

1. General

1.1 Scope

This specification applies to type

: US97500A10S Lithium Ion Polymer Rechargeable Battery

1.2 Name and Code

1.2.1 Cell Name : US97500

1.2.2 Model Number : US97500A10S

1.2.3 Code : 49943082
: 49943469 (SOC30% less than)

1.3 Cell Shape and Weight

1.3.1 Cell Shape : Polymer

1.3.2 Size : Thickness 9.6 mm max
Width 9.9 mm max
Length(without Tab) 50 mm max

1.3.3 Weight : 7.8 g (typical)

1.4 Reference test current

1.0 ItA: 395 mA

1.5 Safety Regulation

Murata acquired UL1642

2. Performance

at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	408mAh	average capacity 3.7 V (average discharge voltage)
	1.51 Wh	
Rated Capacity (0.2ItA discharge)	392mAh	minimum capacity
	1.45 Wh	
Capacity at 0.5ItA	384mAh	average capacity
	1.42Wh	
Capacity at 1.0ItA	368mAh	average capacity
	1.36Wh	
Nominal Voltage	3.7 V	
Internal Impedance	70 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

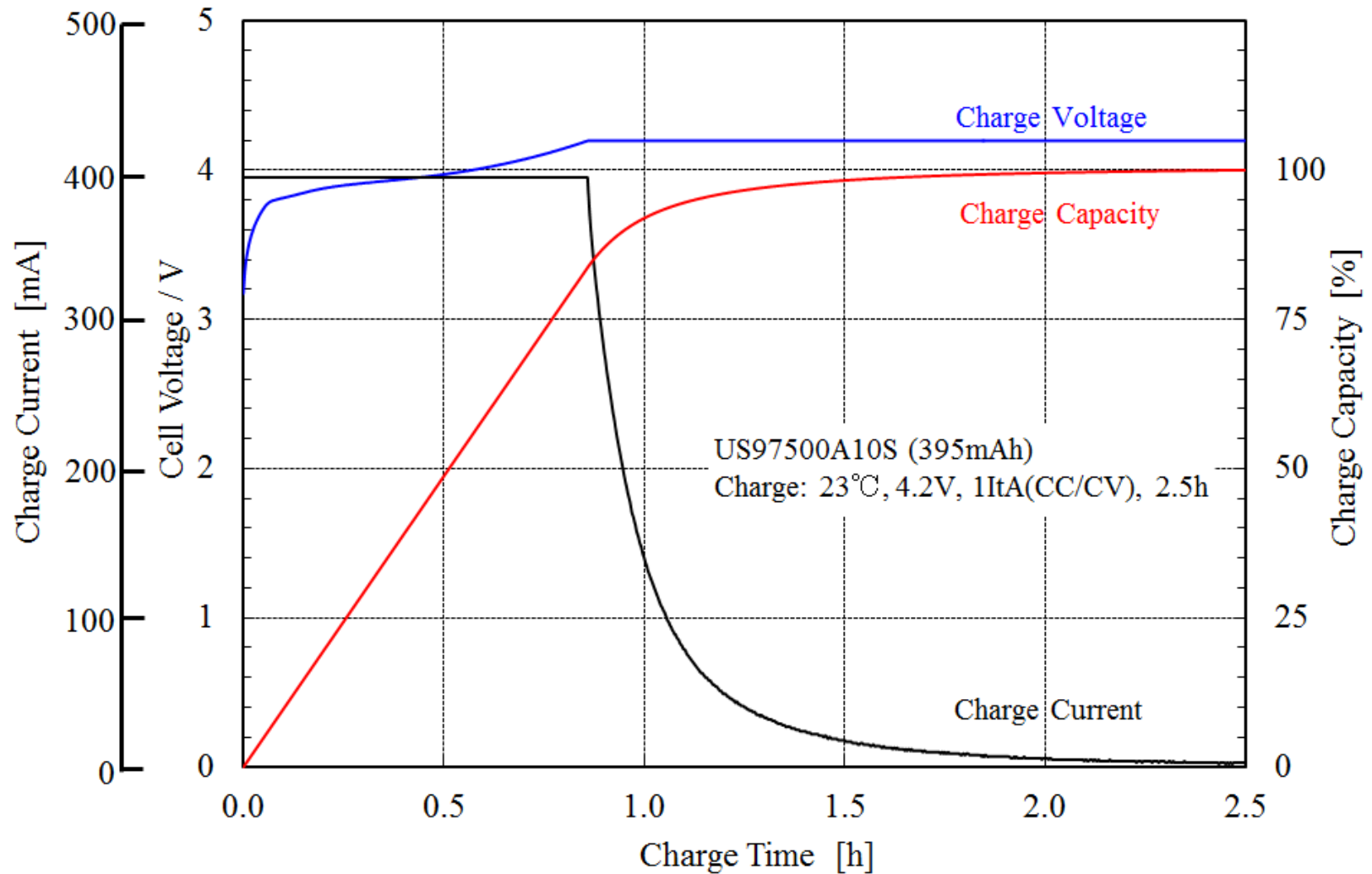
