

1. General

1.1 Scope

This specification applies to type

: US504588H5 Lithium Ion Polymer Rechargeable Battery

1.2 Name and Code

1.2.1 Cell Name : US504588H5

1.2.2 Model Number : US504588H5

1.2.3 Code : 49939020

1.3 Cell Shape and Weight

1.3.1 Cell Shape : Polymer

1.3.2 Size : Thickness 4.91 mm max
Width 43.8 mm max
Length(without Tab) 88 mm max

1.3.3 Weight : 46.1 g (typical)

1.4 Reference test current

1.0 ItA: 3050 mA

1.5 Safety Regulation

Murata acquired UL1642

2. Performance

at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	3130mAh	average capacity 3.82 V (average discharge voltage)
	11.95 Wh	
Rated Capacity (0.2ItA discharge)	3050mAh	minimum capacity
	11.59 Wh	
Capacity at 0.5ItA	3092mAh	average capacity
	11.54 Wh	
Capacity at 1.0ItA	3068mAh	average capacity
	11.12 Wh	
Nominal Voltage	3.8 V	
Internal Impedance	28 mΩ	measured by AC1 kHz
Cycle Performance	80% of Initial capacity at 500 cycles	0.7 ItA discharge rate

***Standard Charge Condition**

Charge Method : constant current / constant voltage

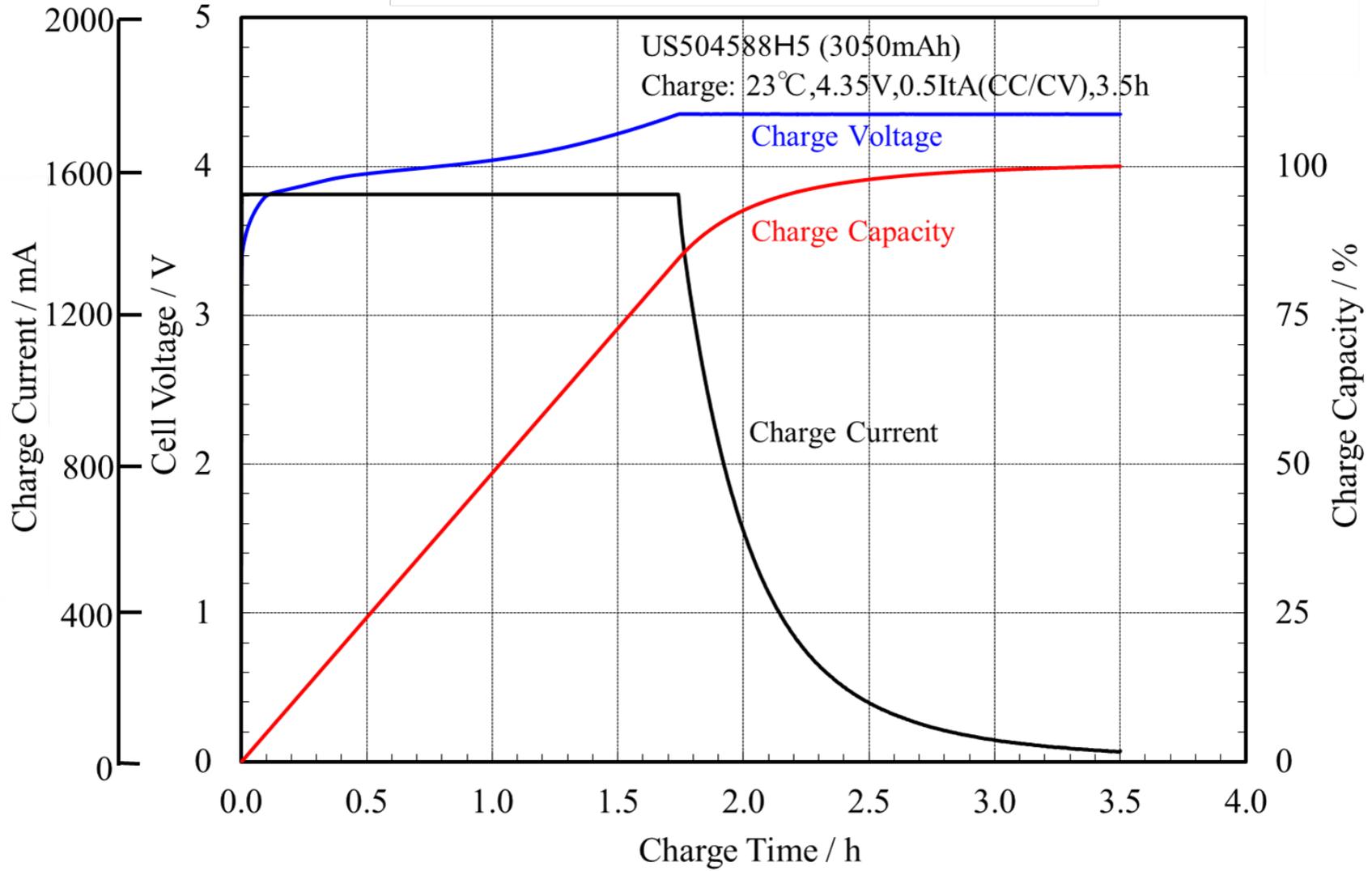
