

1. General

1.1 Scope

This specification applies to type

: US415085BH7 Lithium Ion Polymer Rechargeable Battery

1.2 Name and Code

1.2.1 Cell Name : US415085BH7

1.2.2 Model Number : US415085BH7

1.2.3 Code : 49943421

: 49943456 (SOC30% less than)

1.3 Cell Shape and Weight

1.3.1 Cell Shape : Polymer

1.3.2 Size : Thickness 4.1 mm max
Width 49.78 mm max
Length(without Tab) 84.64 mm max

1.3.3 Weight : 41.7 g (typical)

1.4 Reference test current

1.0 ItA: 2840 mA

1.5 Safety Regulation

Murata acquired UL1642

2. Performance

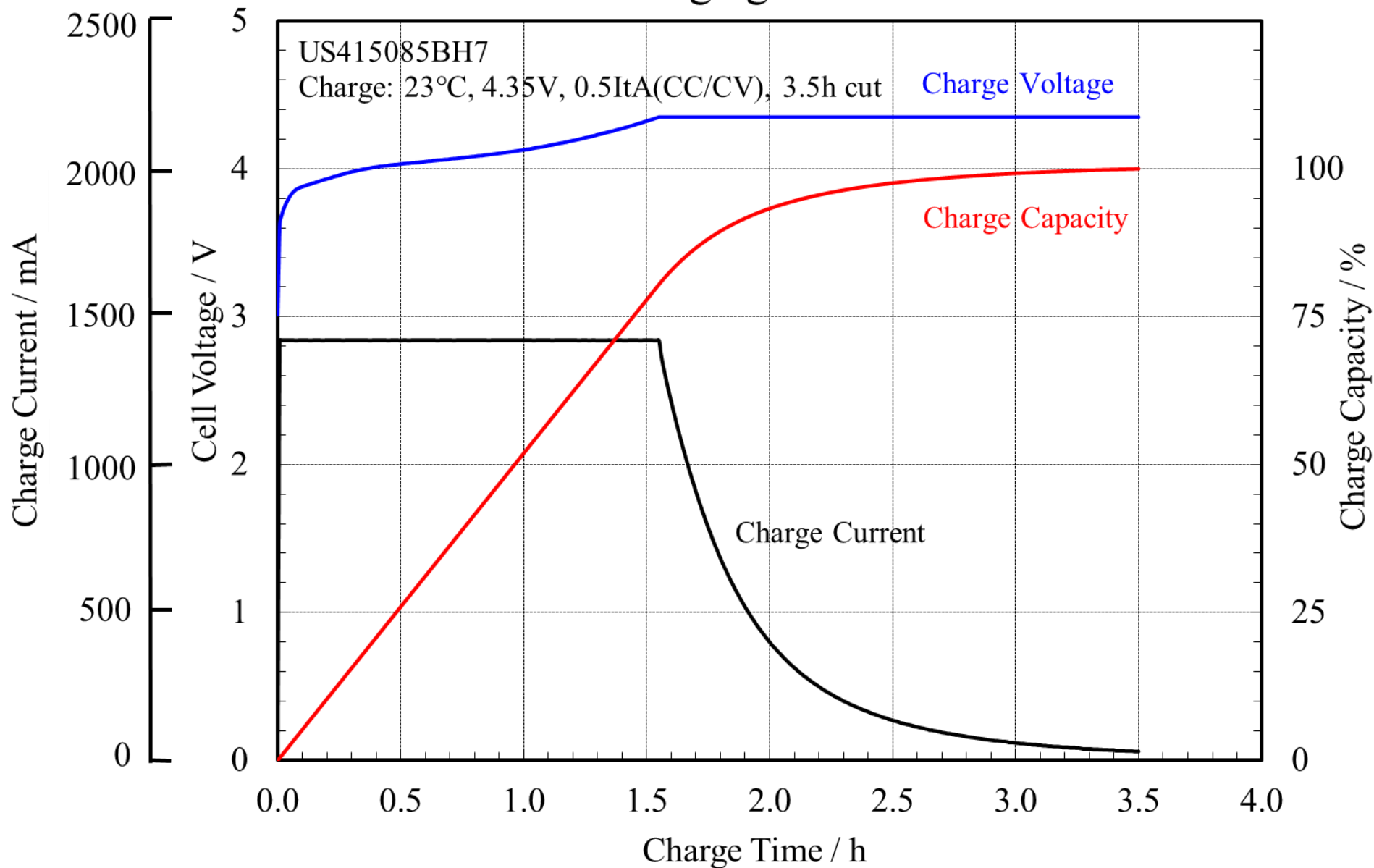
at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	2760mAh	average capacity 3.8 V (average discharge voltage)
	10.59Wh	
Rated Capacity (0.2ItA discharge)	2690mAh	minimum capacity
	10.22Wh	
Capacity at 0.5ItA	2600mAh	average capacity
	9.77Wh	
Capacity at 1.0ItA	2450mAh	average capacity
	8.96Wh	
Nominal Voltage	3.8 V	
Internal Impedance	25 mΩ	measured by AC1 kHz
Cycle Performance	80% of Initial capacity at 500 cycles	0.5 ItA discharge rate

