

1. General

1.1 Scope

This specification applies to type

: US416775H5 Lithium Ion Polymer Rechargeable Battery

1.2 Name and Code

1.2.1 Cell Name : US416775H5

1.2.2 Model Number : US416775H5

1.2.3 Code : 49941936

1.3 Cell Shape and Weight

1.3.1 Cell Shape : Polymer

1.3.2 Size : Thickness 4.08 max
Width 66.5 max
Length(without Tab) 74.2 max

1.3.3 Weight : 48.5 (typical)

1.4 Reference test current

1.0 ItA: 3010

1.5 Safety Regulation

Murata acquired UL1642

2. Performance

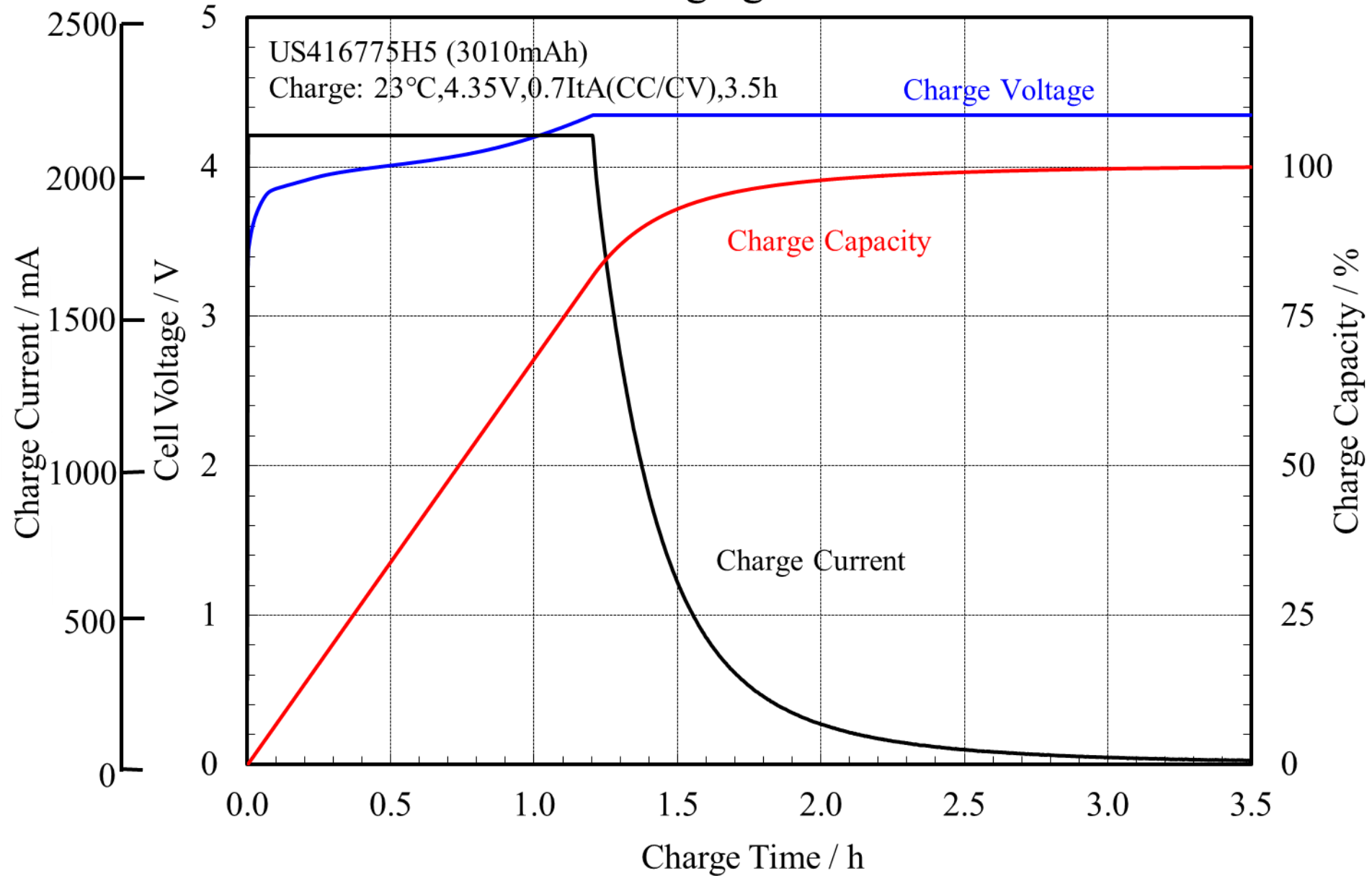
at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	3100mAh	average capacity 3.8 V (average discharge voltage)
	12.04 Wh	
Rated Capacity (0.2ItA discharge)	3010mAh	minimum capacity
	11.78 Wh	
Capacity at 0.5ItA	3008mAh	average capacity
	11.36 Wh	
Capacity at 1.0ItA	2889mAh	average capacity
	10.67 Wh	
Nominal Voltage	3.8	
Internal Impedance	35 mΩ	measured by AC1 kHz
Cycle Performance	80% of Initial capacity at 500 cycles	0.5 ItA discharge rate

