1. General

1.1 Scope

1.2 Name and Code

1.2.1 Cell Name : US322830
1.2.2 Model Number : US322830A10S
1.2.3 SONY Code : 49926080

1.3 Cell Shape and Weight

1.3.1 Cell Shape : Polymer
1.3.2 Size : Thickness 3.22mm max
Width 28.0mm max
Length(without tab) 30.0mm max
1.3.3 Weight : 5.0g (typical)

1.4 Safety Regulation **:** acquired UL1642.

2. Performance

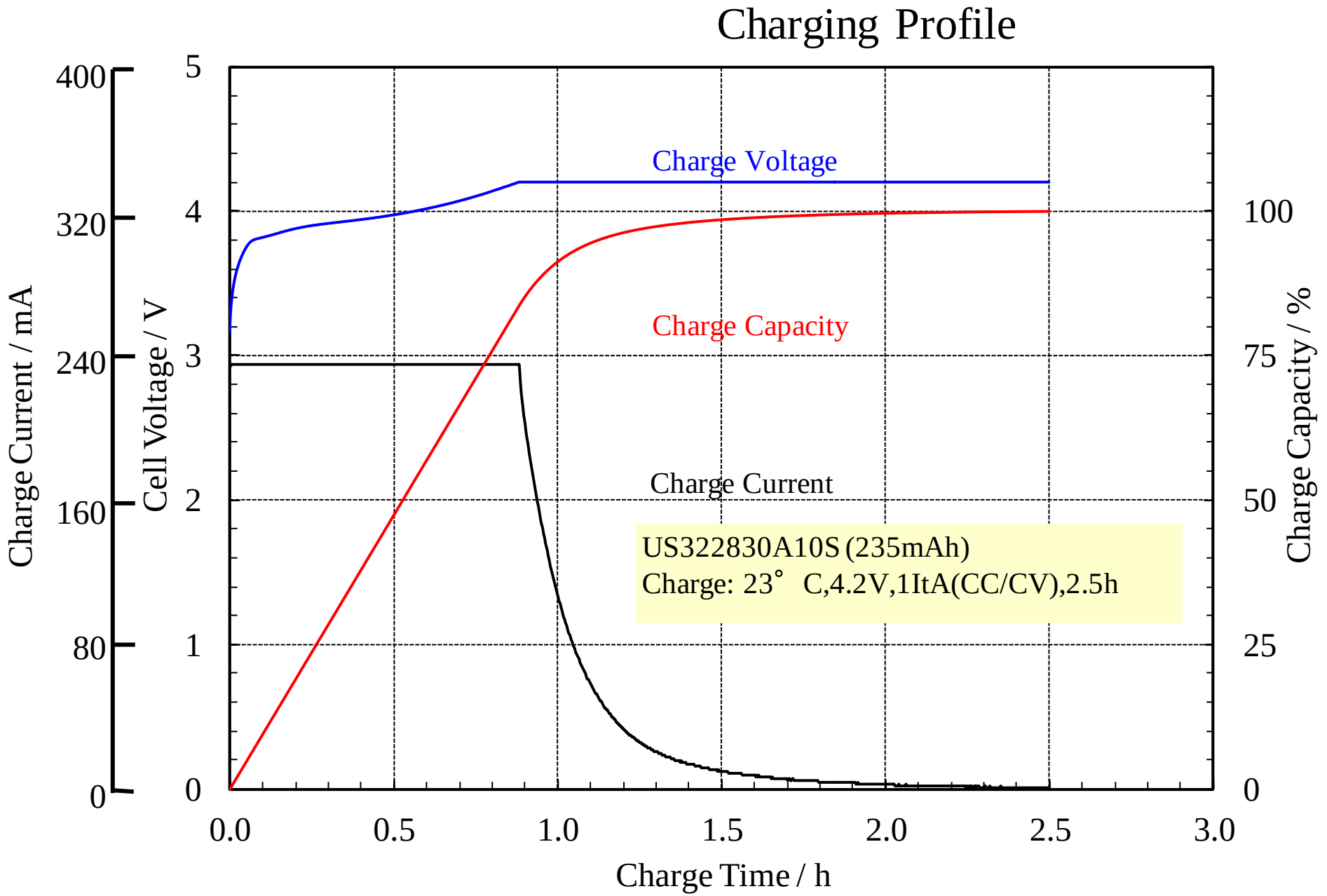
at room temperature, 3.0V cut off

