

1. General

1.1 Scope

This specification applies to type
:US253450A10S Lithium Ion Polymer Rechargeable Battery

1.2 Name and Code

1.2.1 Cell Name : US253450
1.2.2 Model Number : US253450A10S
1.2.3 Code : 49918690

1.3 Cell Shape and Weight

1.3.1 Cell Shape : Polymer
1.3.2 Size : Thickness 2.53mm max
Width 34.0mm max
Length (without tab) 50.5mm max
1.3.3 Weight : 8.7 g (typical)

1.4 Reference test current

1.0ItA : 425mA

1.5 Safety Regulation

Acquired UL1642.

2. Performance

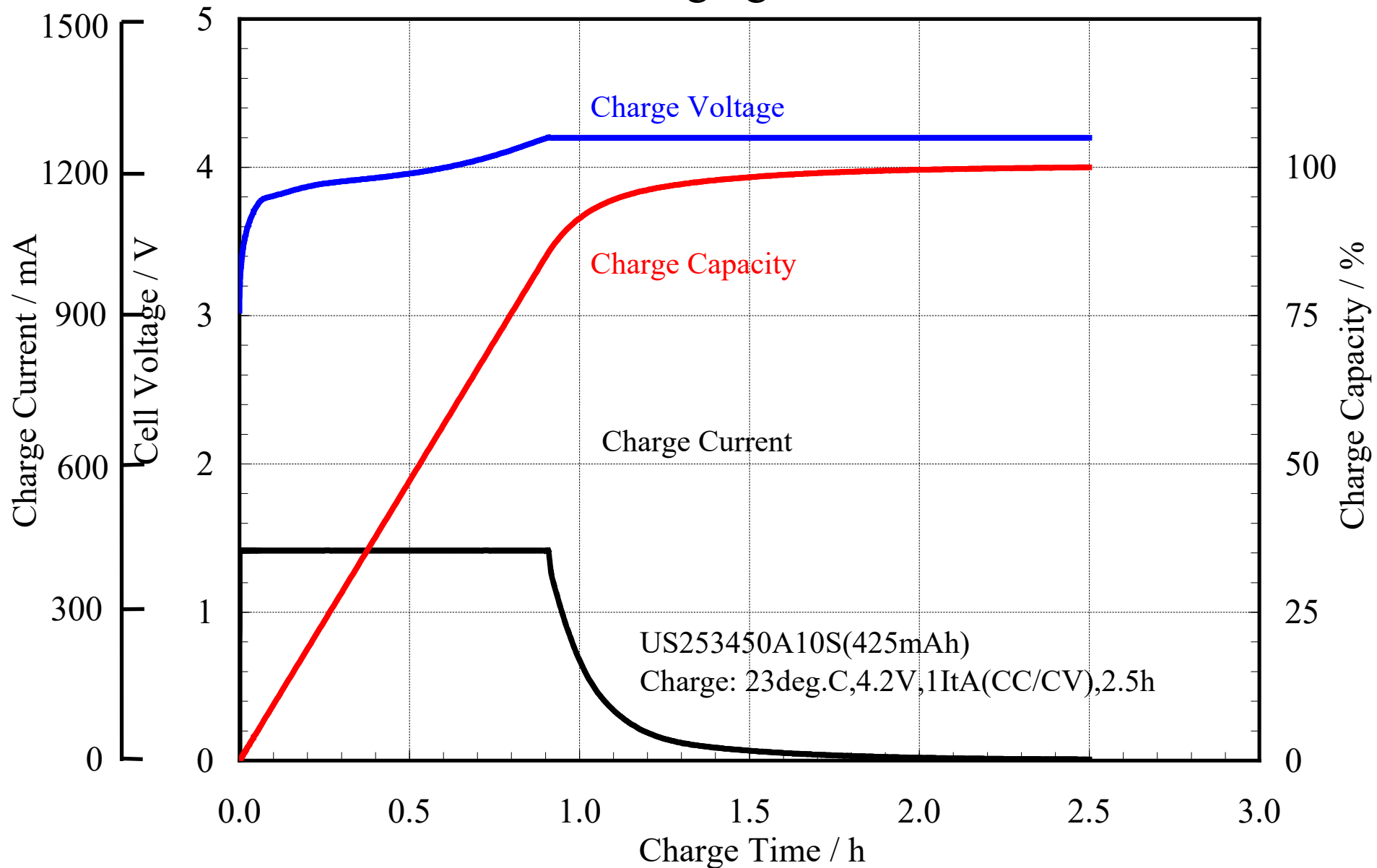
at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	445mAh 1.68Wh	average capacity 3.70 V (average discharge voltage)
Rated Capacity (0.2ItA discharge)	425mAh 1.60Wh	minimum capacity
Capacity at 0.5ItA	416mAh 1,55Wh	average capacity
Capacity at 1.0ItA	400mAh 1.43Wh	average capacity
Nominal Voltage	3.70V	
Internal Impedance	57mΩ	measured by AC1kHz
Cycle Performance	80% of initial capacity at 500 cycles	0.5ItA discharge rate

