

1. General

1.1 Scope

This specification applies to type

: US456386H5 Lithium Ion Polymer Rechargeable Battery

1.2 Name and Code

1.2.1 Cell Name : US456386H5

1.2.2 Model Number : US456386H5

1.2.3 Code : 49939840

1.3 Cell Shape and Weight

1.3.1 Cell Shape : Polymer

1.3.2 Size : Thickness 4.5 mm max
Width 62.2 mm max
Length(without Tab) 85.02 mm max

1.3.3 Weight : 61 g (typical)

1.4 Reference test current

1.0 ItA: 3540 mA

1.5 Safety Regulation

Murata acquired UL1642

2. Performance

at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	3650mAh	average capacity 3.8 V (average discharge voltage)
	13.87 Wh	
Rated Capacity (0.2ItA discharge)	3540mAh	minimum capacity
	13.45 Wh	
Capacity at 0.5ItA	3618mAh	average capacity
	13.61 Wh	
Capacity at 1.0ItA	3606mAh	average capacity
	13.21 Wh	
Nominal Voltage	3.8 V	
Internal Impedance	35 mΩ	measured by AC1 kHz
Cycle Performance	80% of Initial capacity at 400 cycles	0.5 ItA discharge rate

***Standard Charge Condition**

Charge Method : constant current / constant voltage