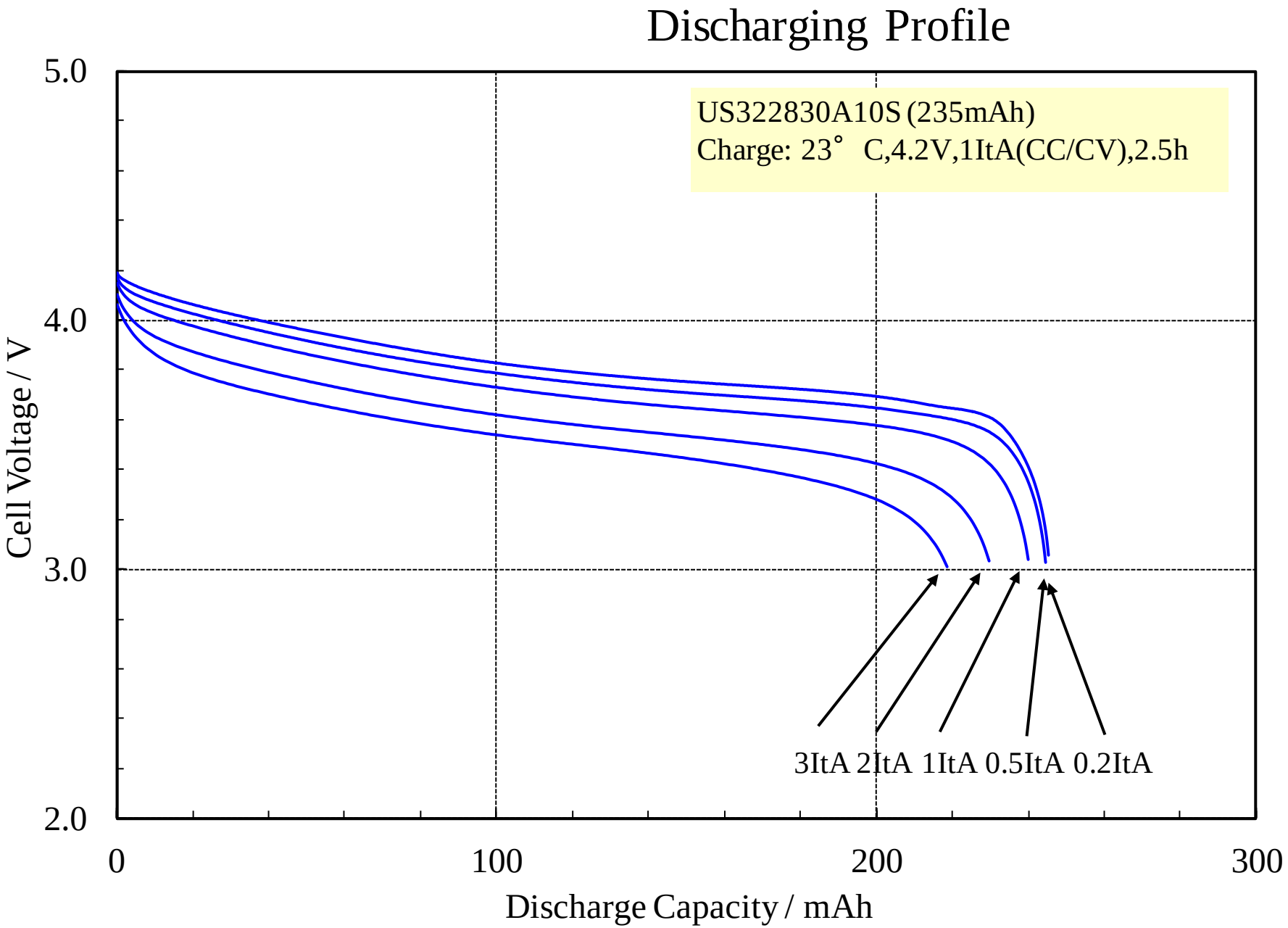
Nominal Capacity (0.2ItA discharge)	245mAh 0.89Wh	average capacity 3.70 V (average discharge voltage)
Rated Capacity (0.2ItA discharge)	235mAh 0.85Wh	minimum capacity
Capacity at 0.5ItA	232mAh 0.86Wh	average capacity
Capacity at 1.0ItA	221mAh 0.81Wh	average capacity
Nominal Voltage	3.70V	
Internal Impedance	85mΩ	measured by AC1kHz
Cycle Performance	80% of Initial capacity at 500 cycles	0.5ItA discharge rate

