

1. General

1.1 Scope

This specification applies to type
: US508168H5K Lithium Ion Polymer Rechargeable Battery

1.2 Name and Code

1.2.1 Cell Name : US508168H5
1.2.2 Model Number : US508168H5K
1.2.3 Code : 49943937

1.3 Cell Shape and Weight

1.3.1 Cell Shape : Polymer
1.3.2 Size : Thickness 5.00mm max
Width 81.00mm max
Length (without tab) 67.60mm max
1.3.3 Weight : 66.9g (typical)

1.4 Reference test current

1.0ItA : 4110mA

1.5 Safety Regulation

Murata acquired UL1642.

2. Performance

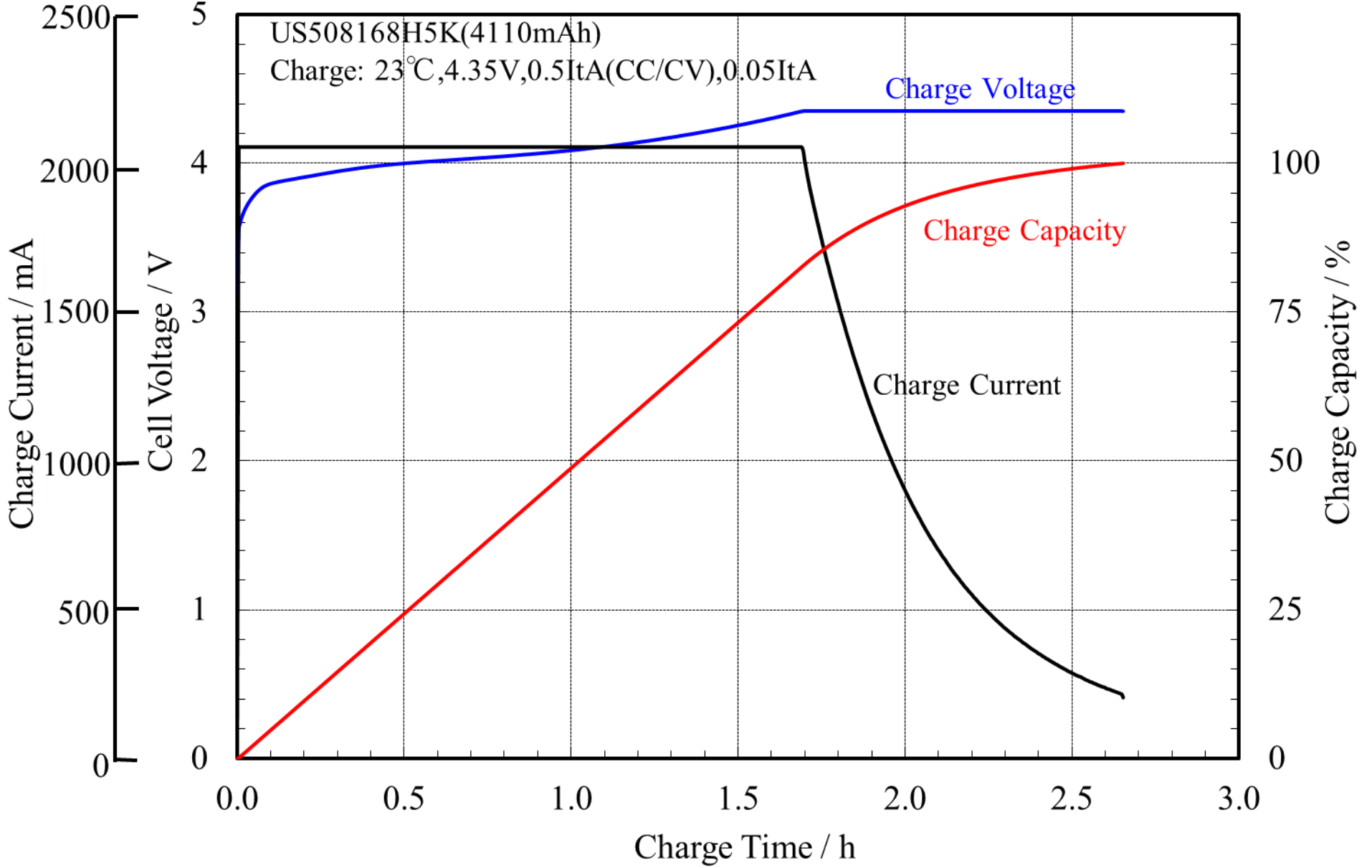
at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	4220mAh 16.00Wh	average capacity 3.80 V (average discharge voltage)
Rated Capacity (0.2ItA discharge)	4110mAh 15.62Wh	minimum capacity
Capacity at 0.5ItA	4179mAh 15.52Wh	average capacity
Capacity at 1.0ItA	4094mAh 14.71Wh	average capacity
Nominal Voltage	3.80V	
Internal Impedance	42mΩ	measured by AC1kHz
Cycle Performance	80% of initial capacity at 500 cycles	0.5ItA discharge rate