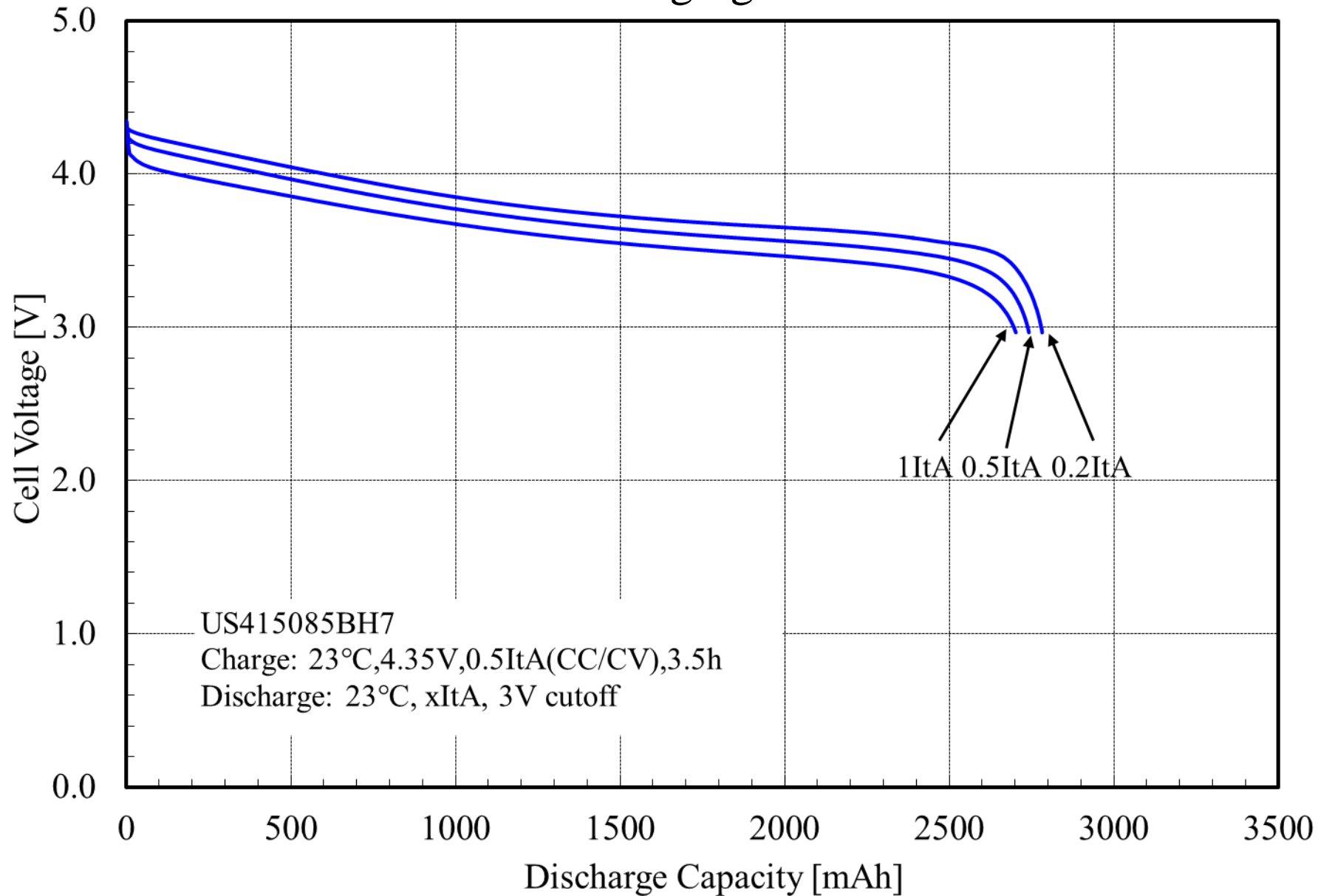
*Standard Charge Condition

Charge Method : constant current / constant voltage
Charge Up Voltage : 4.35 ± 0.05 V
Charge Current : 1.42 A
Charge Time : 3.5 h
Ambiance Temperature : 23 °C