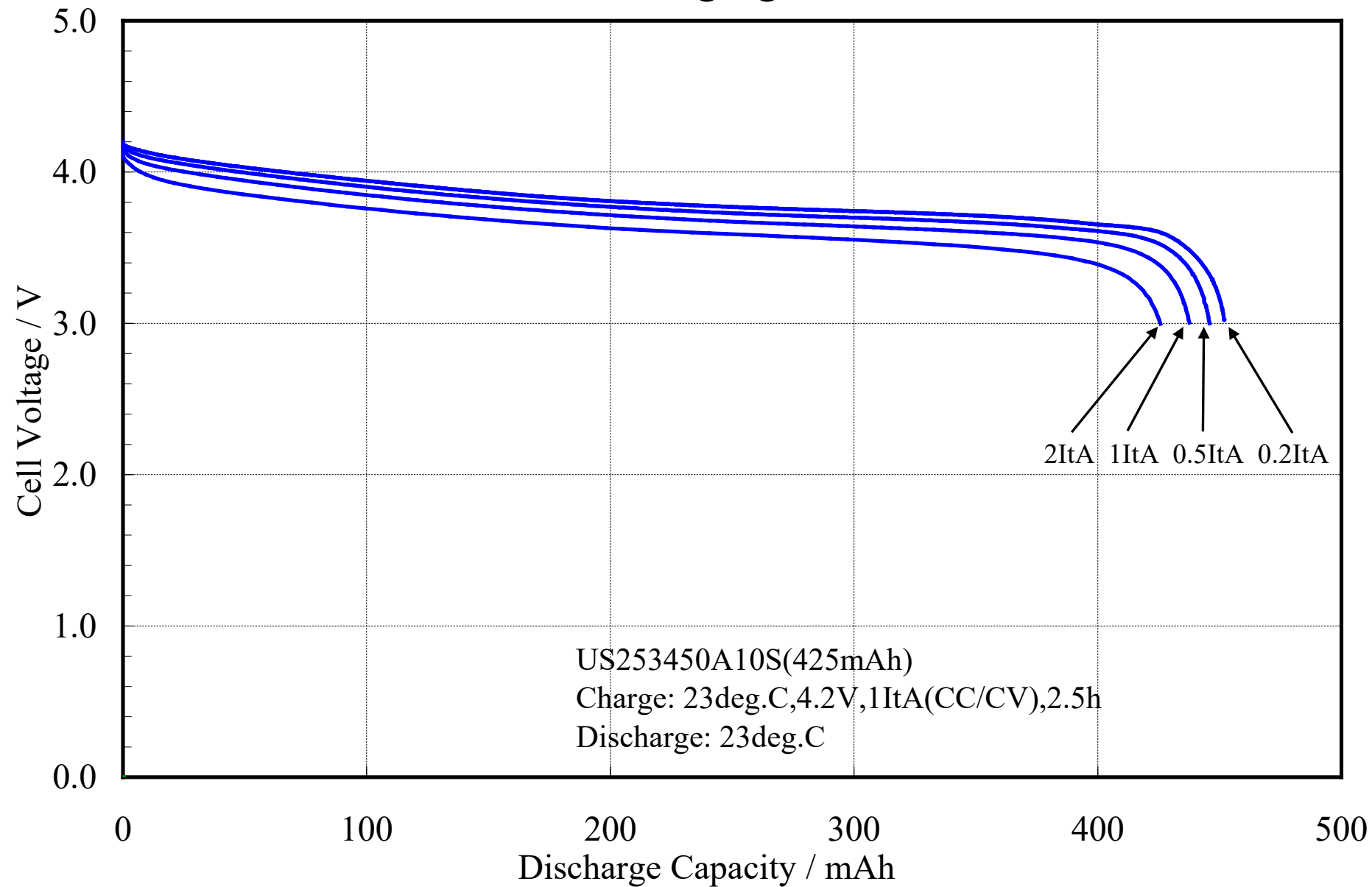
* Standard Charge Condition

Charge Method : constant current constant voltage
Charge Up Voltage : 4.2 V±0.05V
Charge Current : 0.425A
Charge Time : 2.5hours charge
Ambiance Temperature : 23°C