Charge Up Voltage : 4.35 ± 0.05 V

Charge Current : 1.525 A

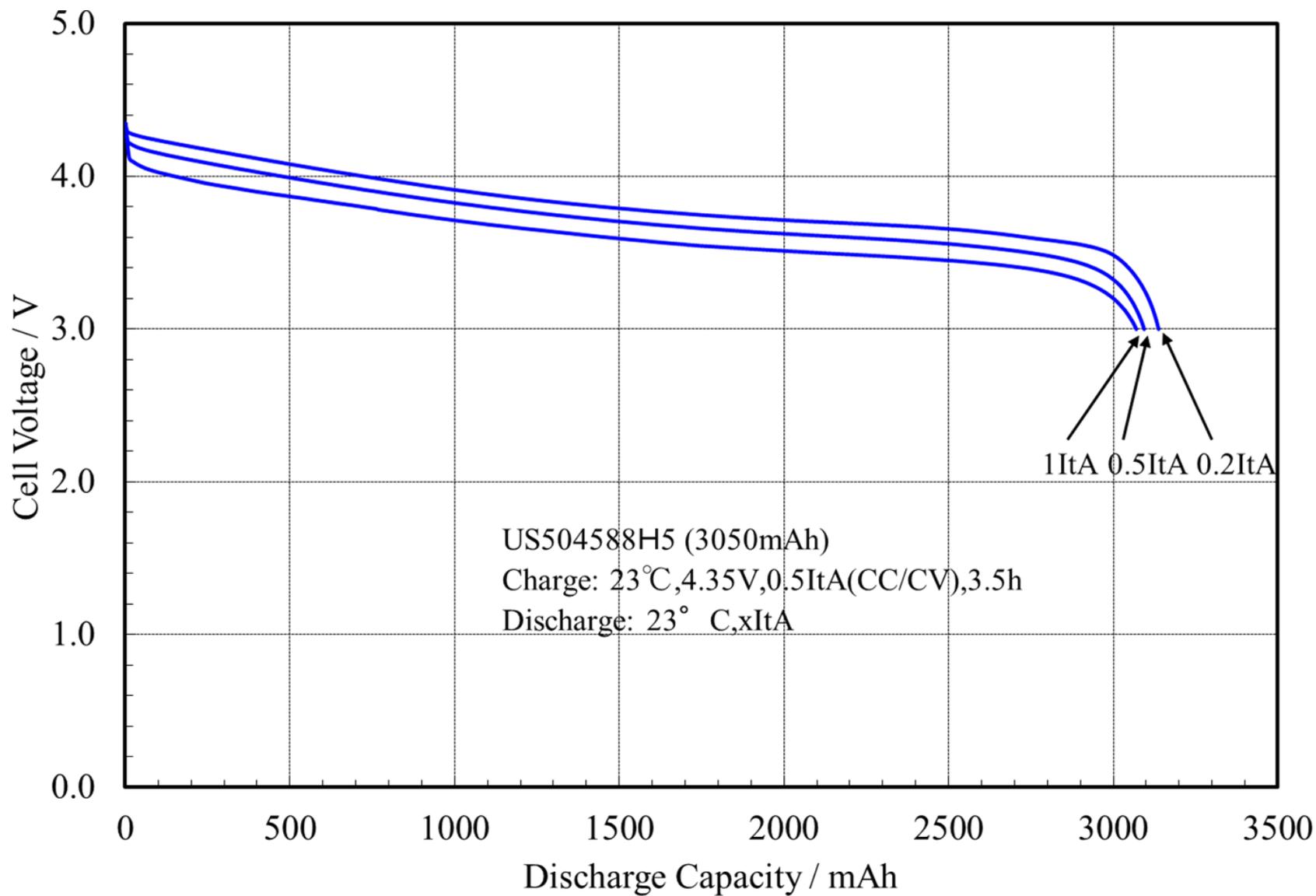
Charge Cut off Current : 3.5 h

Ambiance Temperature : 23 °C

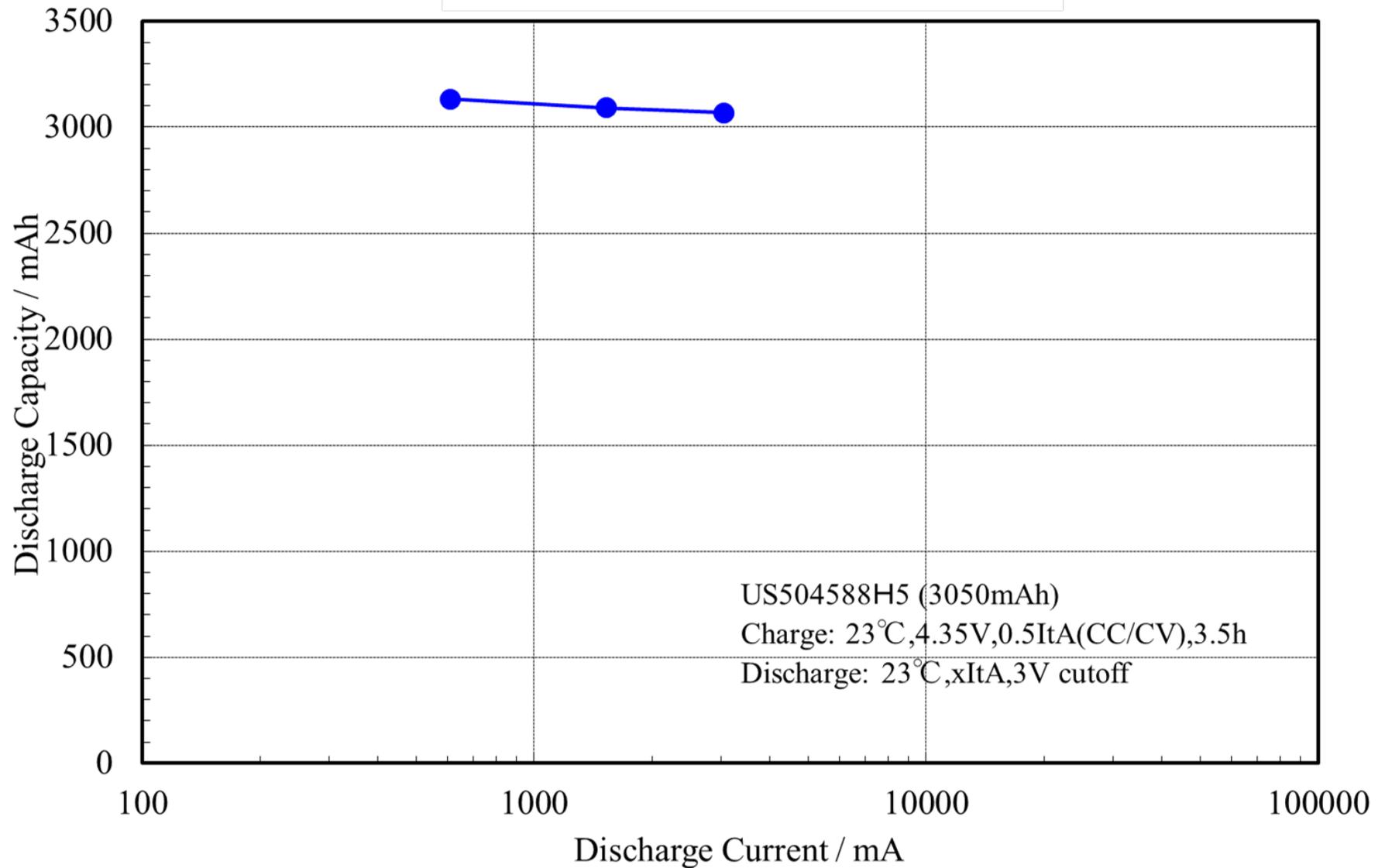
Charging Profile



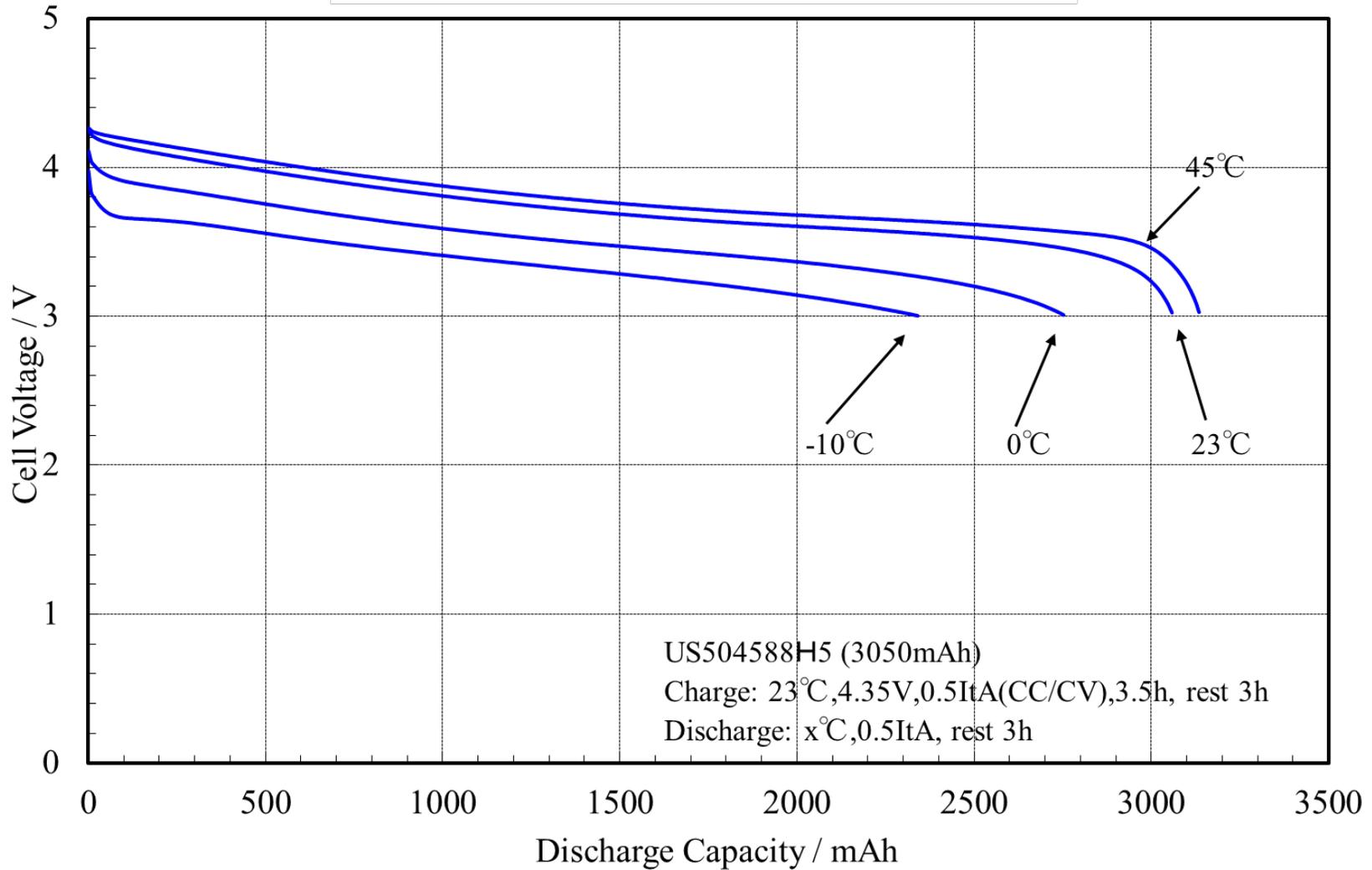
Discharging Profile