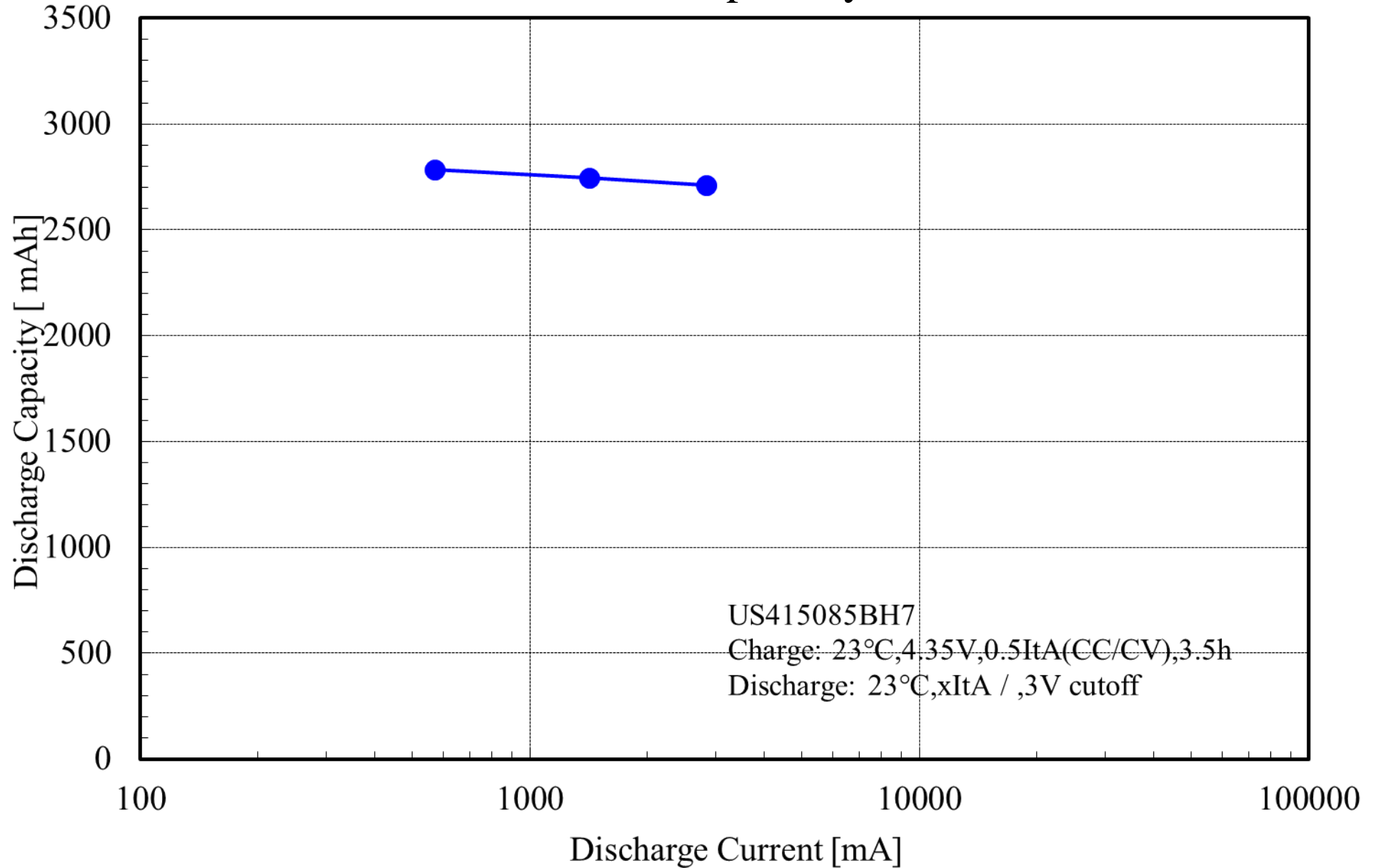
Charging Profile



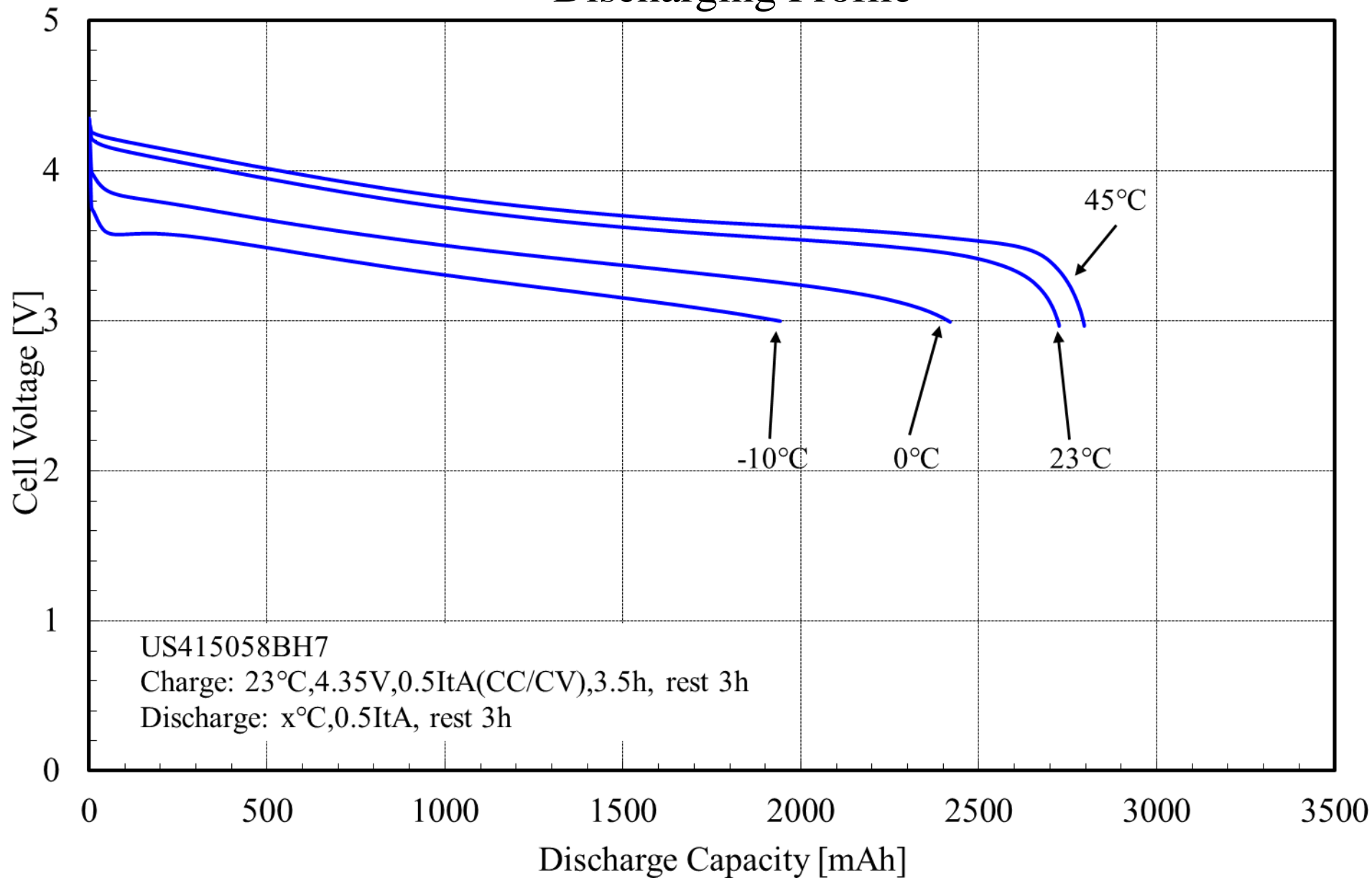