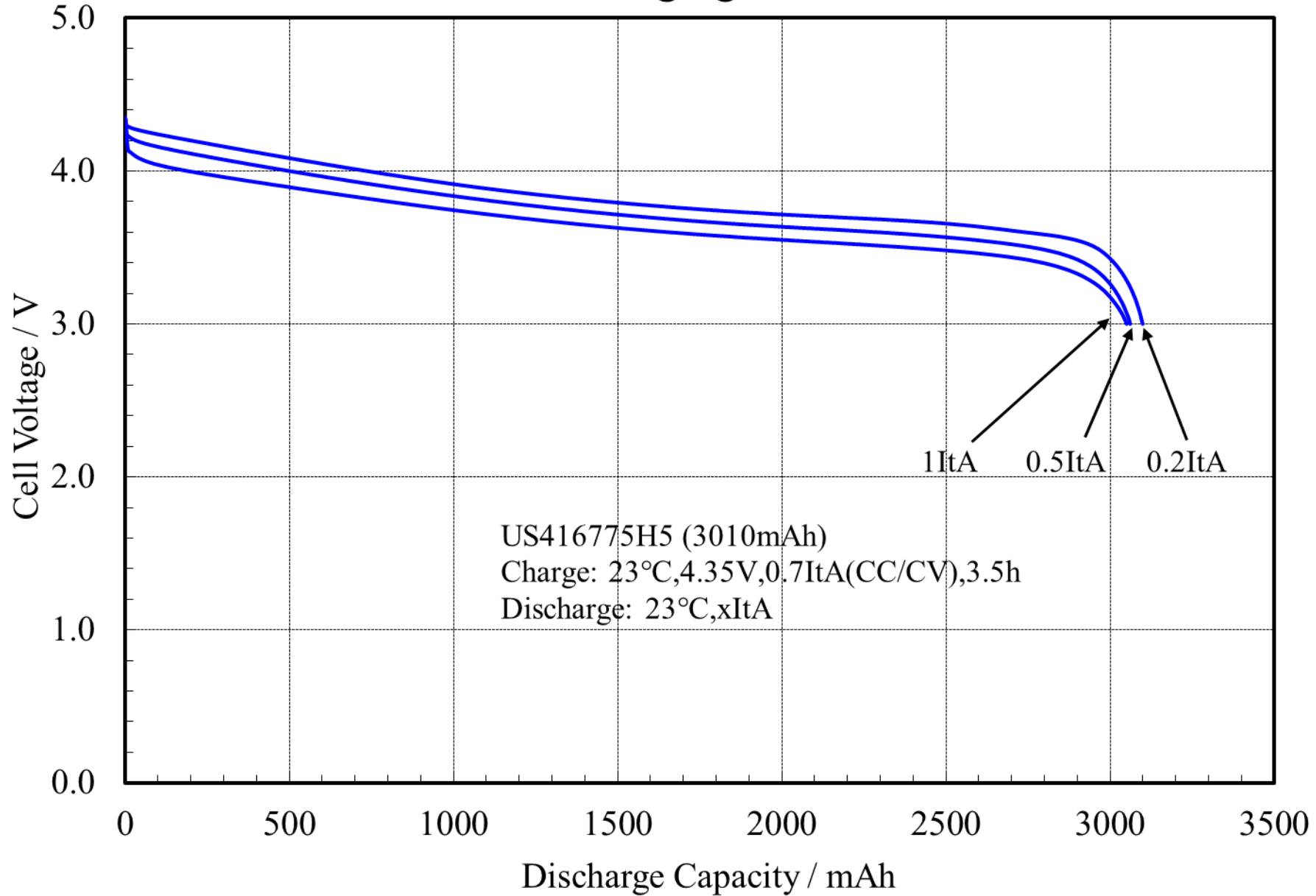
***Standard Charge Condition**

Charge Method : constant current / constant voltage
Charge Up Voltage : 4.35 ± 0.05
Charge Current : 2.107 A
Charge Cut off Current : 3.5 h
Ambiance Temperature : 23 °C

