

1. General

1.1 Scope

This specification applies to type

: US495577BH7 Lithium Ion Polymer Rechargeable Battery

1.2 Name and Code

1.2.1 Cell Name : US495577BH7

1.2.2 Model Number : US495577BH7

1.2.3 Code : 49943377

: 49943571(SOC less than 30%)

1.3 Cell Shape and Weight

1.3.1 Cell Shape : Polymer

1.3.2 Size : Thickness 4.81 mm max
Width 54.78 mm max
Length(without Tab) 76.35 mm max

1.3.3 Weight : 49.1 g (typical)

1.4 Reference test current

1.0 ItA: 3300 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)	3130mAh	minimum capacity
	11.92 Wh	
Capacity at 0.5ItA	3031mAh	average capacity
	11.23Wh	
Capacity at 1.0ItA	2852mAh	average capacity
	10.26 Wh	
Nominal Voltage	3.80 V	
Internal Impedance	29 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

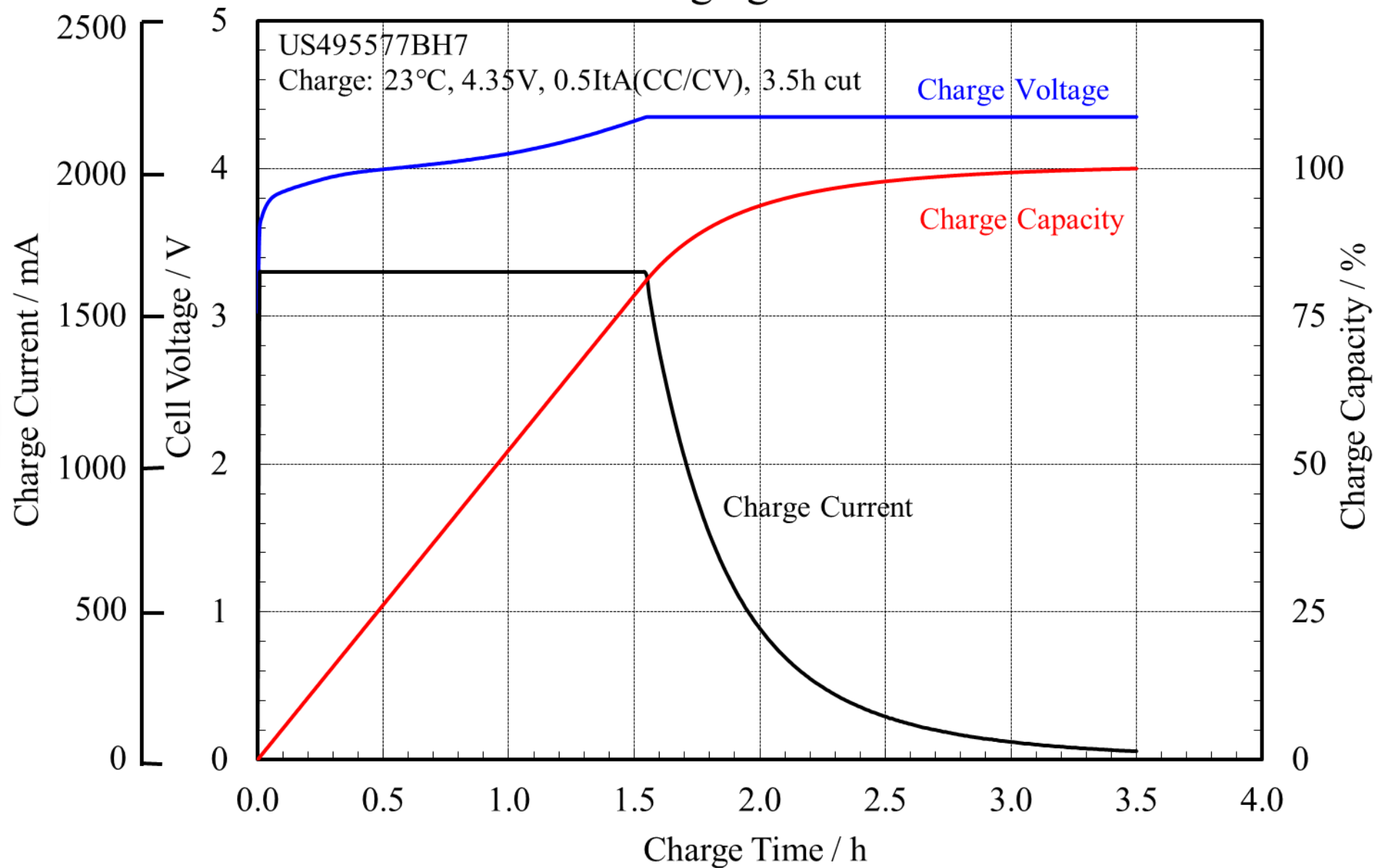
Charge Current : 1.65 A

Charge Cut off : 3.5h

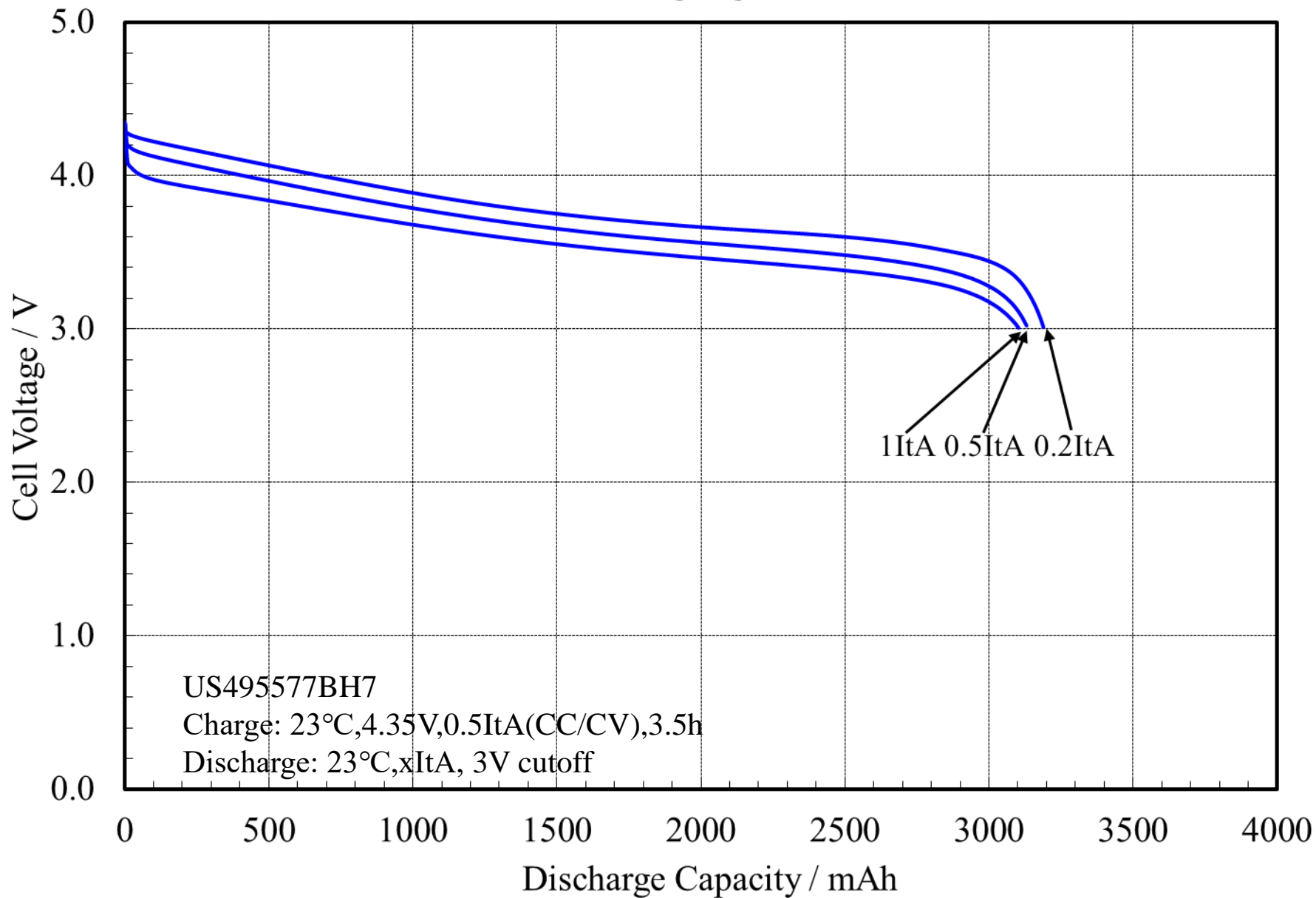
Ambiance : 23 °C

Temperature

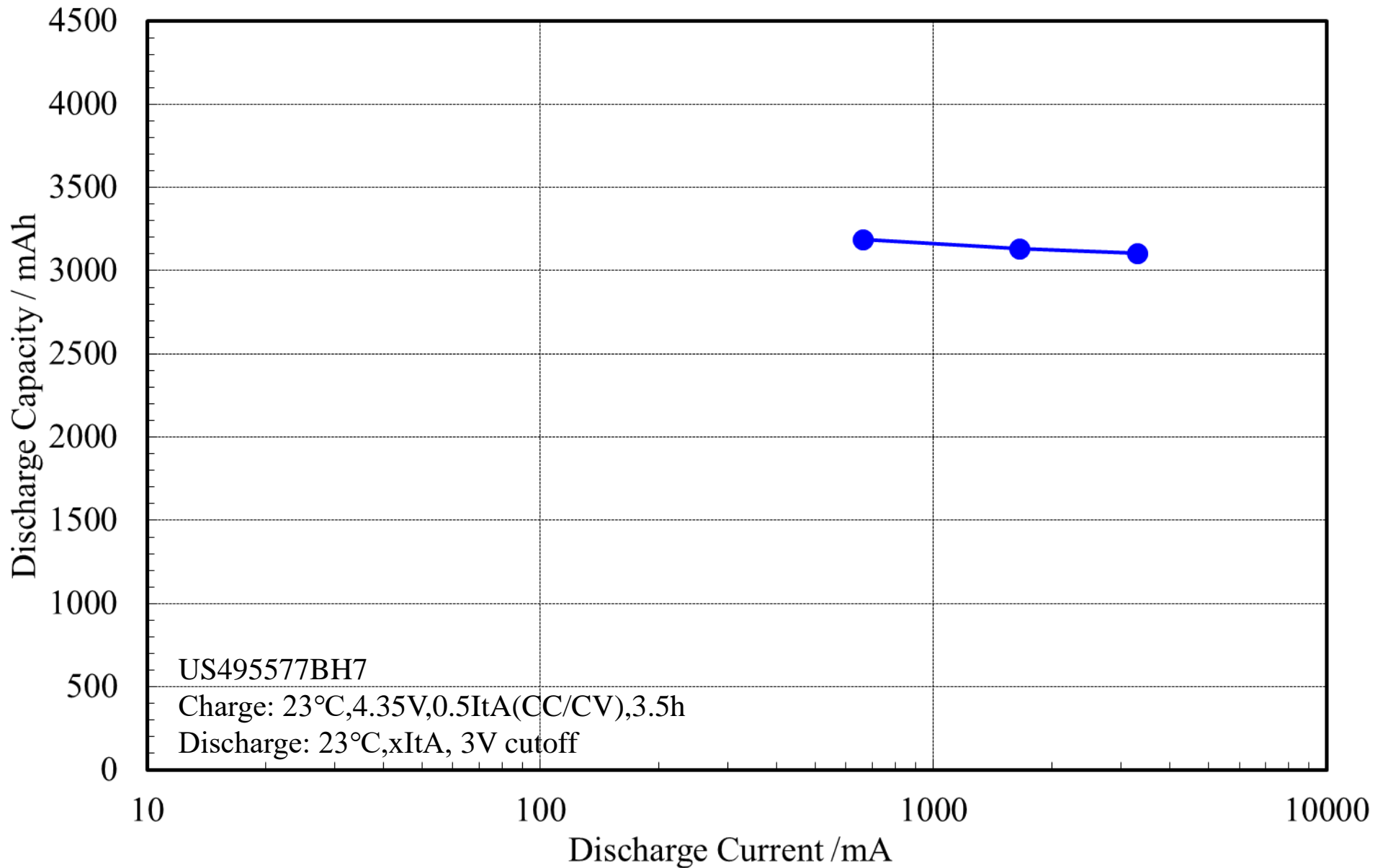
Charging Profile