Discharging Profile



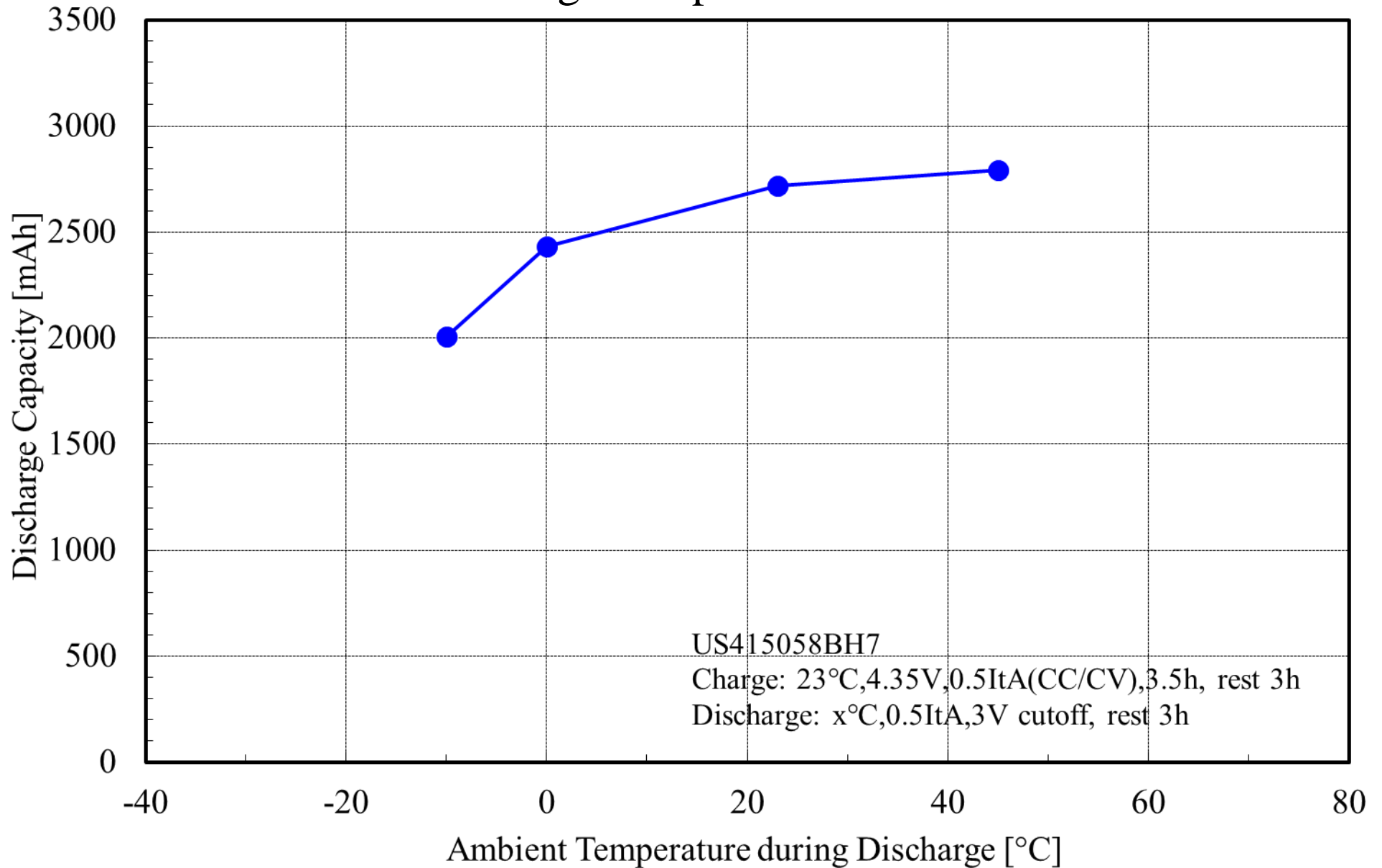