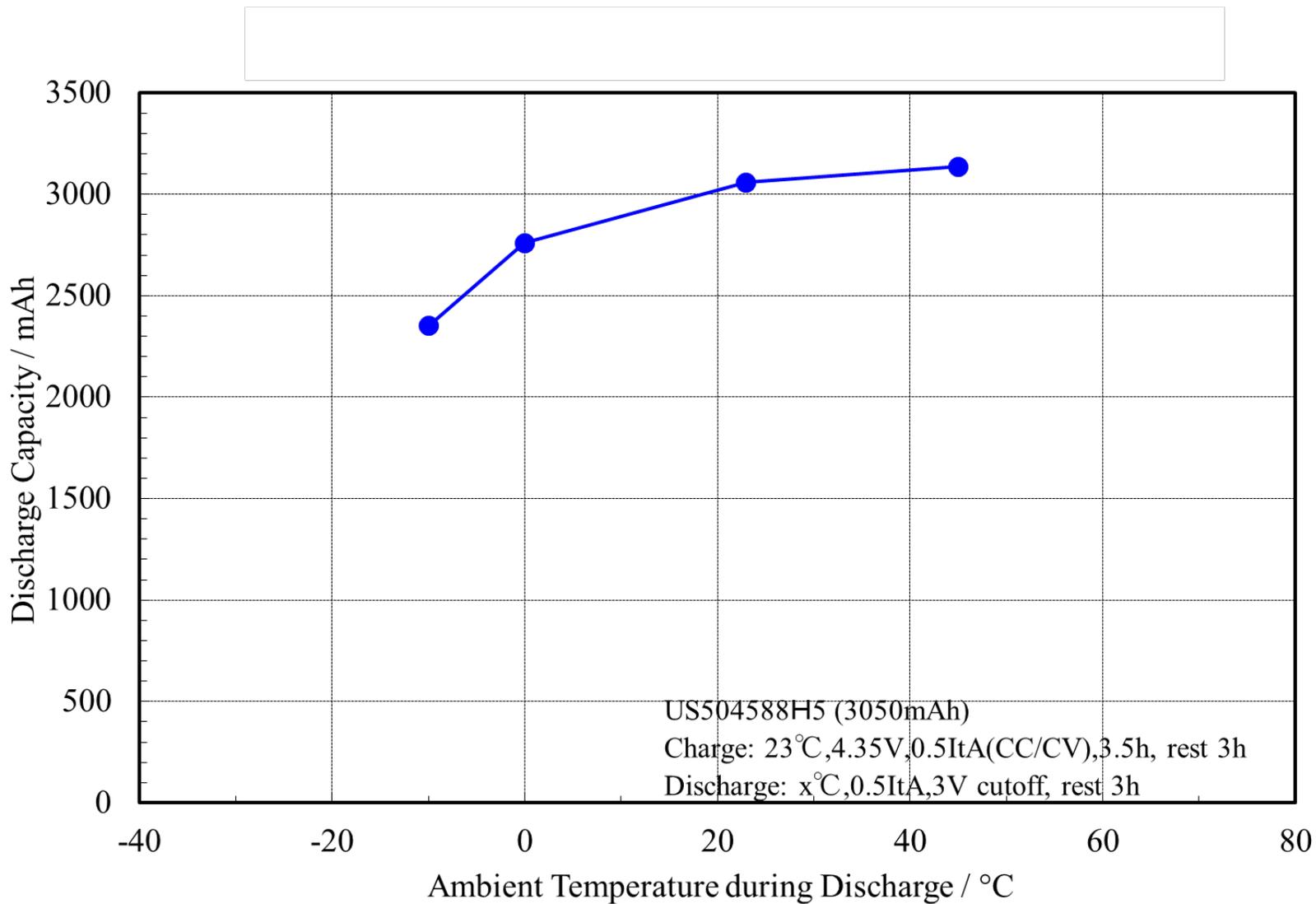
Drain Capability



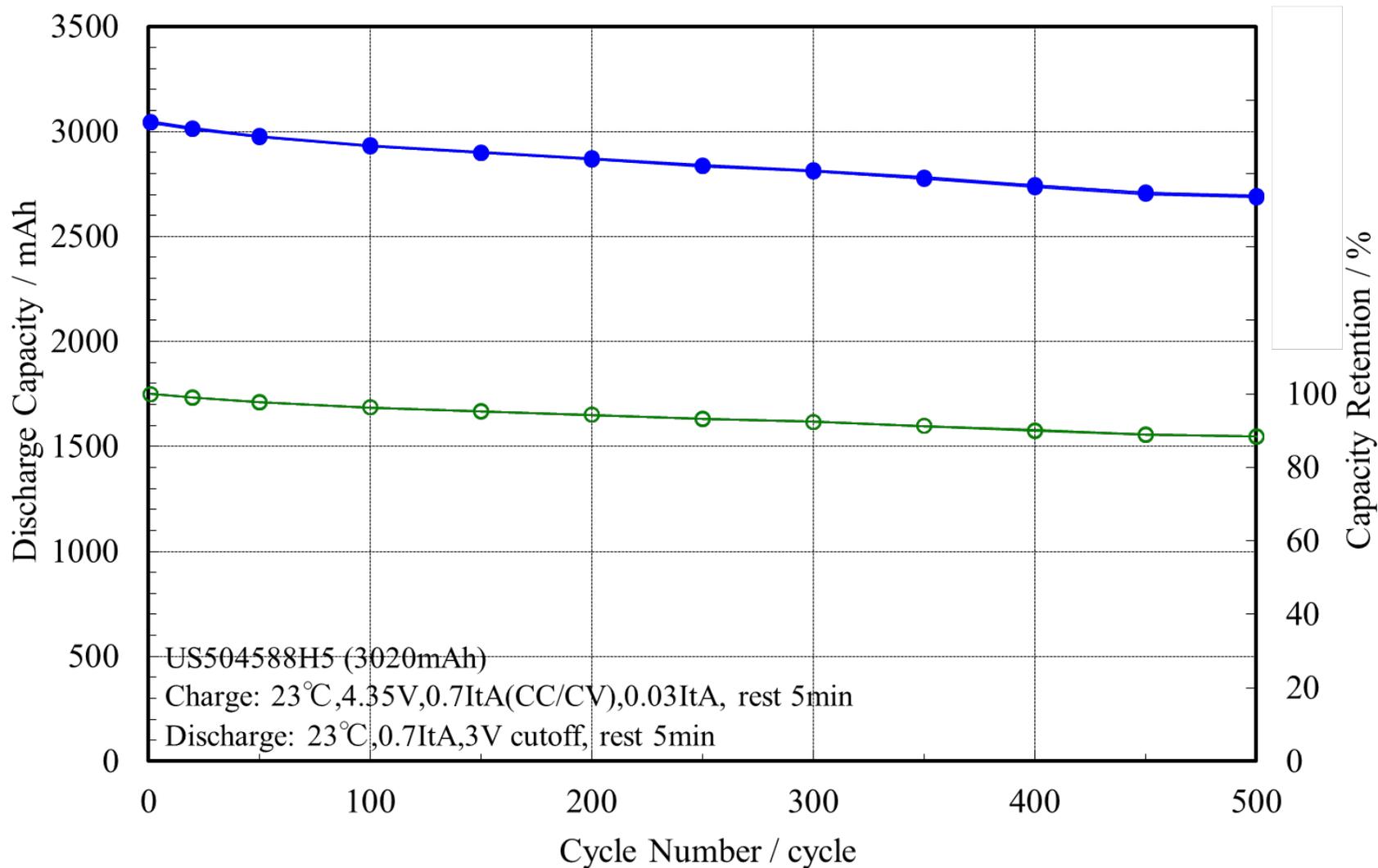
Discharging Profile



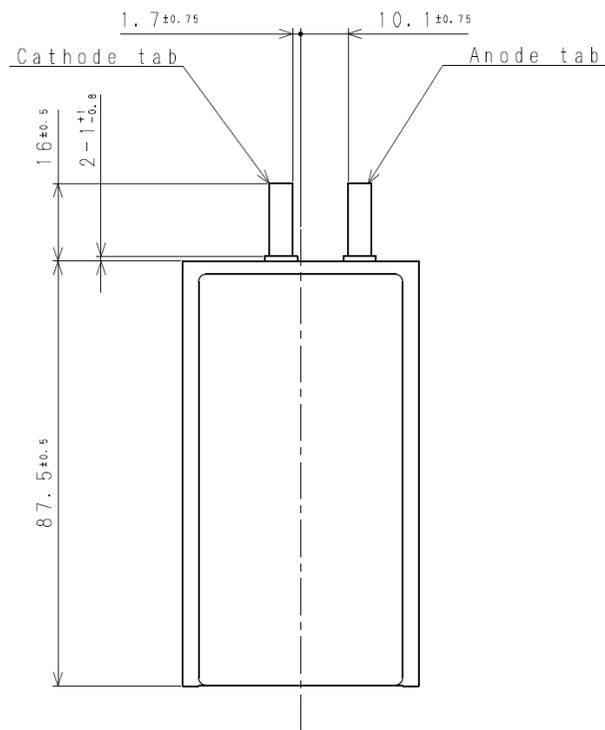
Discharge Temperature Performance



Cycle Performance



Cell Size (US504588H5)



Same opposite face