Charge Up Voltage : 4.2 ± 0.05 V

Charge Current : 0.395 A

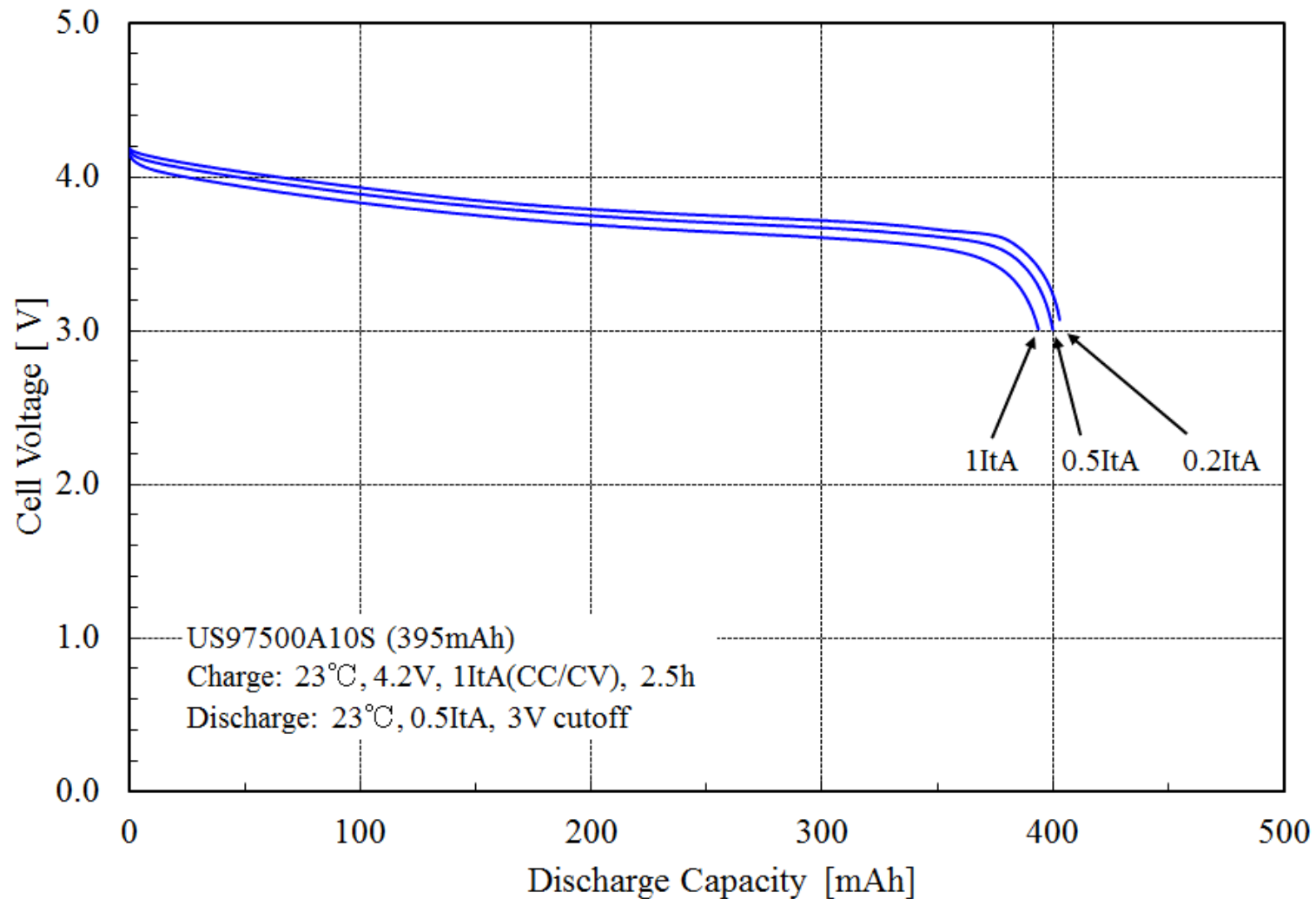
Charge Time : 2.5 h

Ambiance Temperature: 23 °C

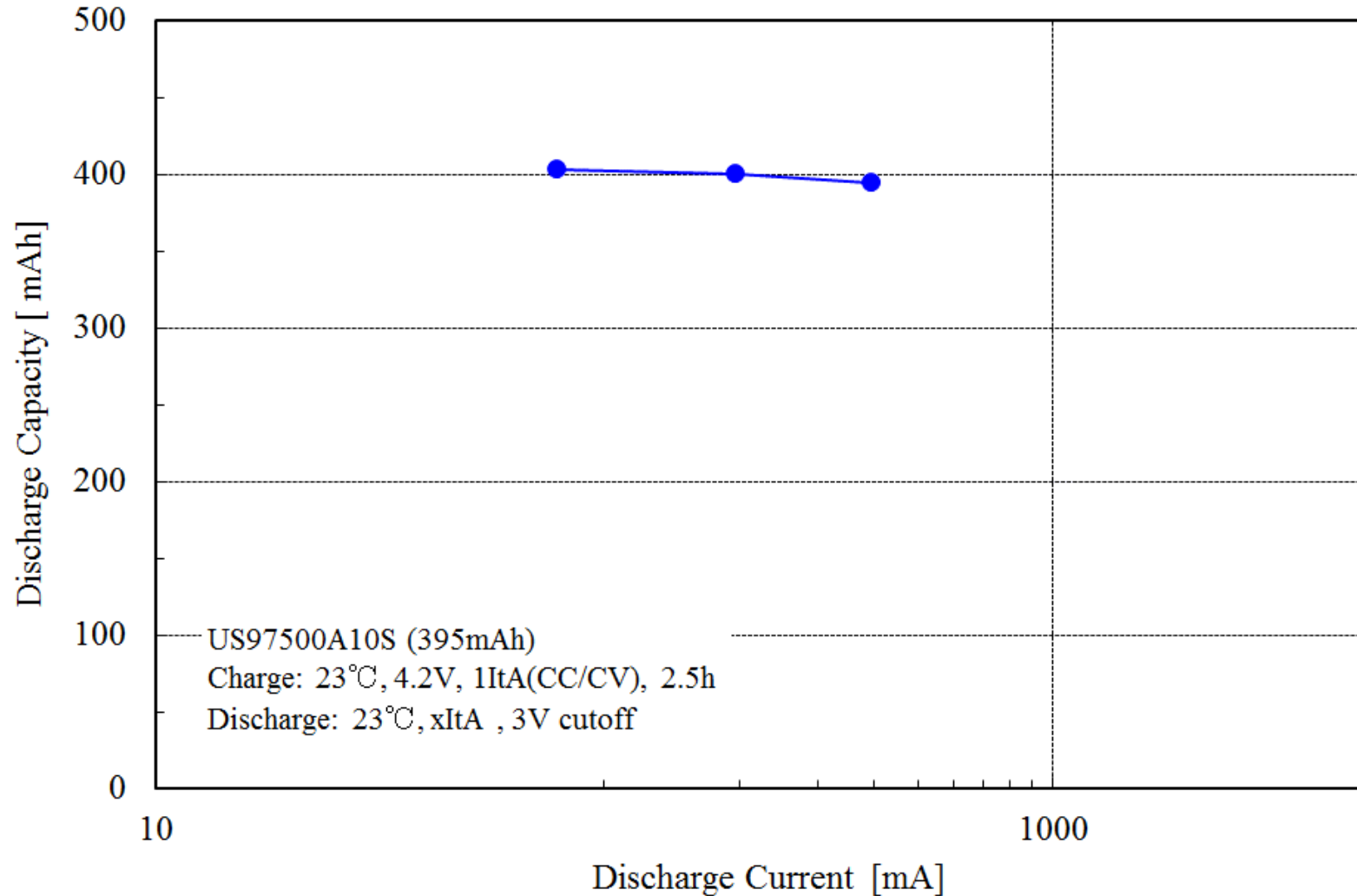
Charging Profile



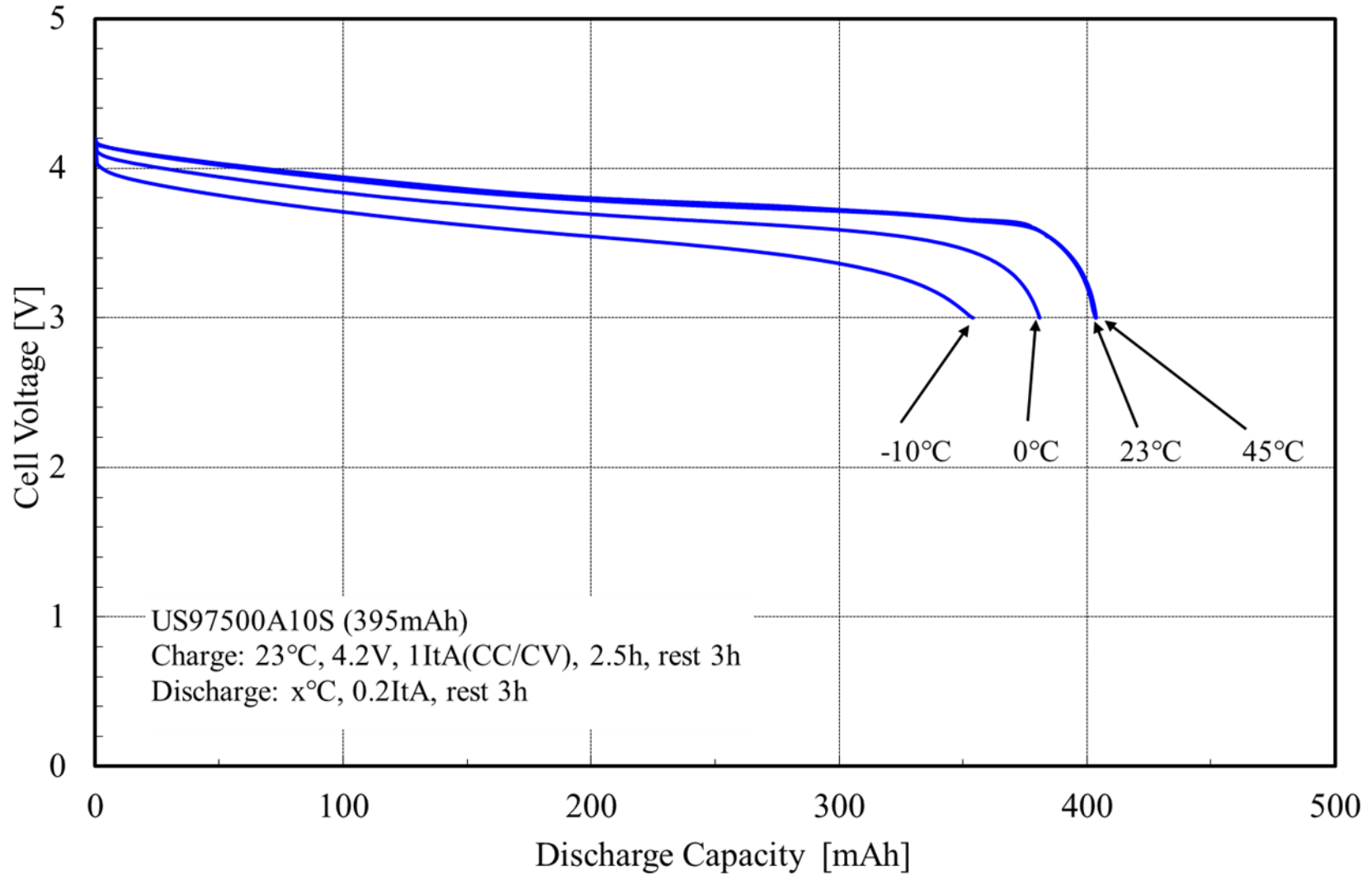