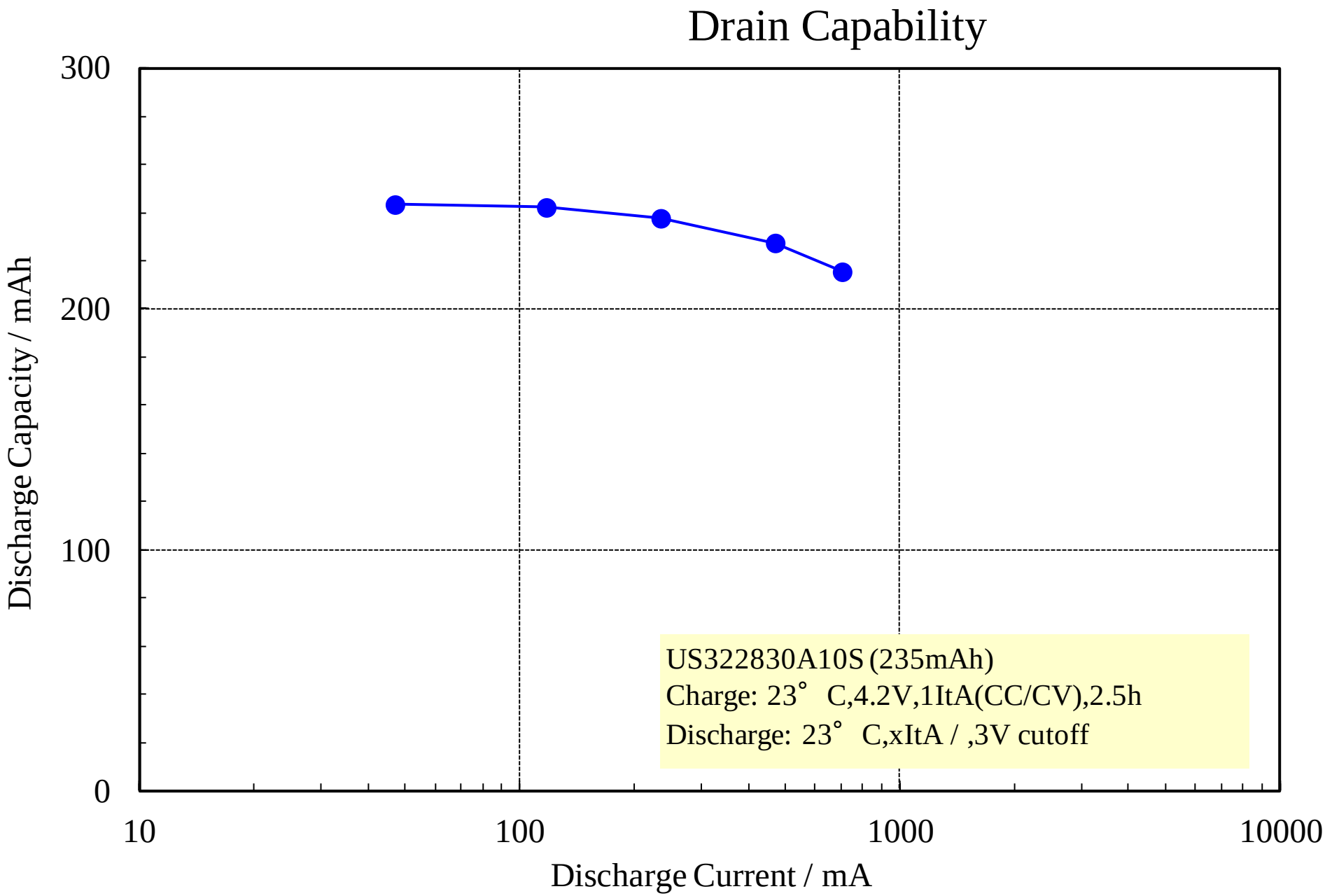
* Standard Charge Condition

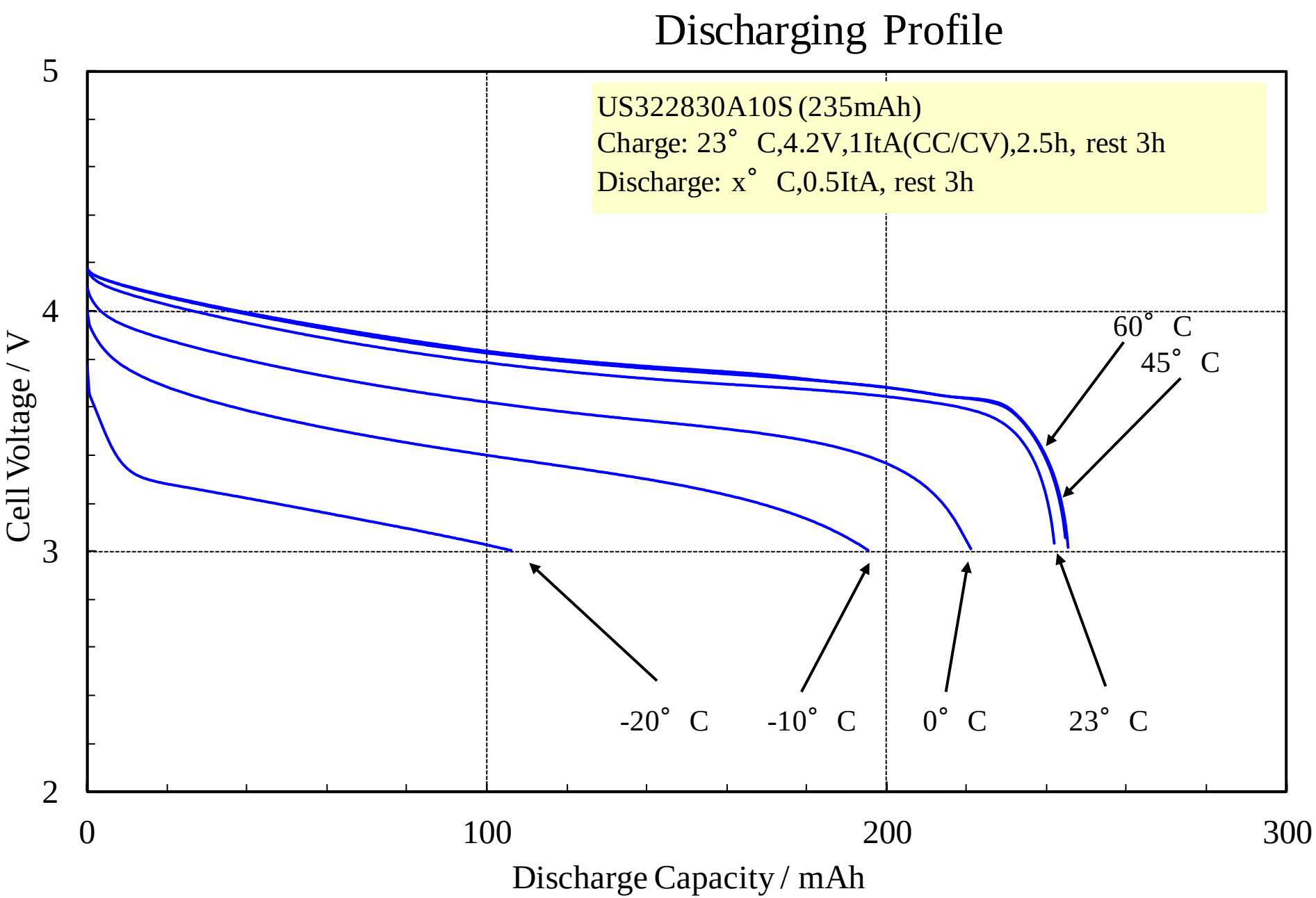
Charge Method : constant current constant voltage
Charge Up Voltage : 4.2 V±0.05V
Charge Current : 235mA
Charge Time : 2.5hours charge
Ambiance Temperature : 23℃