Drain Capability



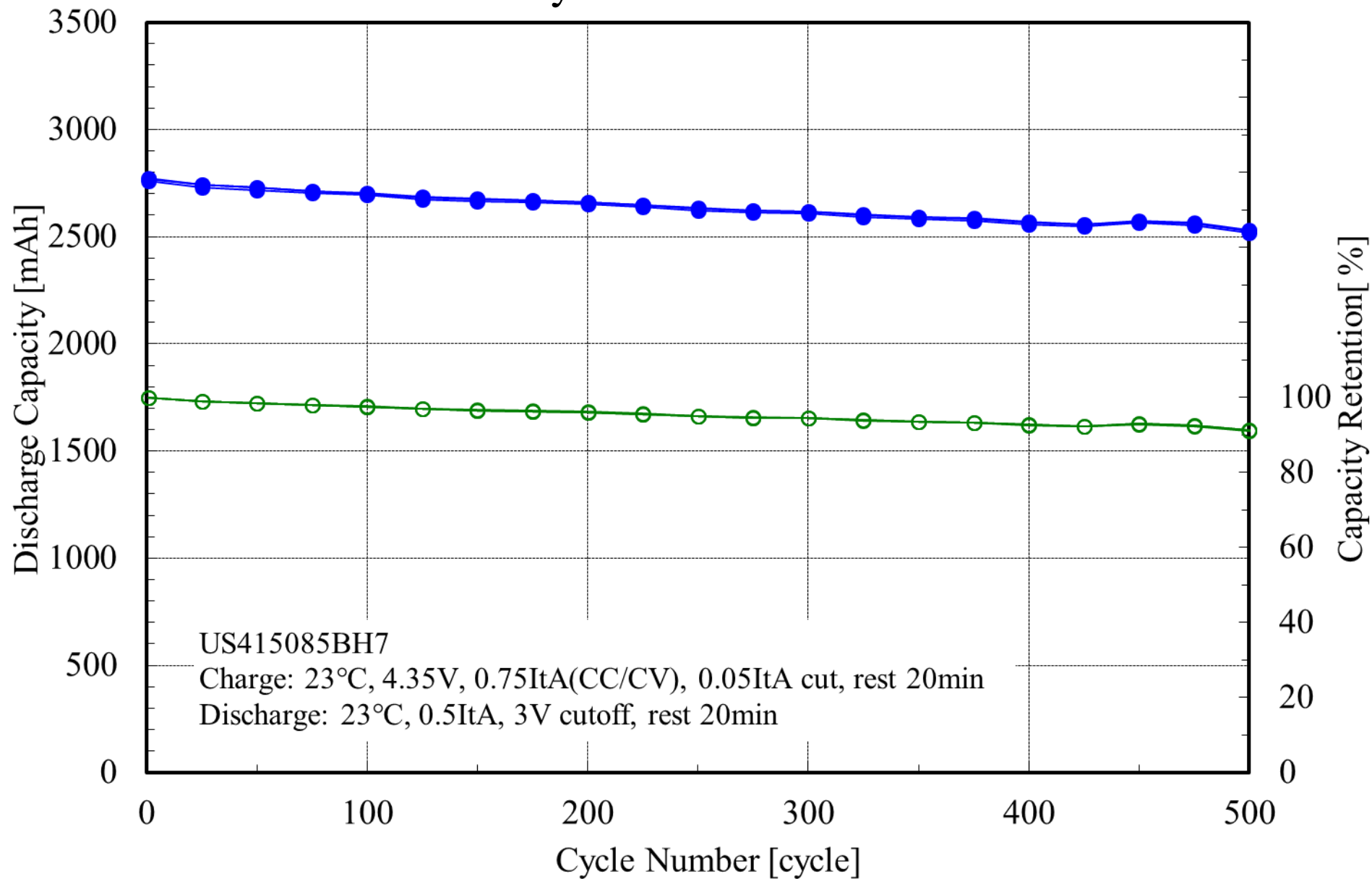
Discharging Profile



Discharge Temperature Performance



Cycle Performance



Cell Size (US415085BH7)