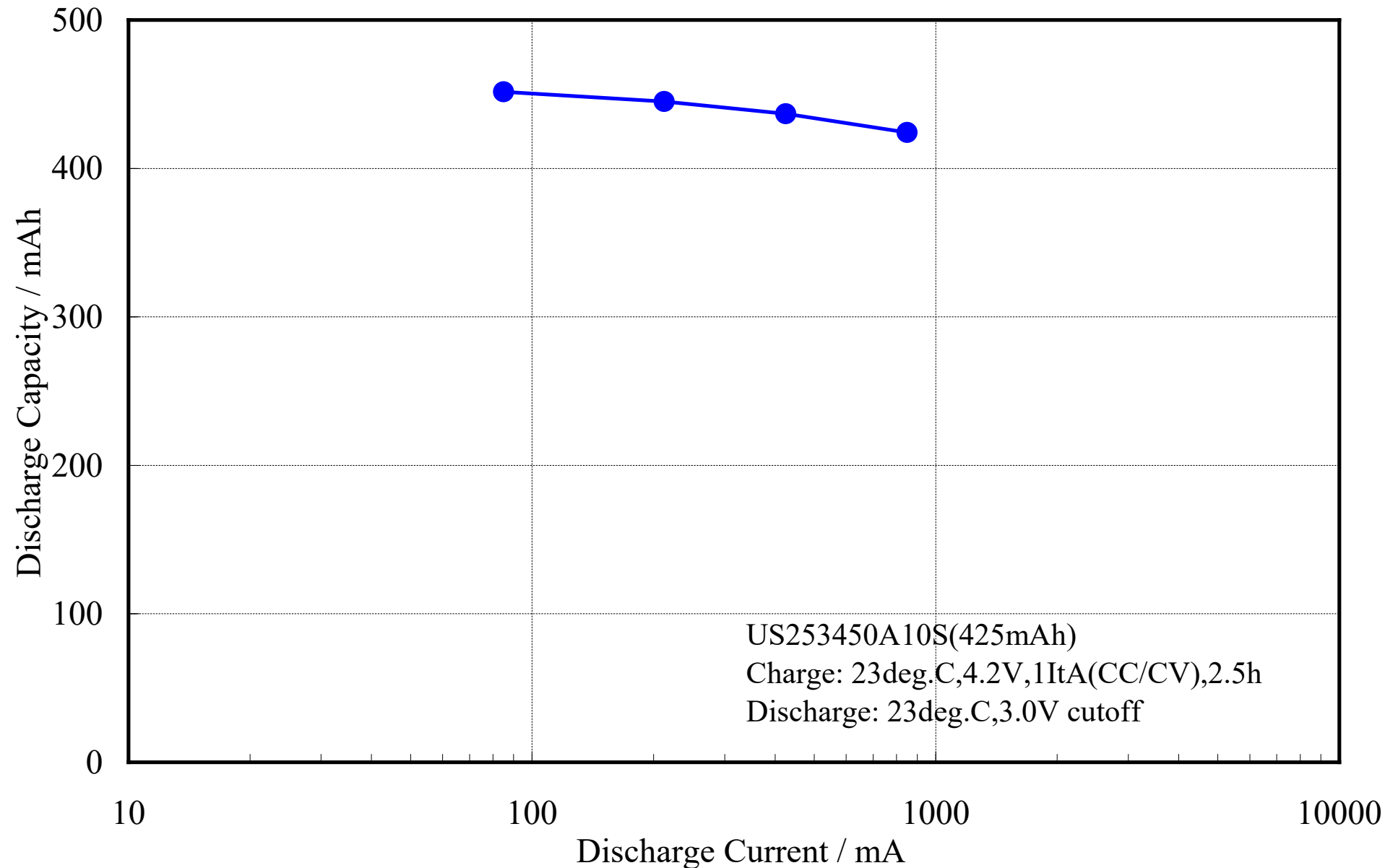
Charging Profile



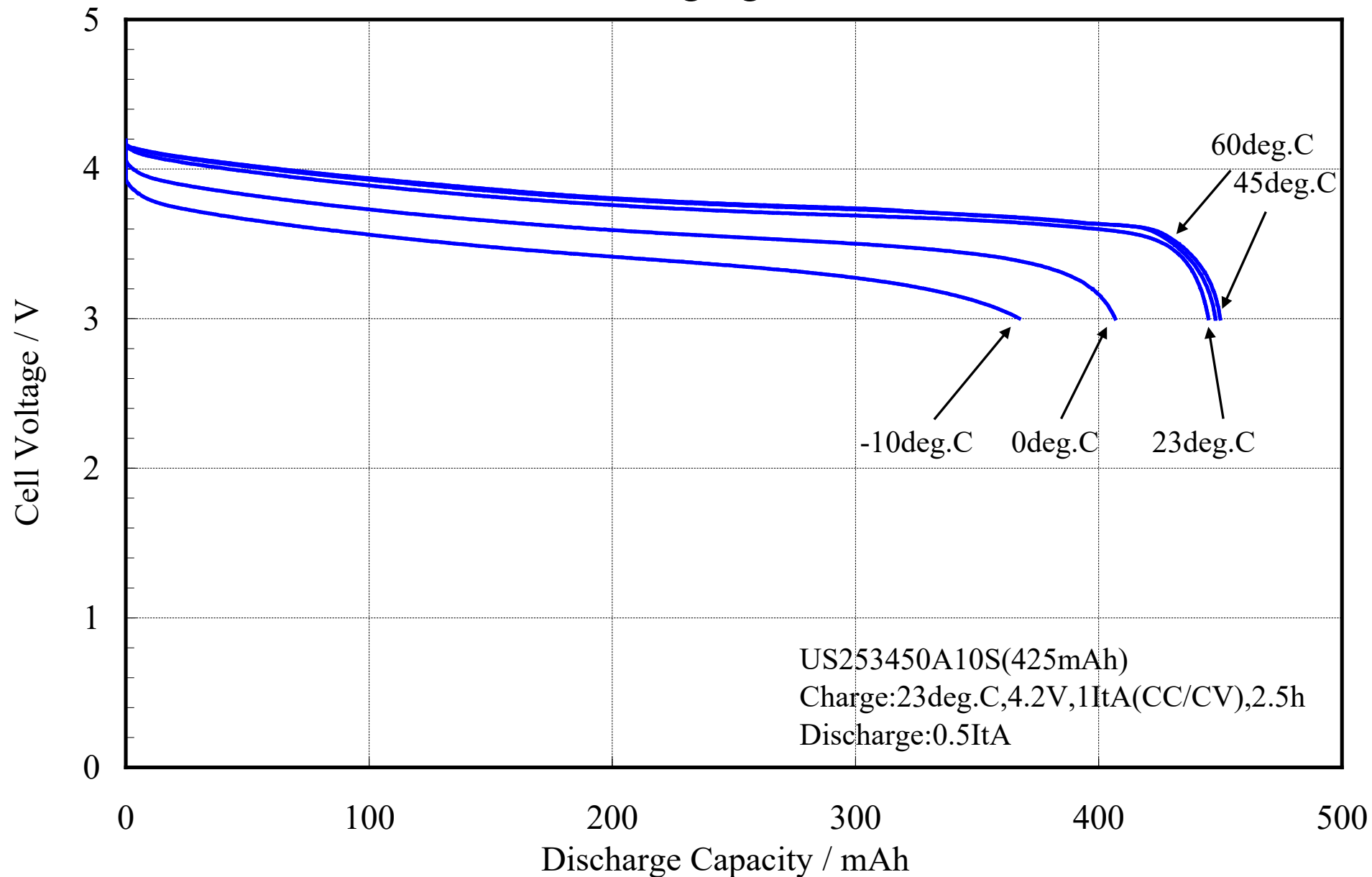