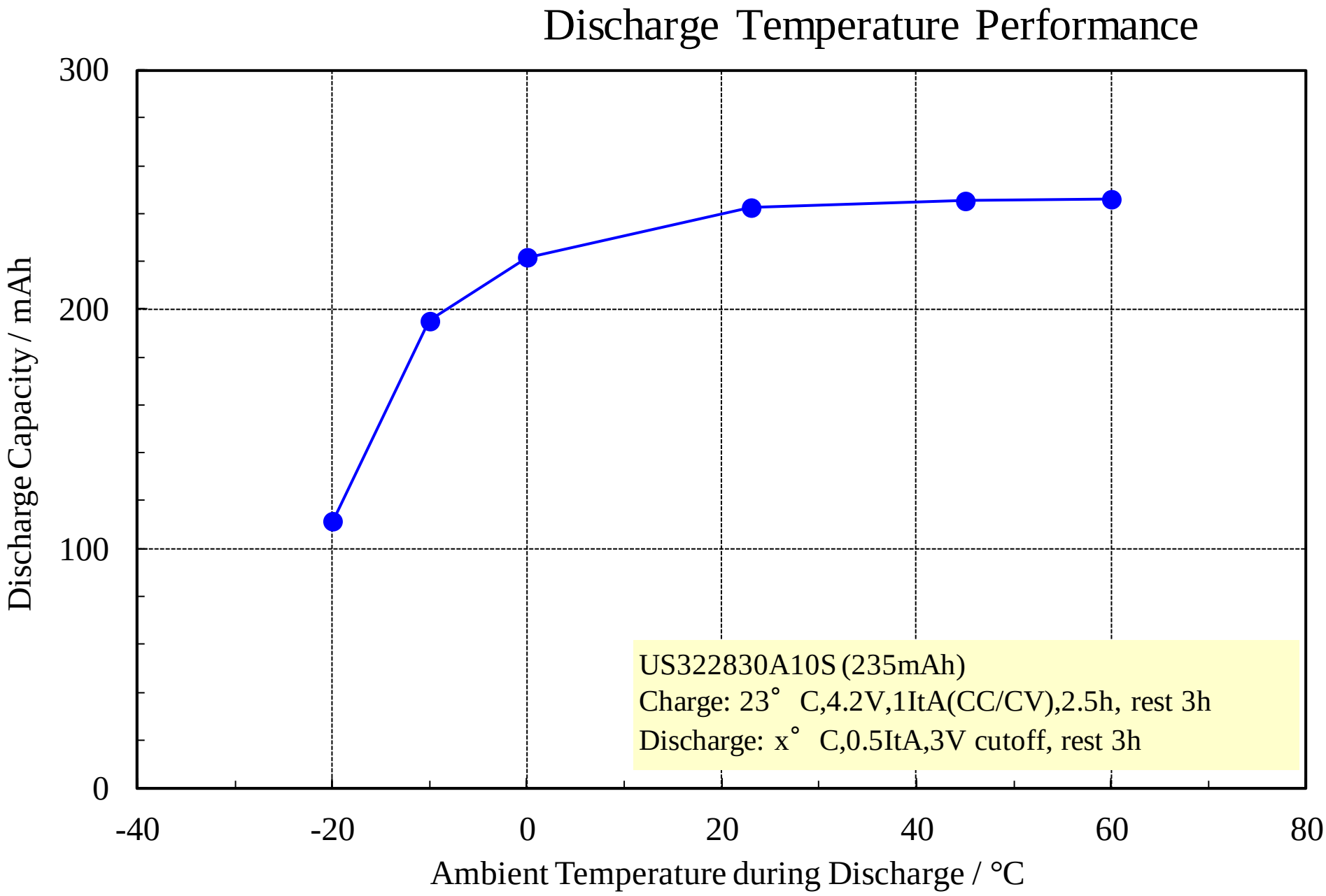
•1.0ItA : 235mA

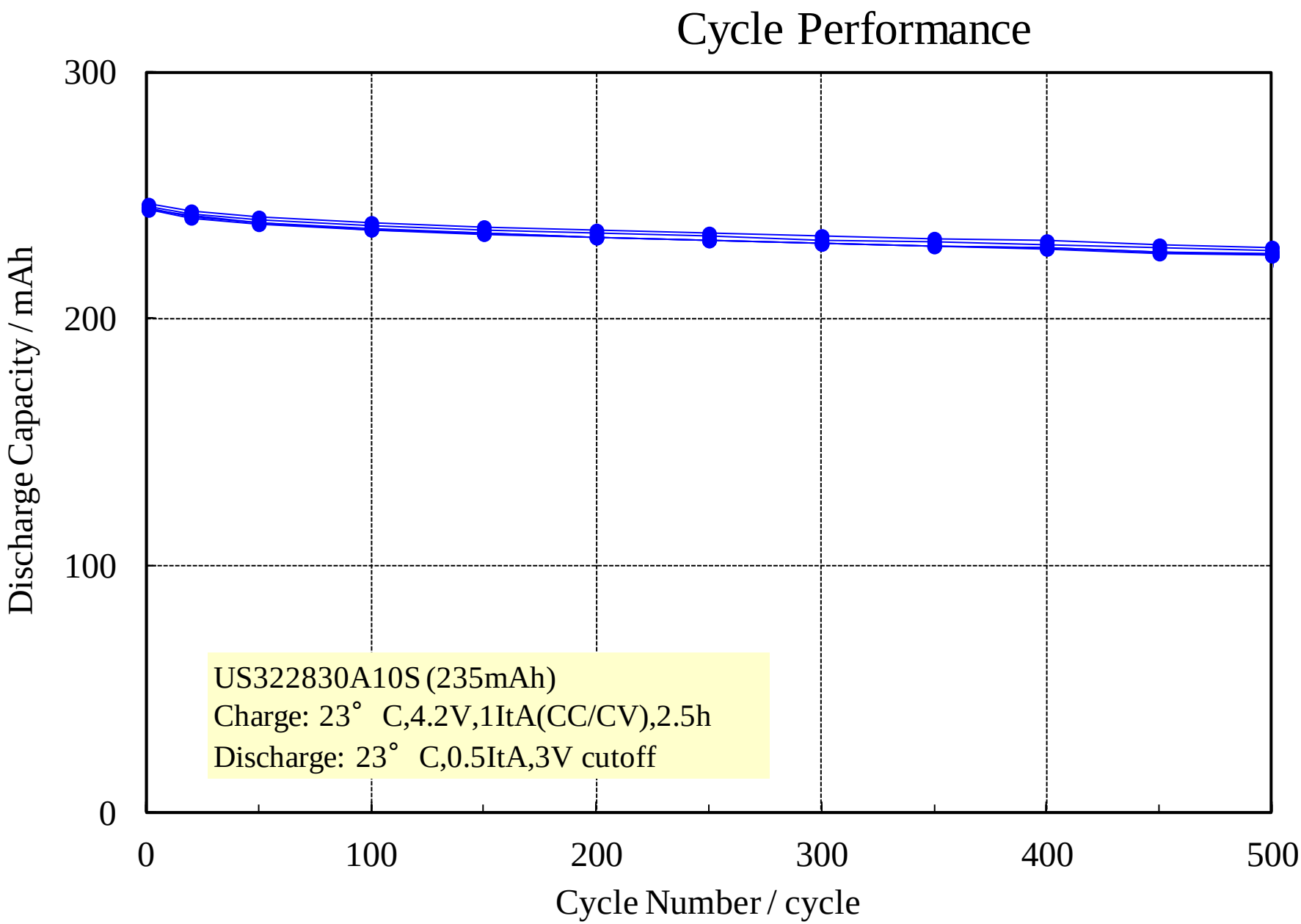

Charging Profile
Charge Voltage
Charge Capacity
Charge Current
US322830A10S (235mAh)
Charge: 23° C,4.2V,1ItA(CC/CV),2.5h
Charge Current / mA
Cell Voltage / V
Charge Capacity / %
Charge Time / h
400
320
240
160
80
0
5
4
3
2
1
0
100
75
50
25
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0


Discharging Profile
US322830A10S (235mAh)
Charge: 23° C,4.2V,1ItA(CC/CV),2.5h
5.0
4.0
3.0
2.0
Cell Voltage / V
0
100
200
300
Discharge Capacity / mAh
3ItA 2ItA 1ItA 0.5ItA 0.2ItA


Drain Capability
300
200
100
0
Discharge Capacity / mAh
10
100
1000
10000
Discharge Current / mA
US322830A10S (235mAh)
Charge: 23° C,4.2V,1ItA(CC/CV),2.5h
Discharge: 23° C,xItA / ,3V cutoff


Discharging Profile
US322830A10S (235mAh)
Charge: 23° C,4.2V,1ItA(CC/CV),2.5h, rest 3h
Discharge: x° C,0.5ItA, rest 3h
60° C
45° C
-20° C
-10° C
0° C
23° C
Cell Voltage / V
5
4
3
2
0
100
200
300
Discharge Capacity / mAh


Discharge Temperature Performance
300
200
100
0
Discharge Capacity / mAh
-40
-20
0
20
40
60
80
Ambient Temperature during Discharge / °C
US322830A10S (235mAh)
Charge: 23° C,4.2V,1ItA(CC/CV),2.5h, rest 3h
Discharge: x° C,0.5ItA,3V cutoff, rest 3h


Cycle Performance
300
200
100
0
Discharge Capacity / mAh
0
100
200
300
400
500
Cycle Number / cycle
US322830A10S (235mAh)
Charge: 23° C,4.2V,1ItA(CC/CV),2.5h
Discharge: 23° C,0.5ItA,3V cutoff

Cell Size（US322830A10S）