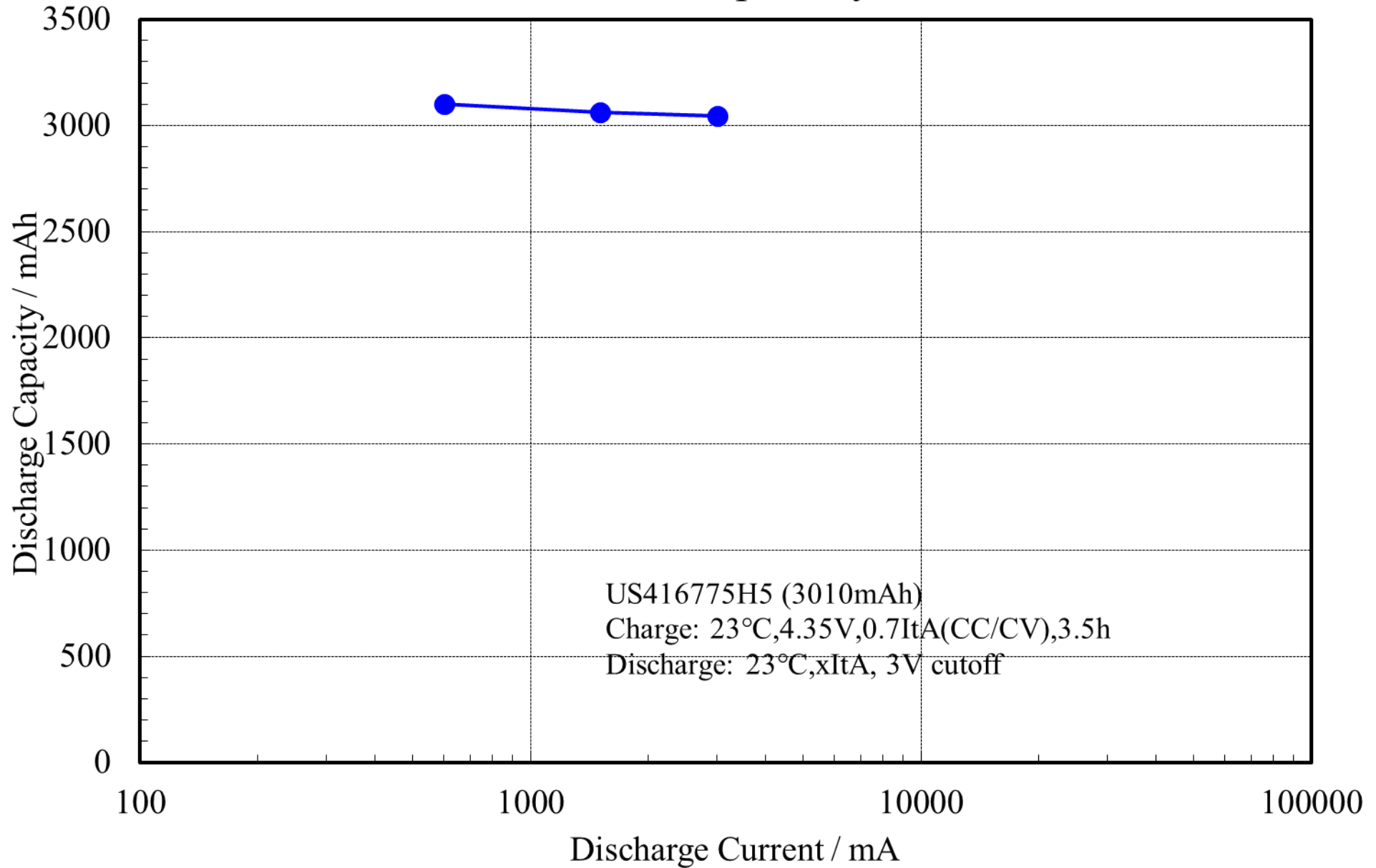
Charging Profile



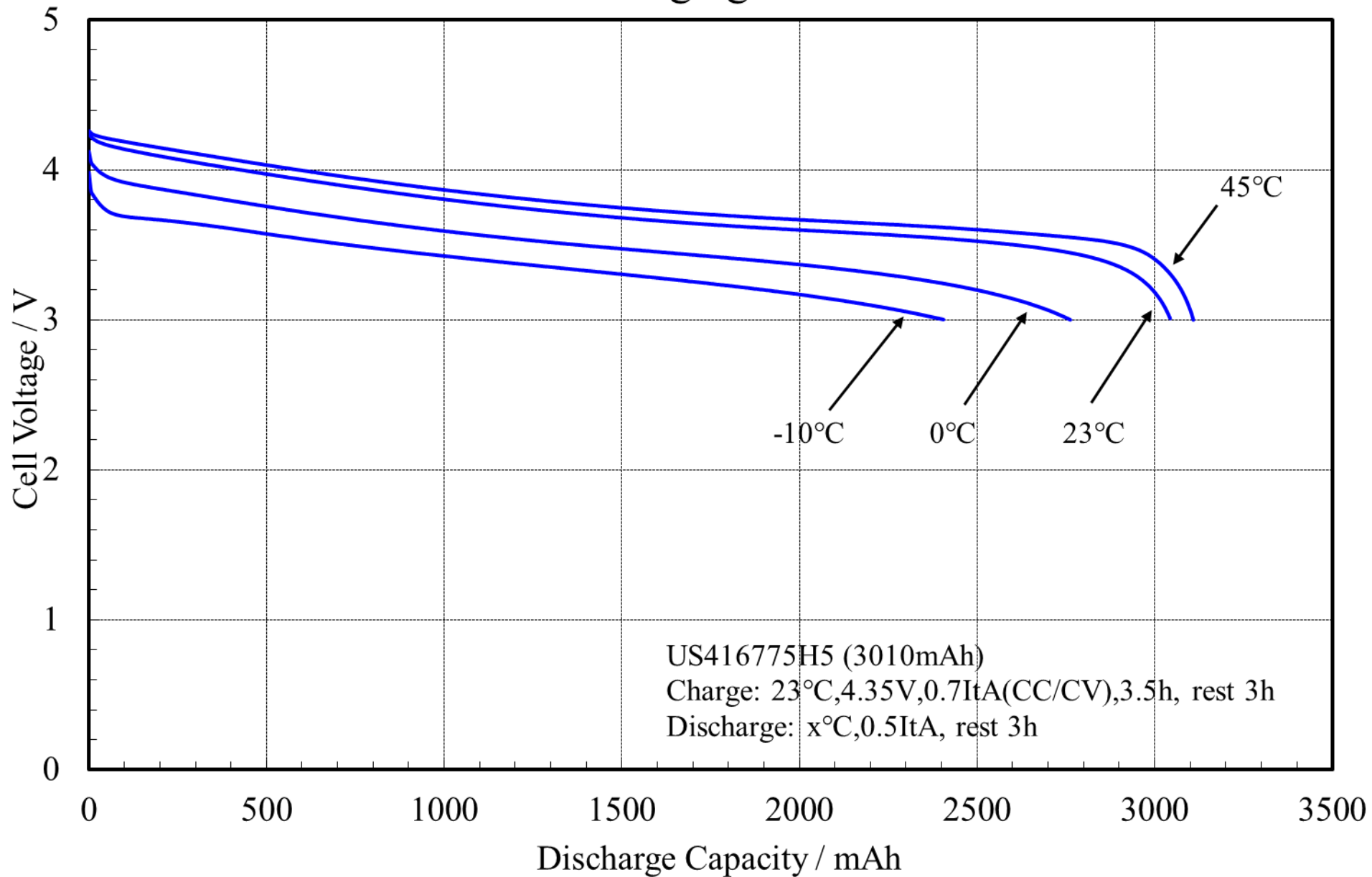