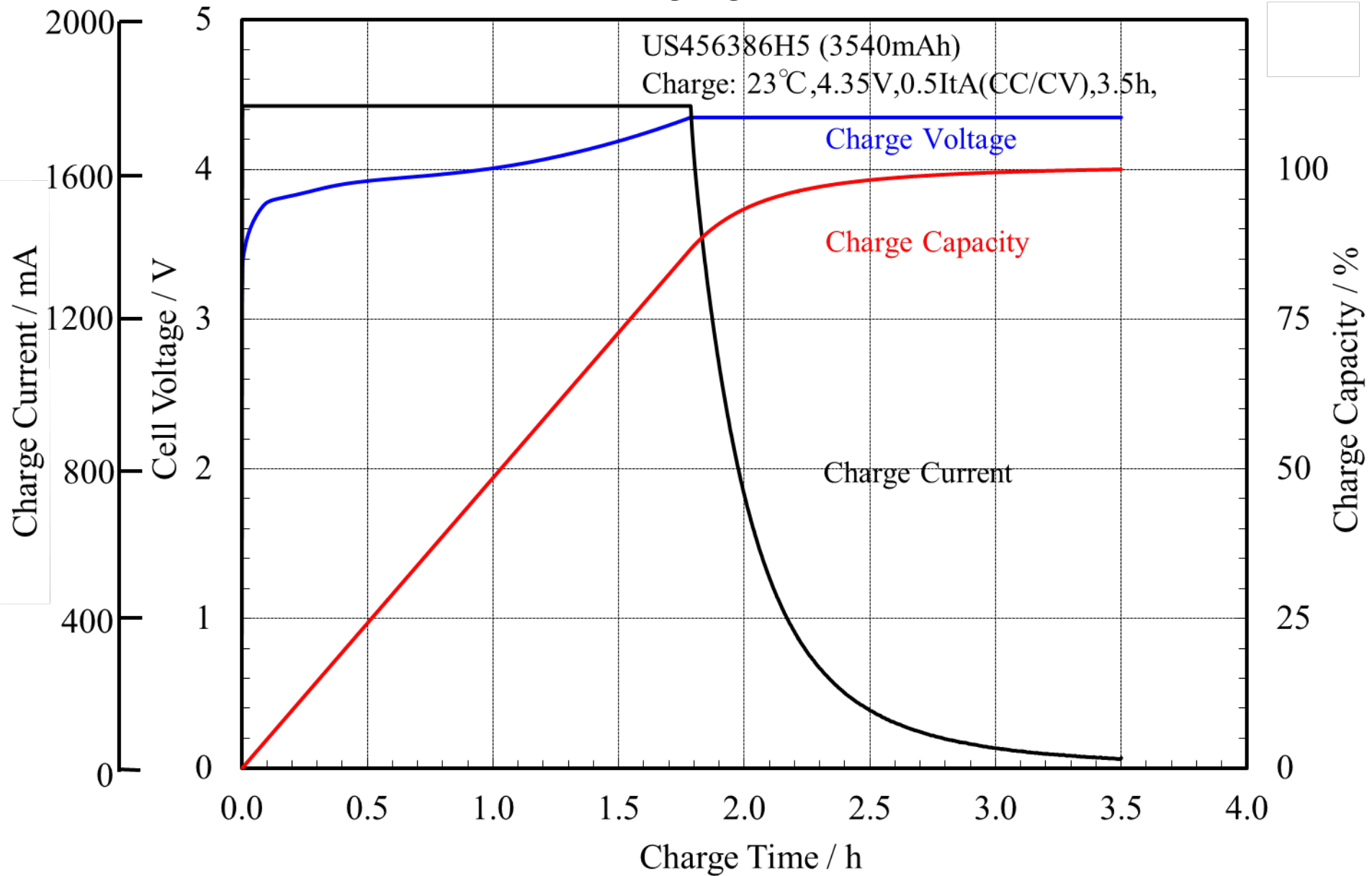
Charge Up Voltage : 4.35 ± 0.05 V

Charge Current : 1.77 A

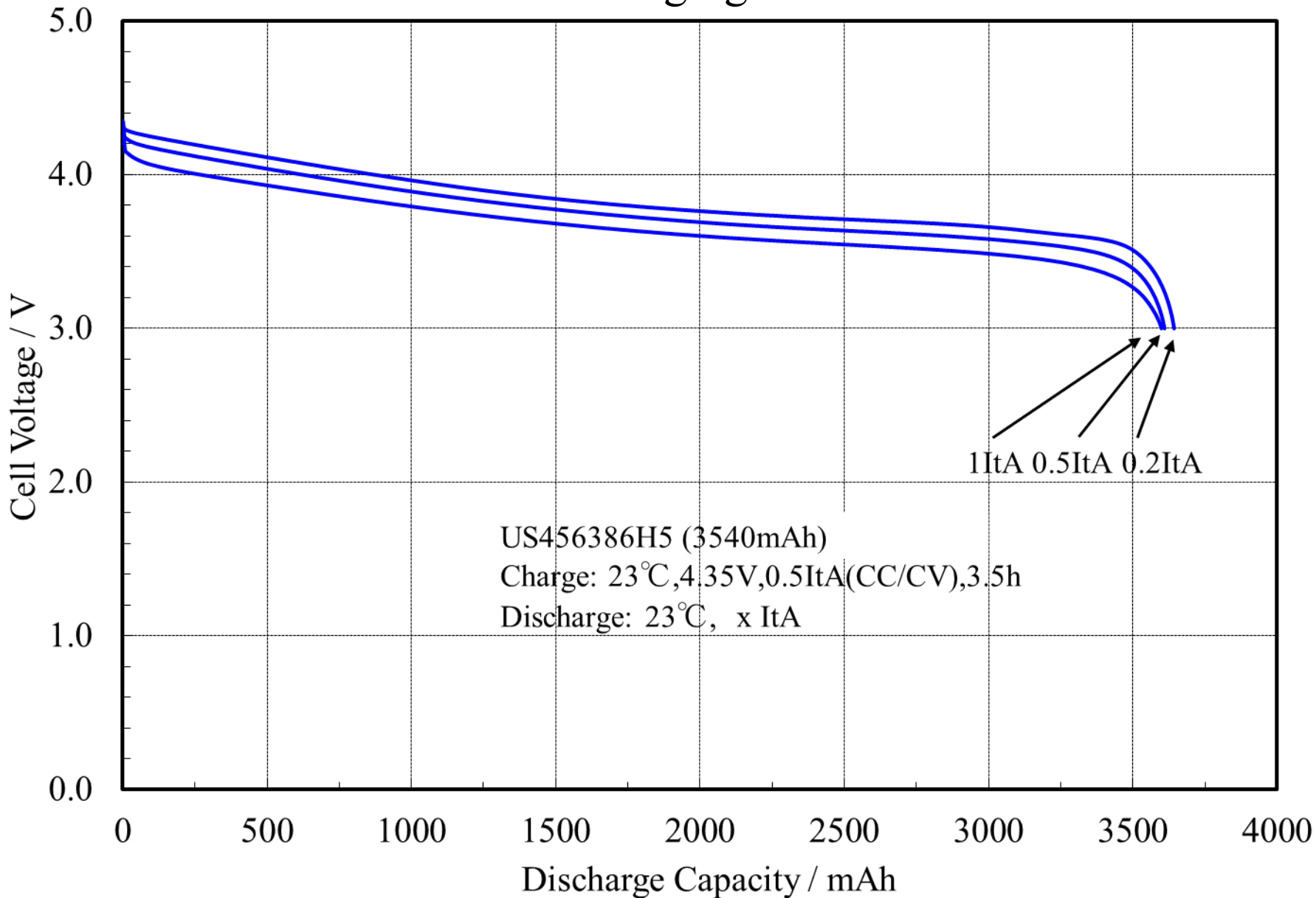
Charge Cut off Current : 3.5 h

Ambiance Temperature : 23 °C

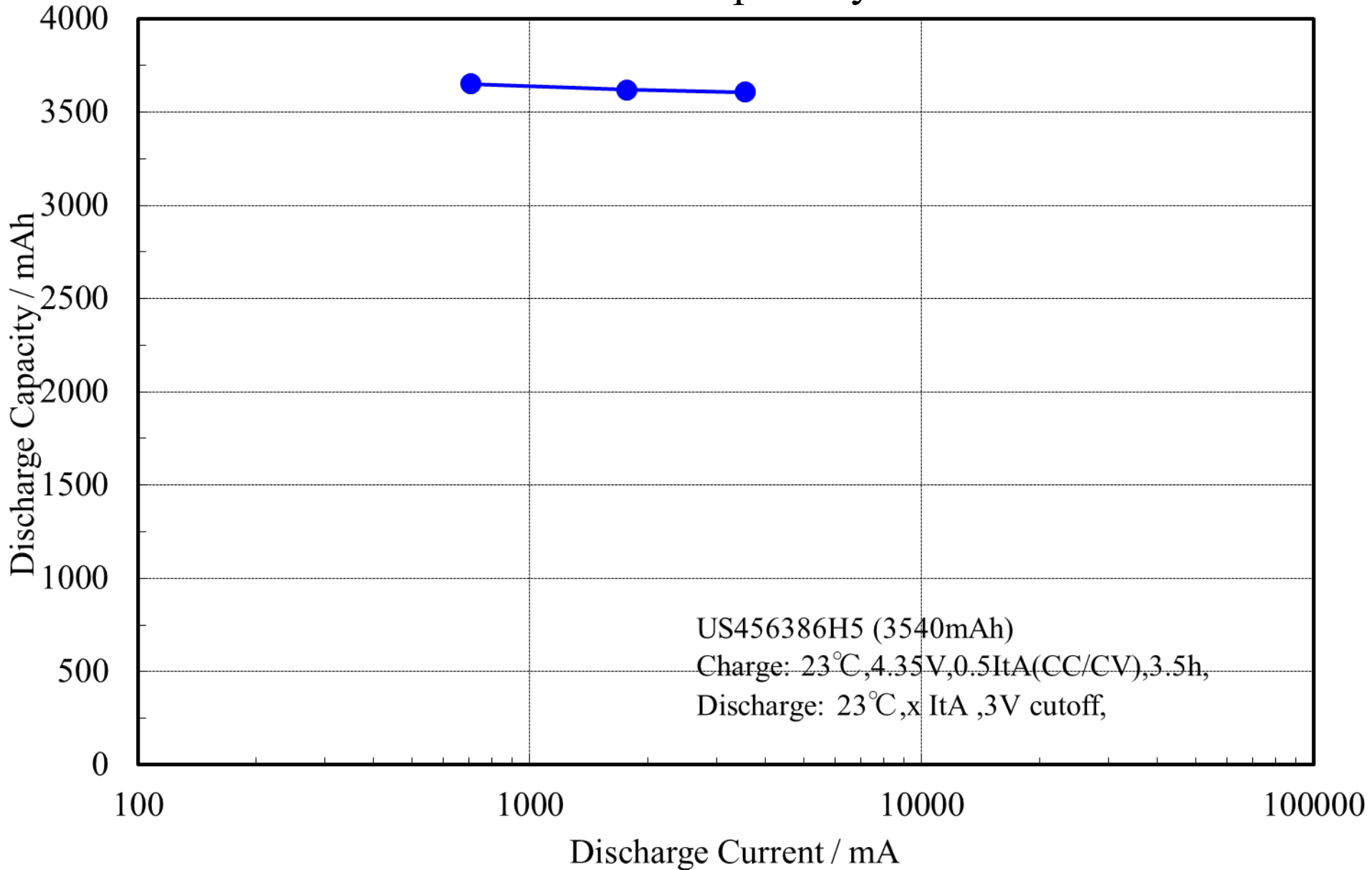
Charging Profile