Discharging Profile



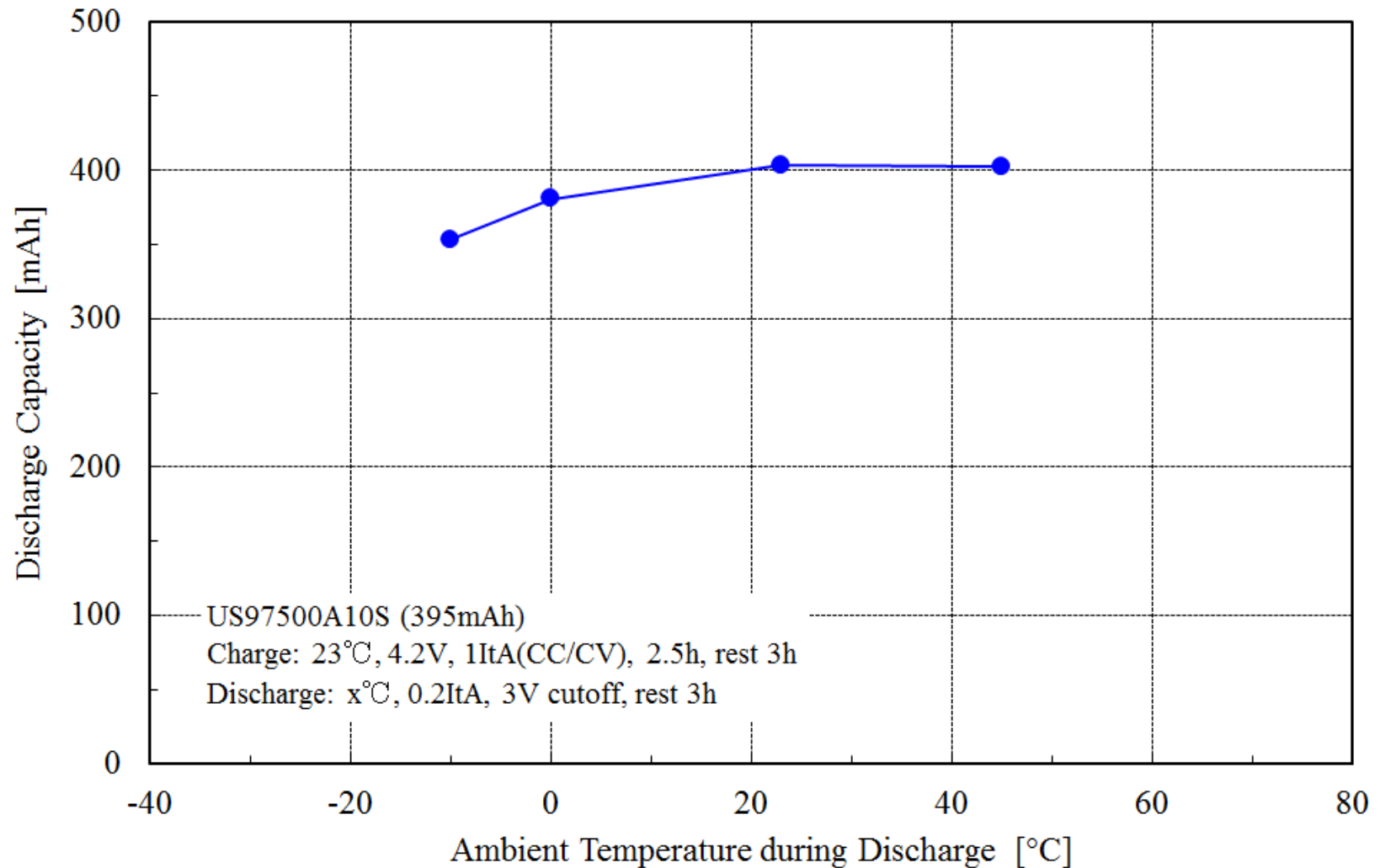
Drain Capability



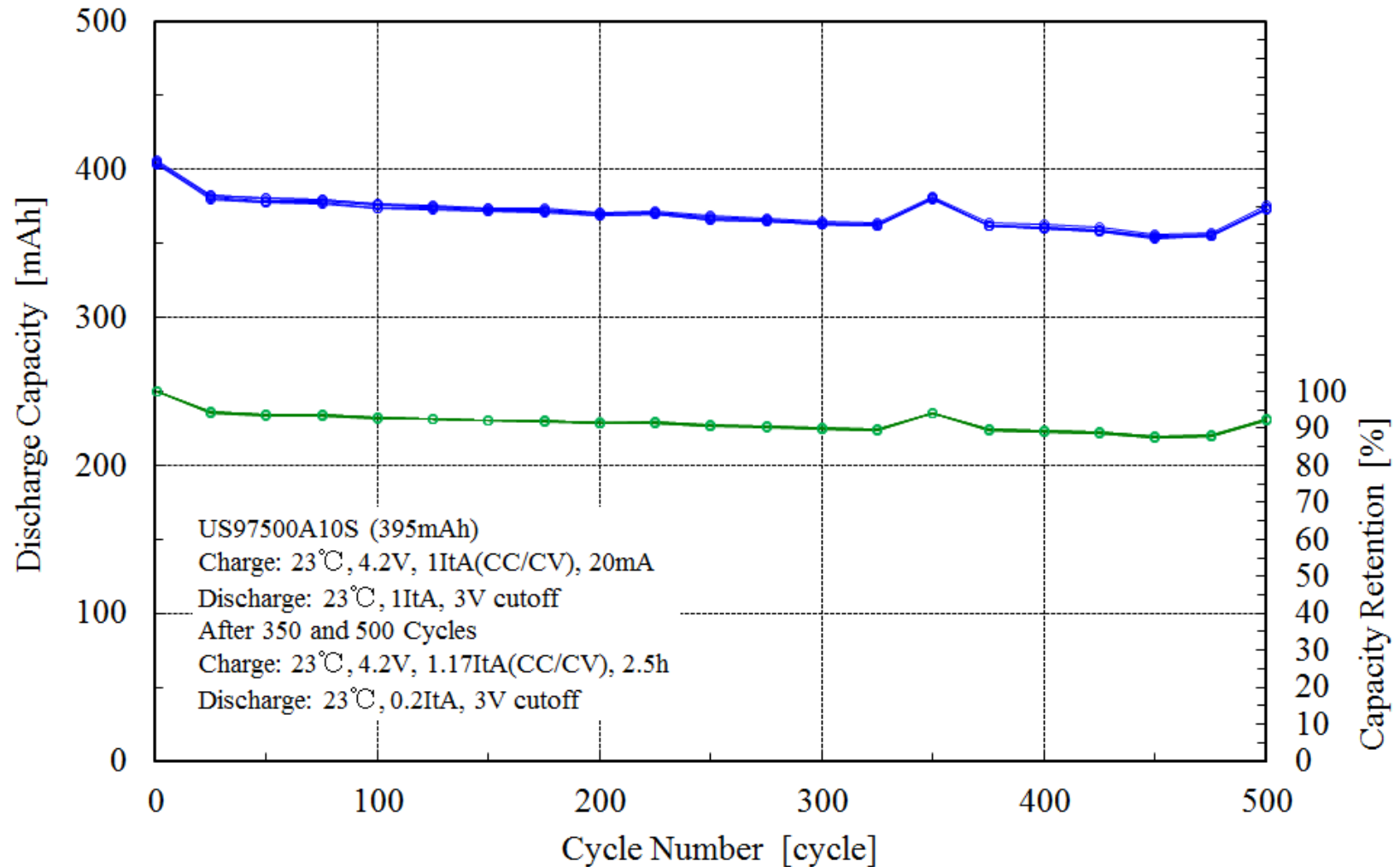
Discharging Profile



Discharge Temperature Performance



Cycle Performance



Cell Size (US97500A10S) After terrace forming