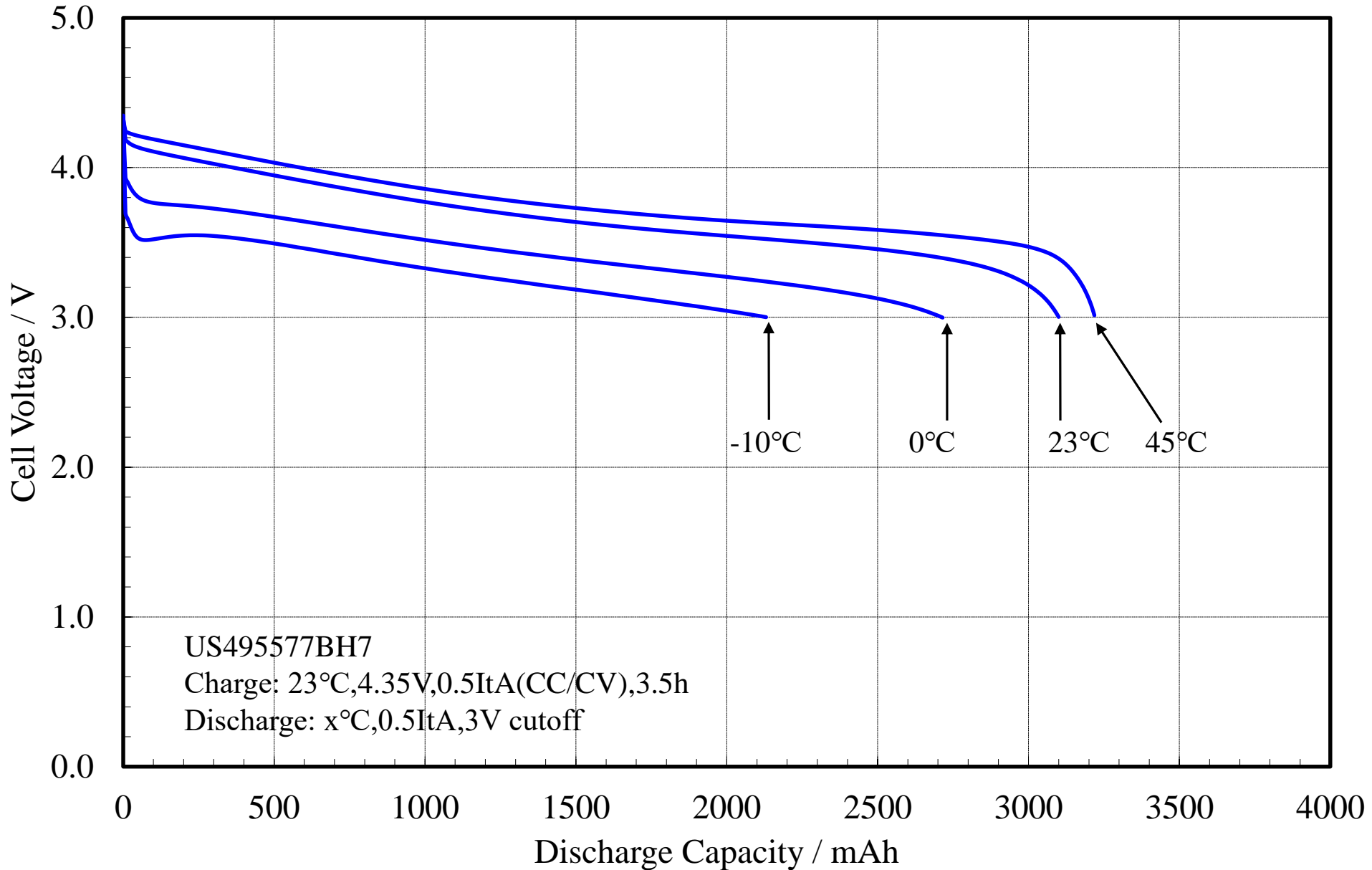
Discharging Profile



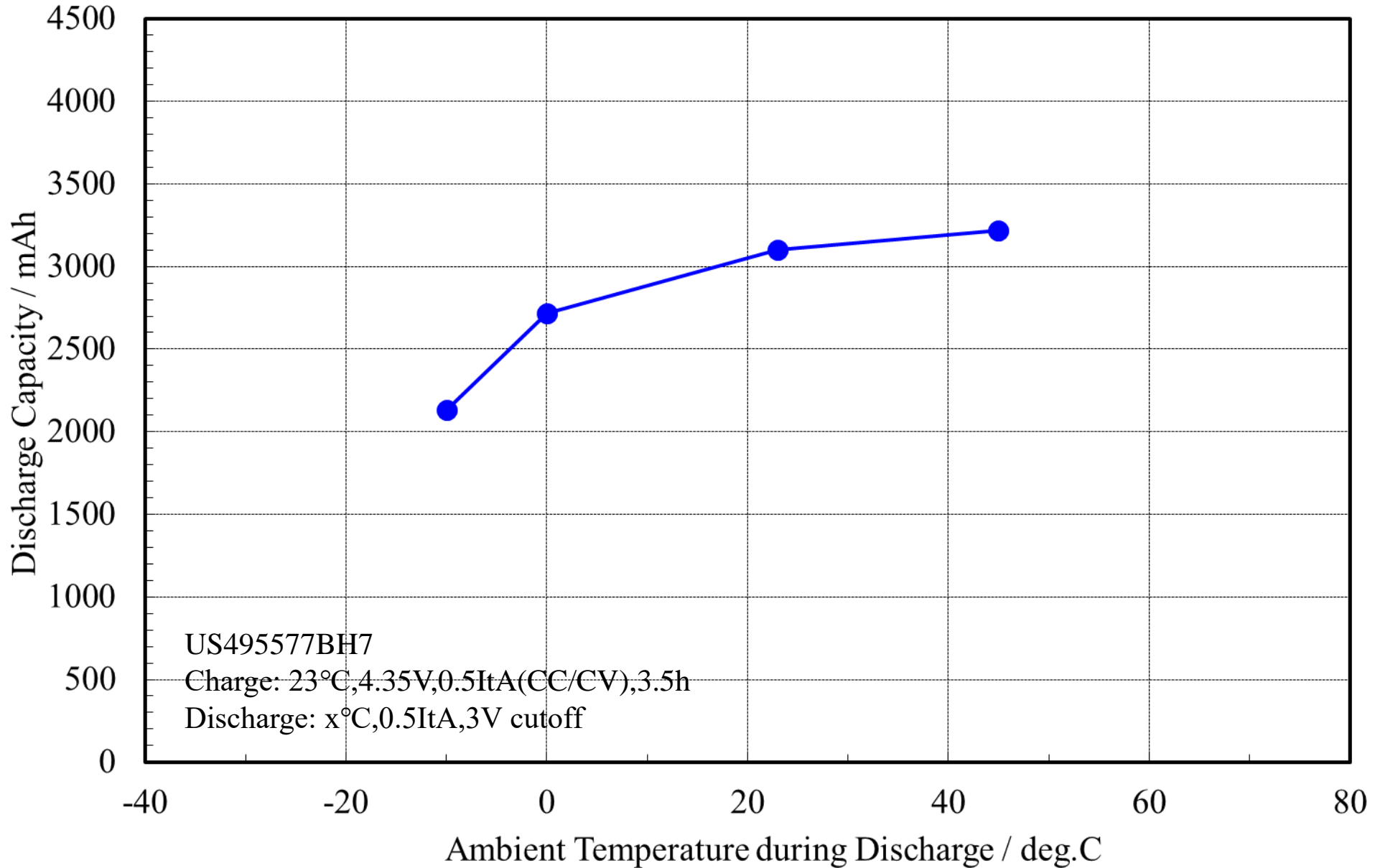
Drain Capability



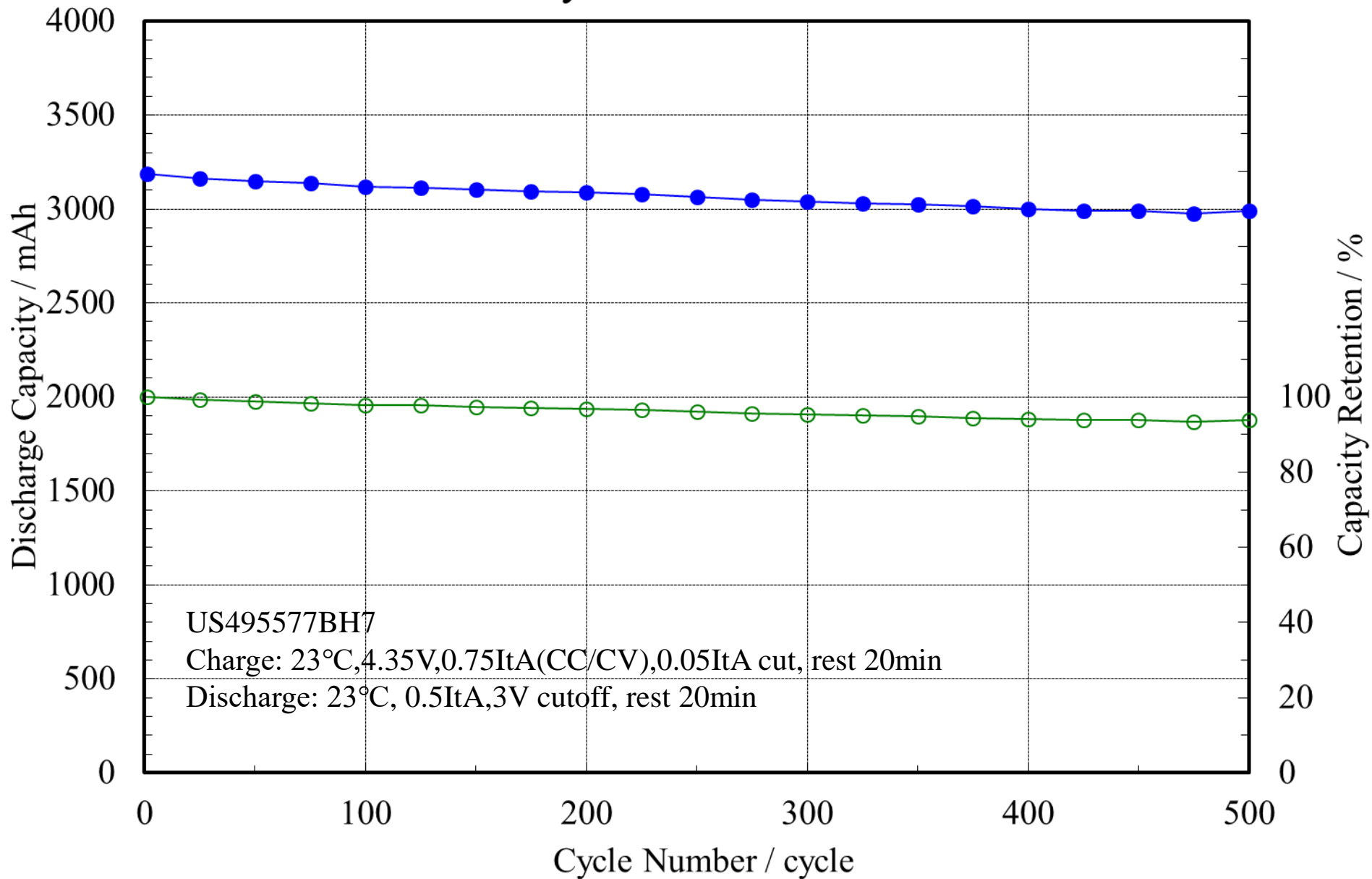
Discharging Profile



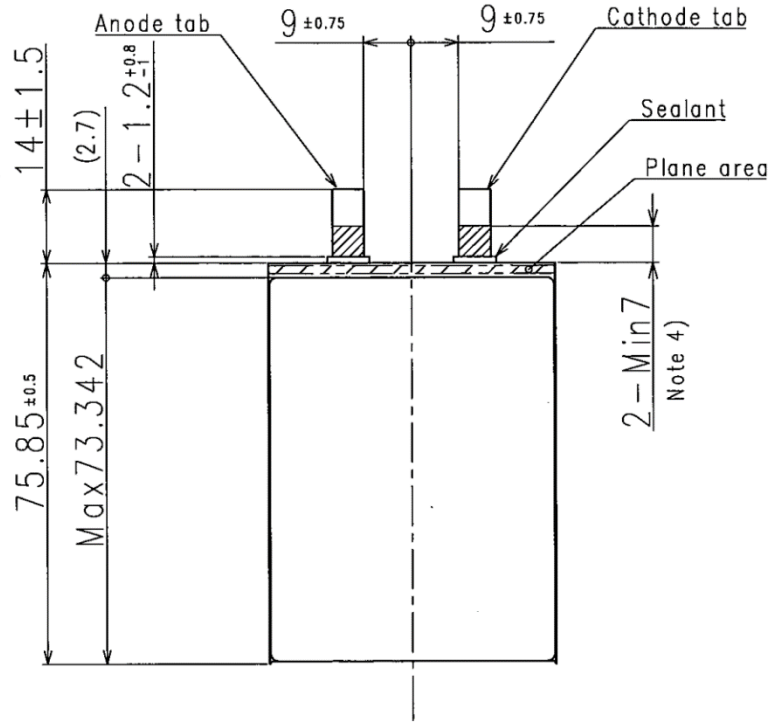
Discharge Temperature Performance



Cycle Performance



Cell Size (US495577BH7)



$\text{Max } 0.5$
 (Terrace area gap)

2.7 Max
 (Seal height)

Same opposite face

$4.59^{+0.13}$ (Shipping State)
 $4.68^{+0.13}$ (Full Charge State)

Note 2)

54.48 ± 0.3