Discharging Profile



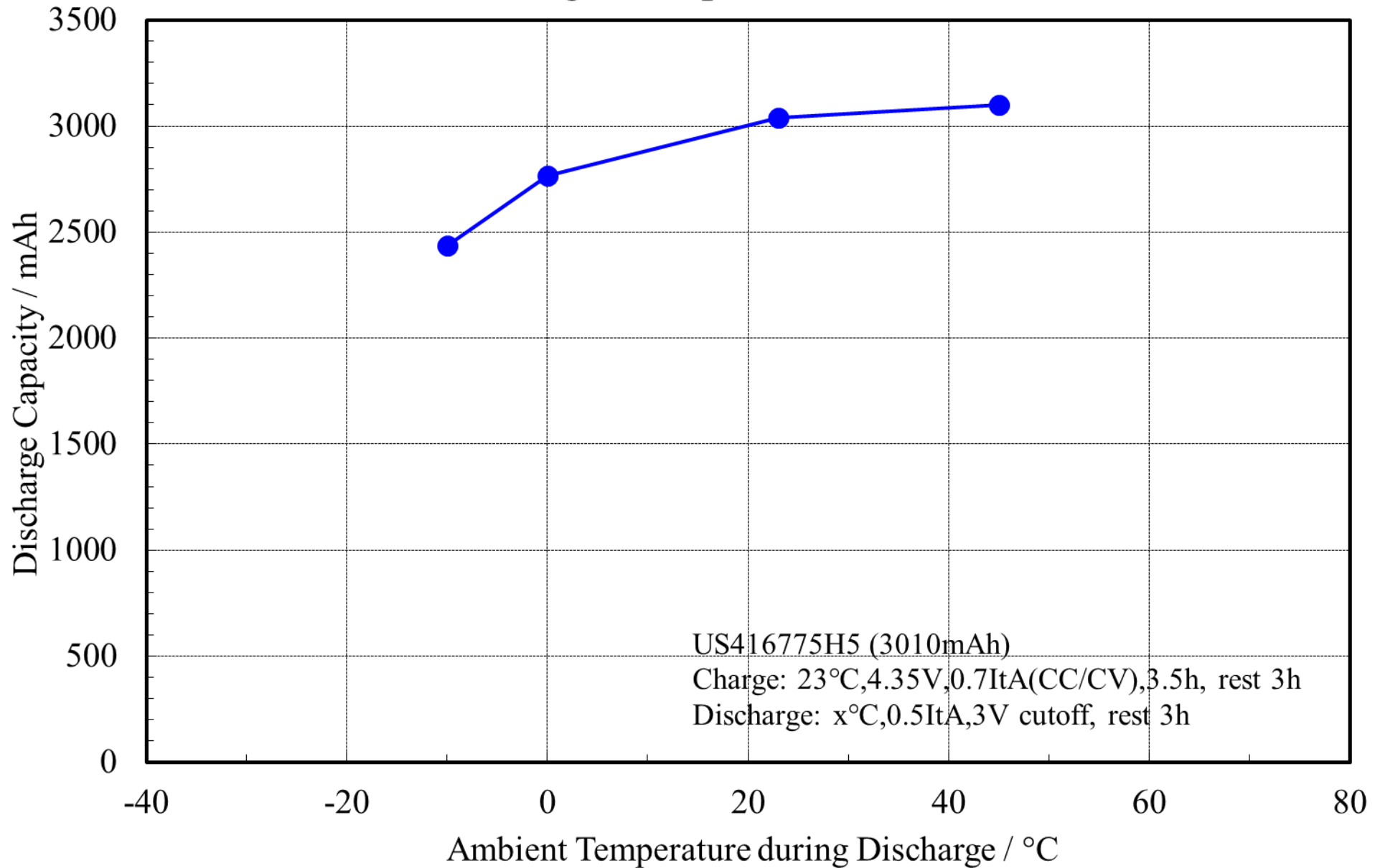