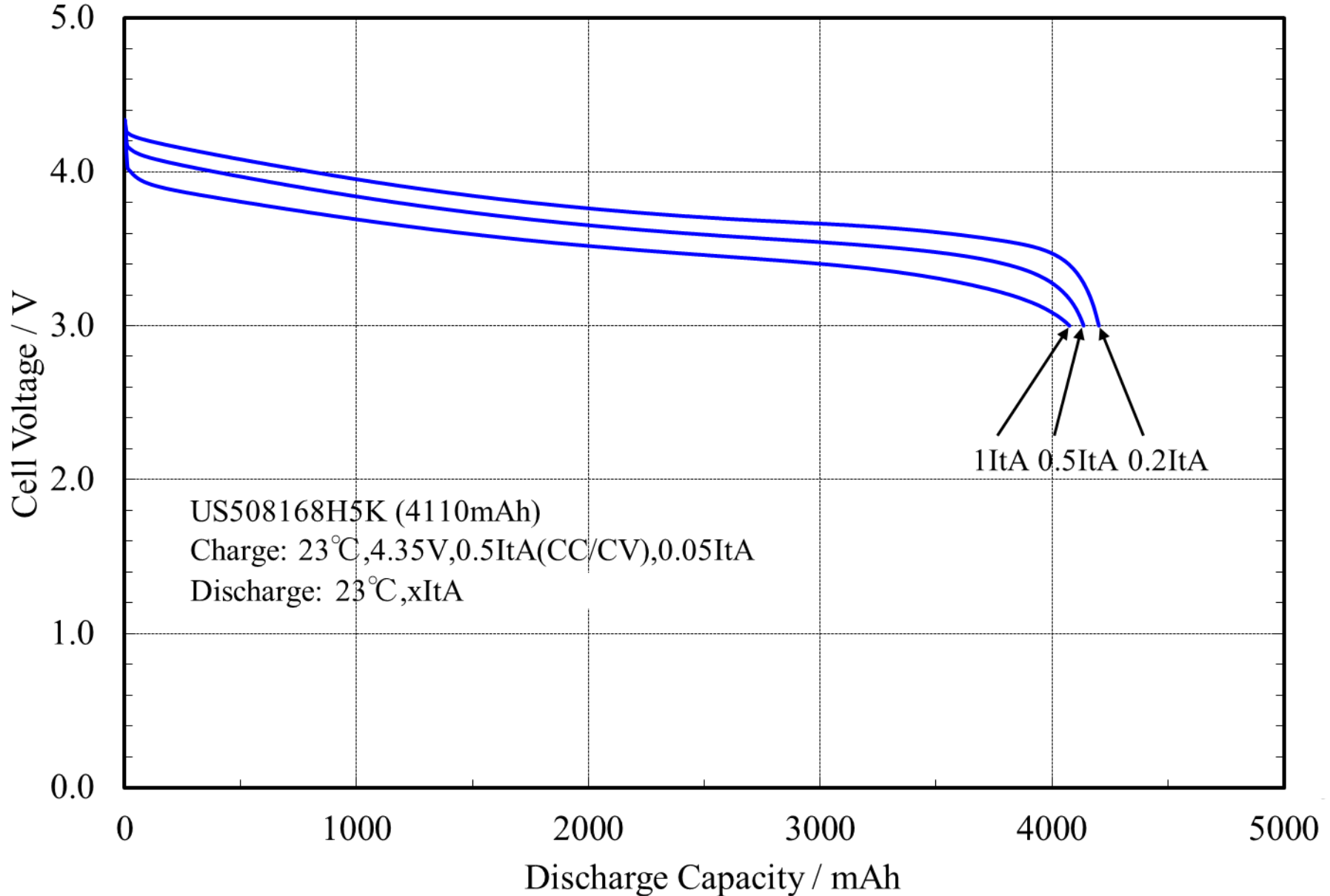
* Standard Charge Condition

Charge Method : constant current / constant voltage
Charge Up Voltage : 4.35 V ± 0.05V
Charge Current : 2.055 A
Charge Time : 0.206 A cut
Ambiance Temperature : 23°C