Discharging Profile



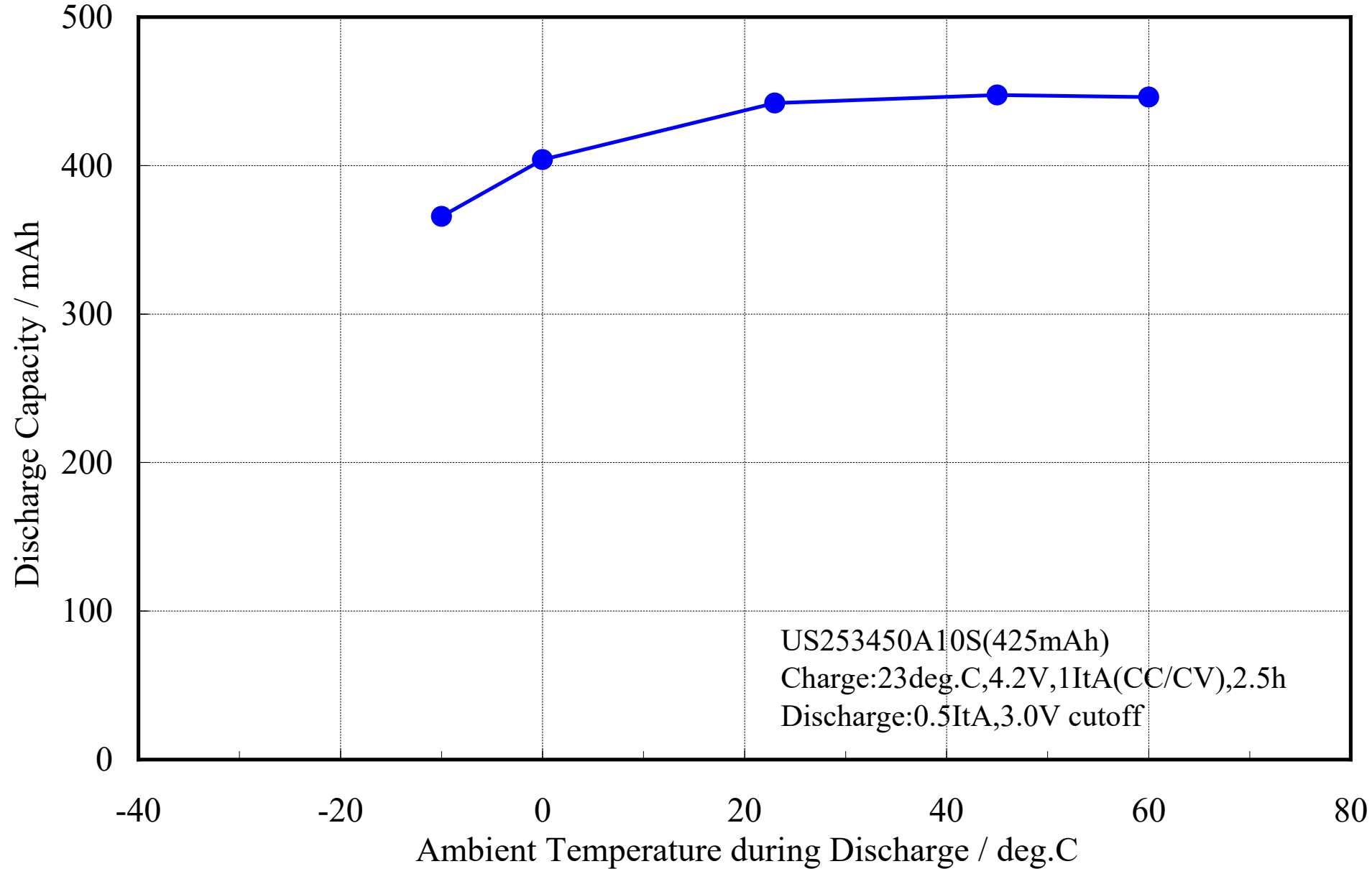