Drain Capability



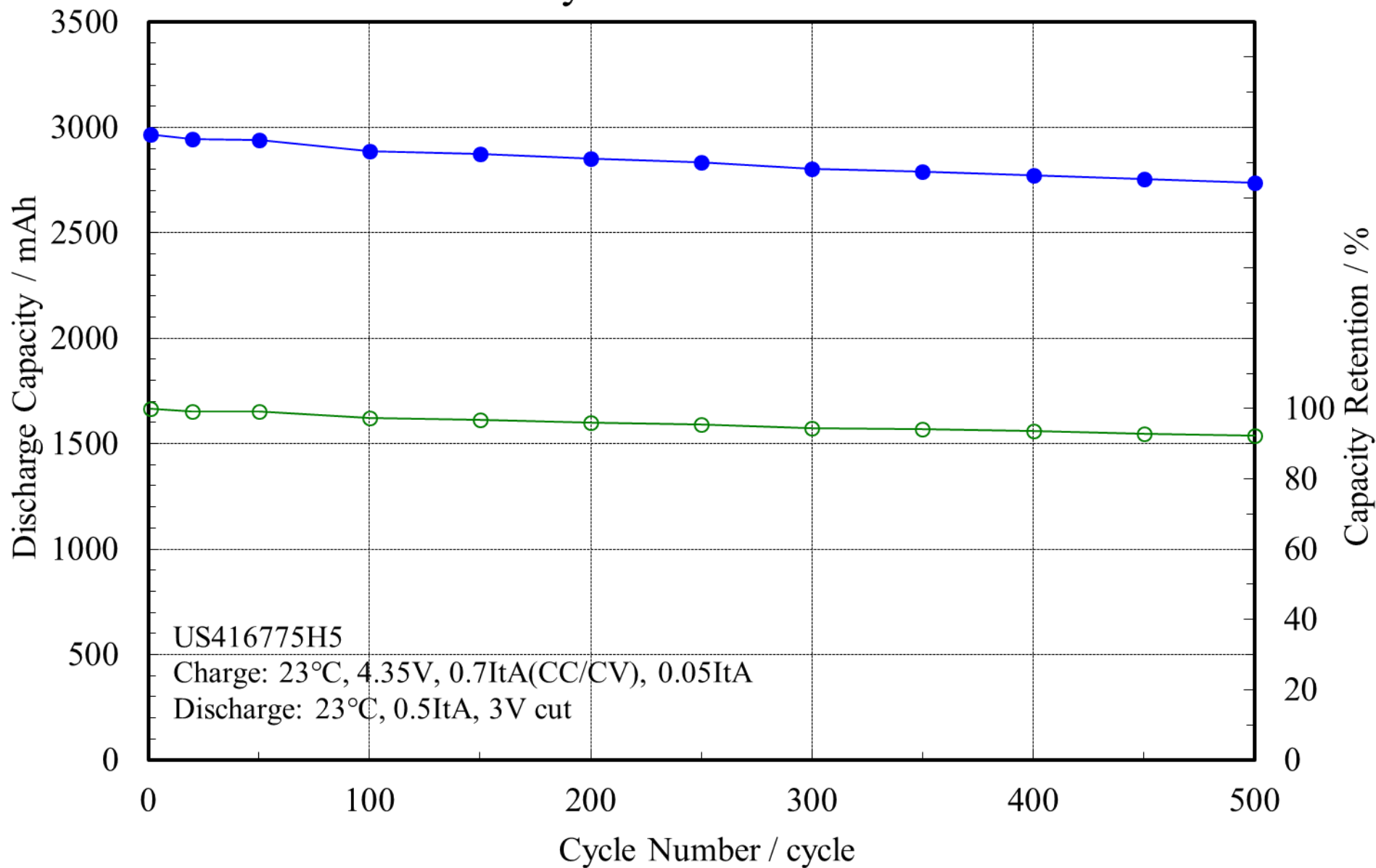
Discharging Profile



Discharge Temperature Performance



Cycle Performance



Cell Size(US416775H5)