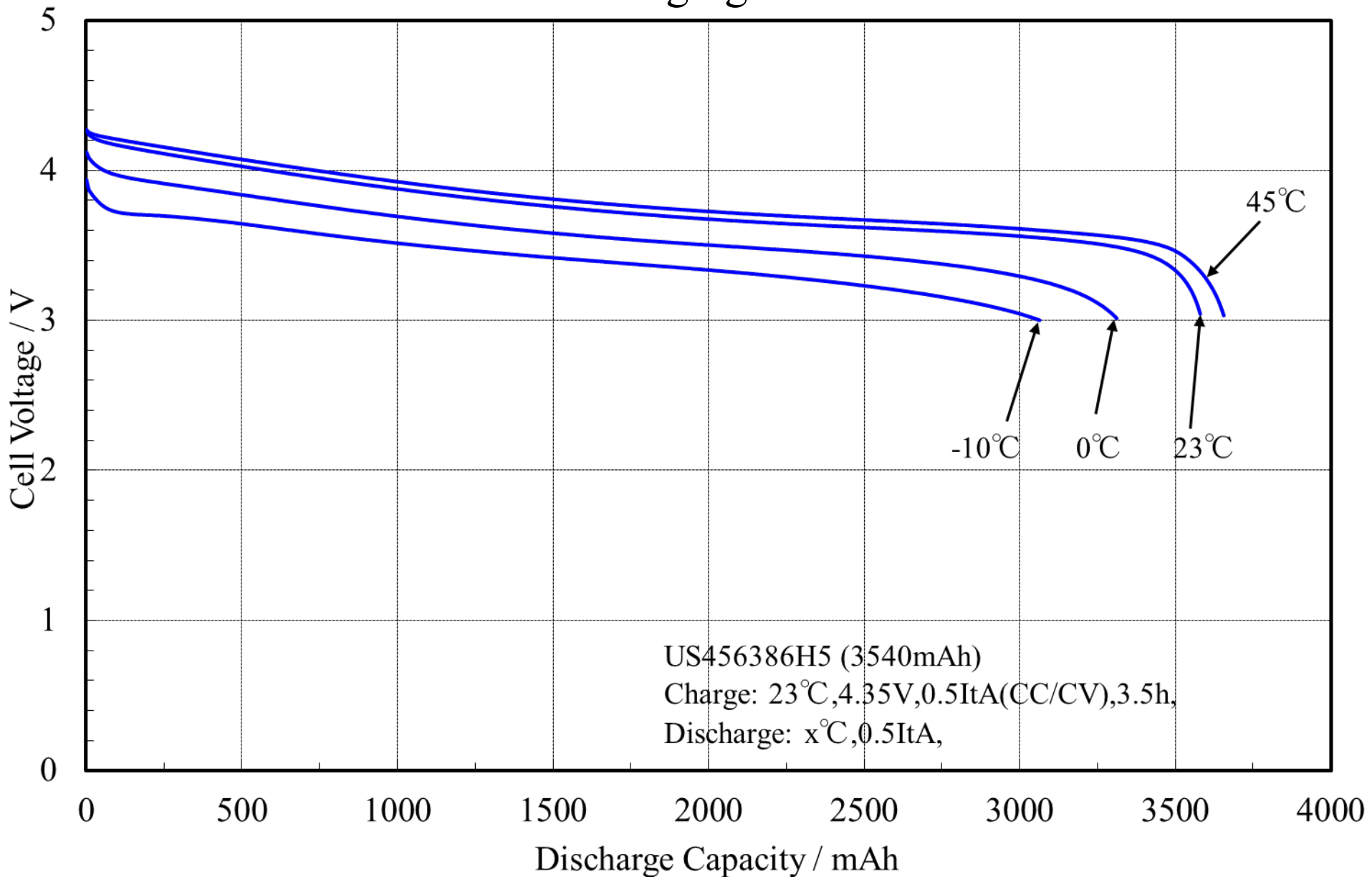
Discharging Profile



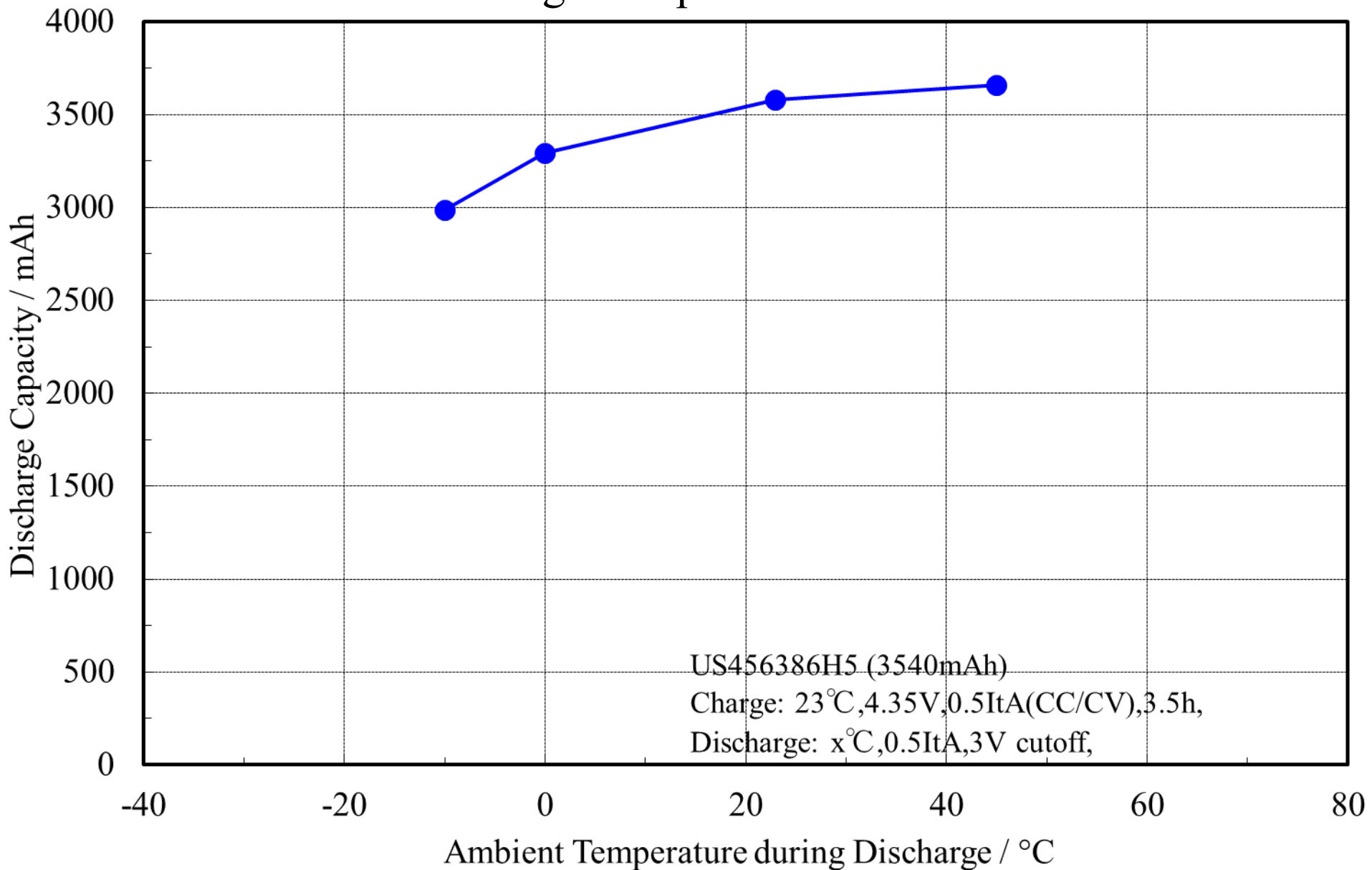
Drain Capability



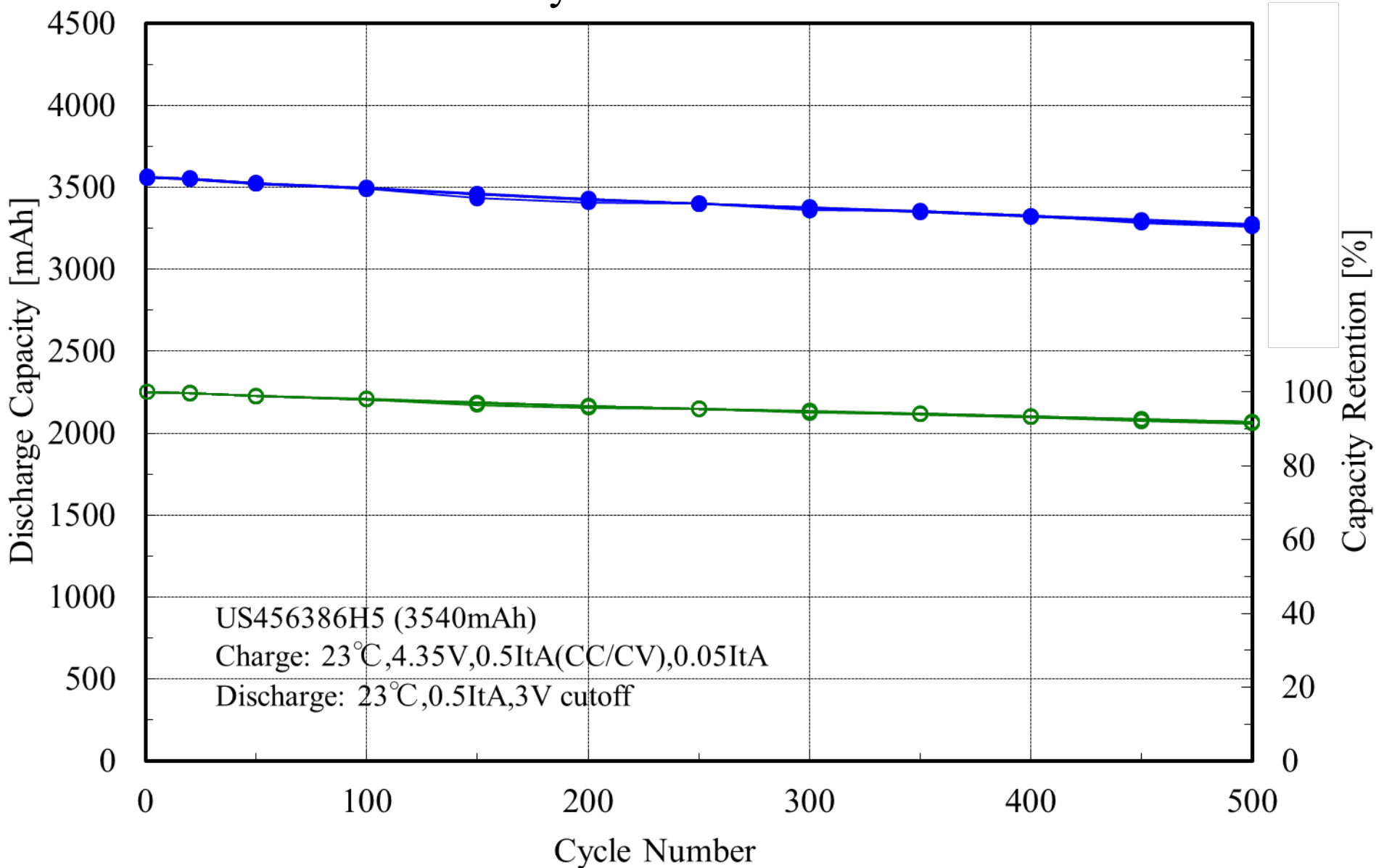
Discharging Profile



Discharge Temperature Performance



Cycle Performance



Cell size (US456386H5)