Drain Capability



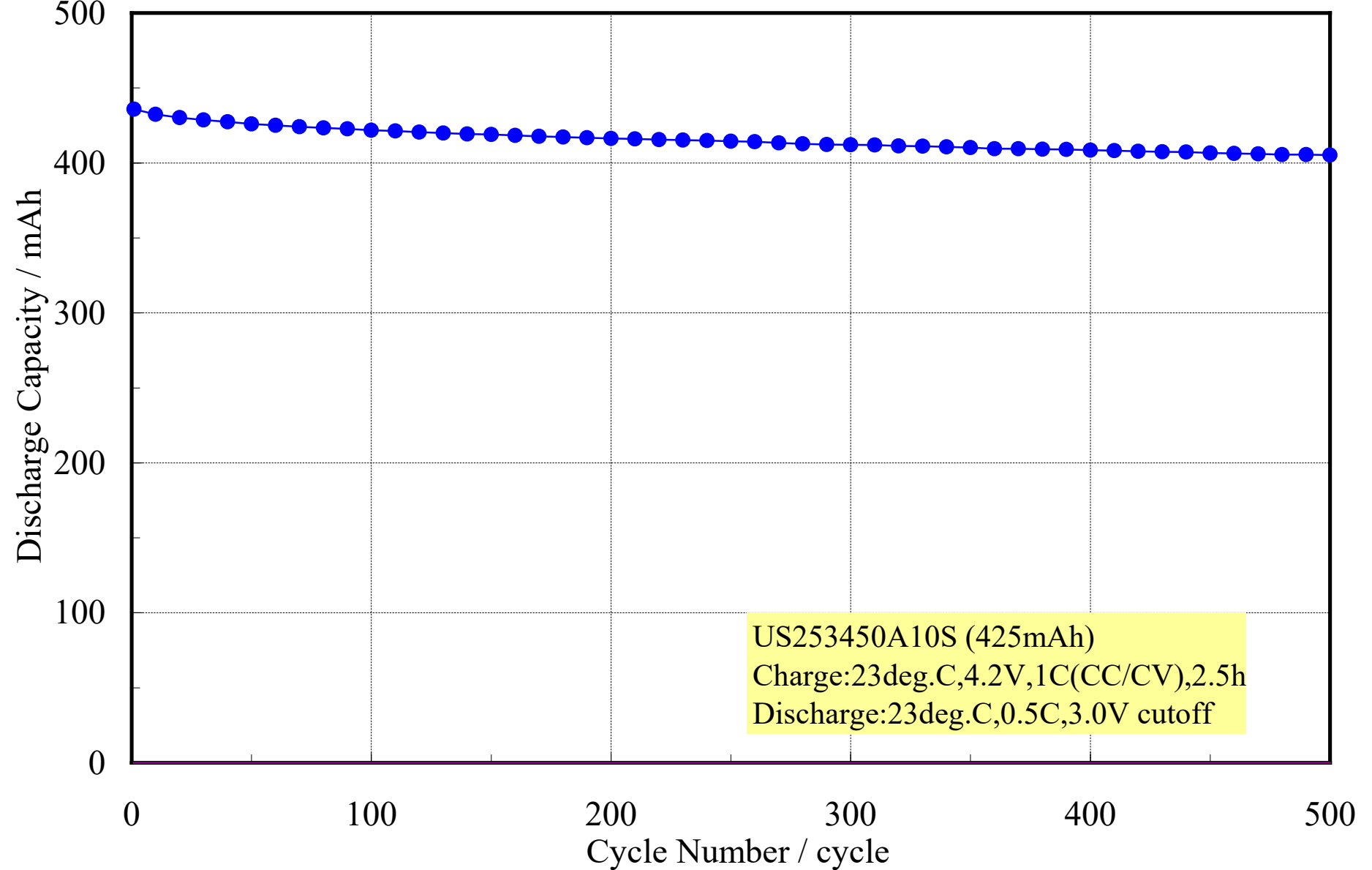
Discharging Profile



Discharge Temperature Performance



Cycle Performance



Cell Size (US253450A10S)

