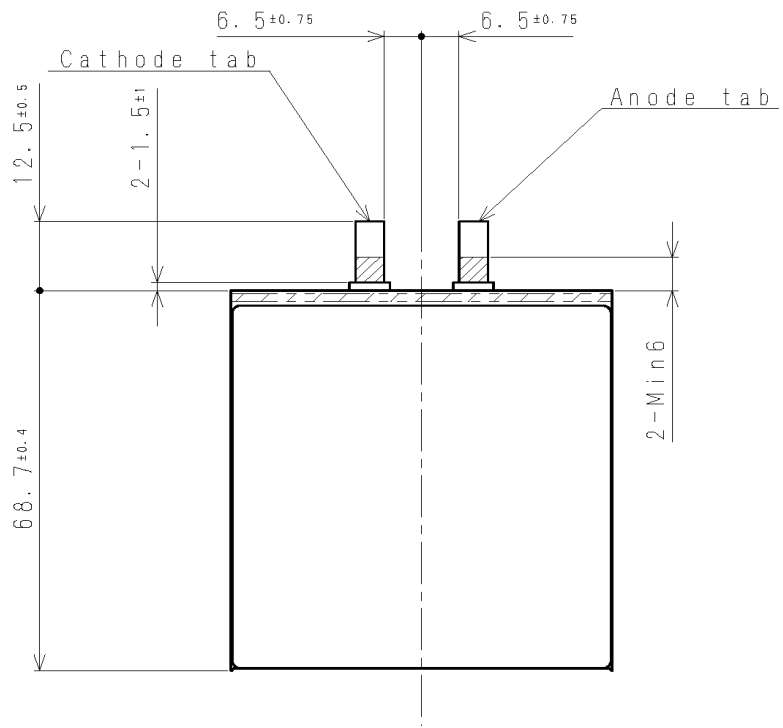
Discharge Temperature Performance



Cycle Performance



Cell Size (US446770H7)



Same opposite face