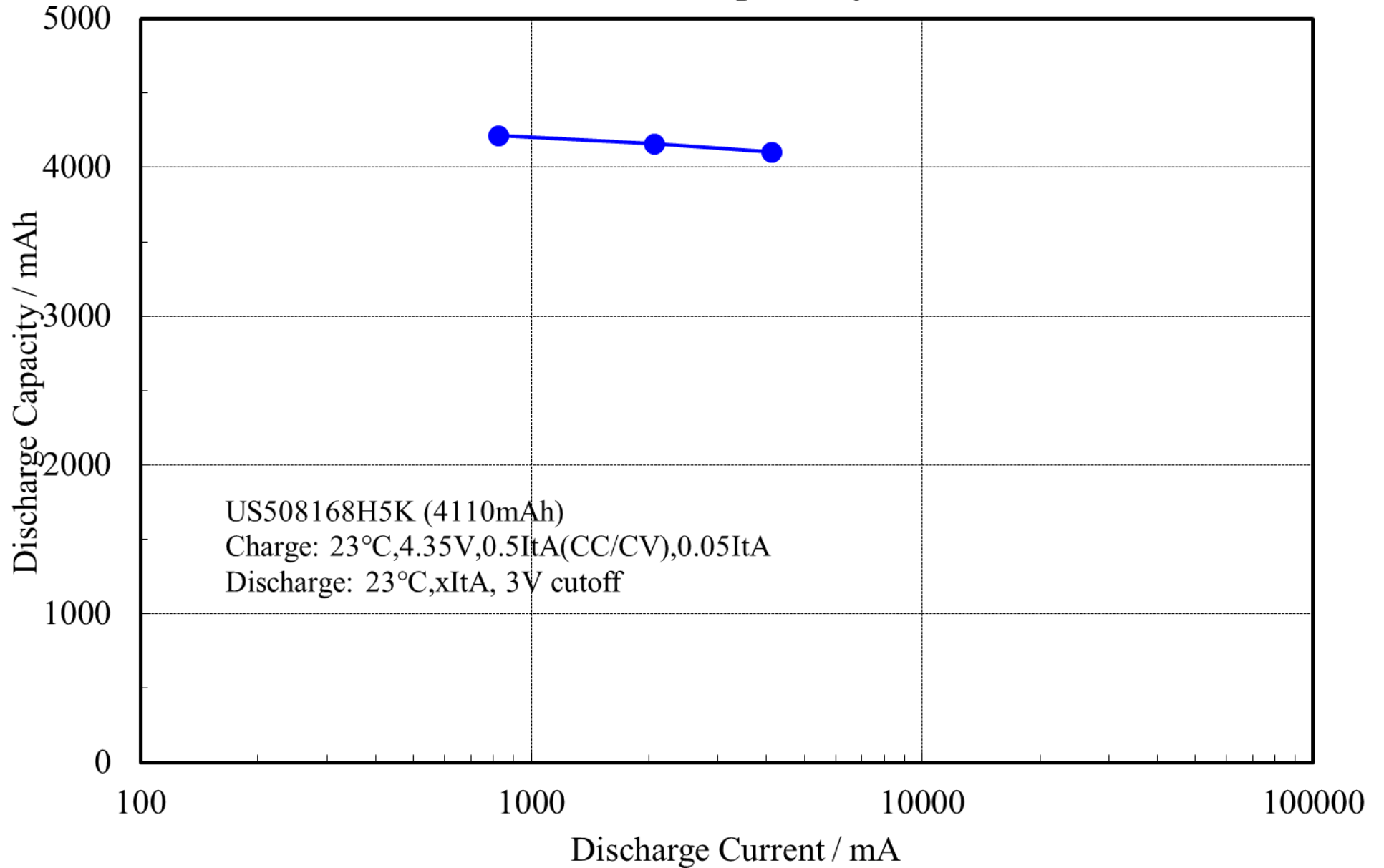
Charging Profile



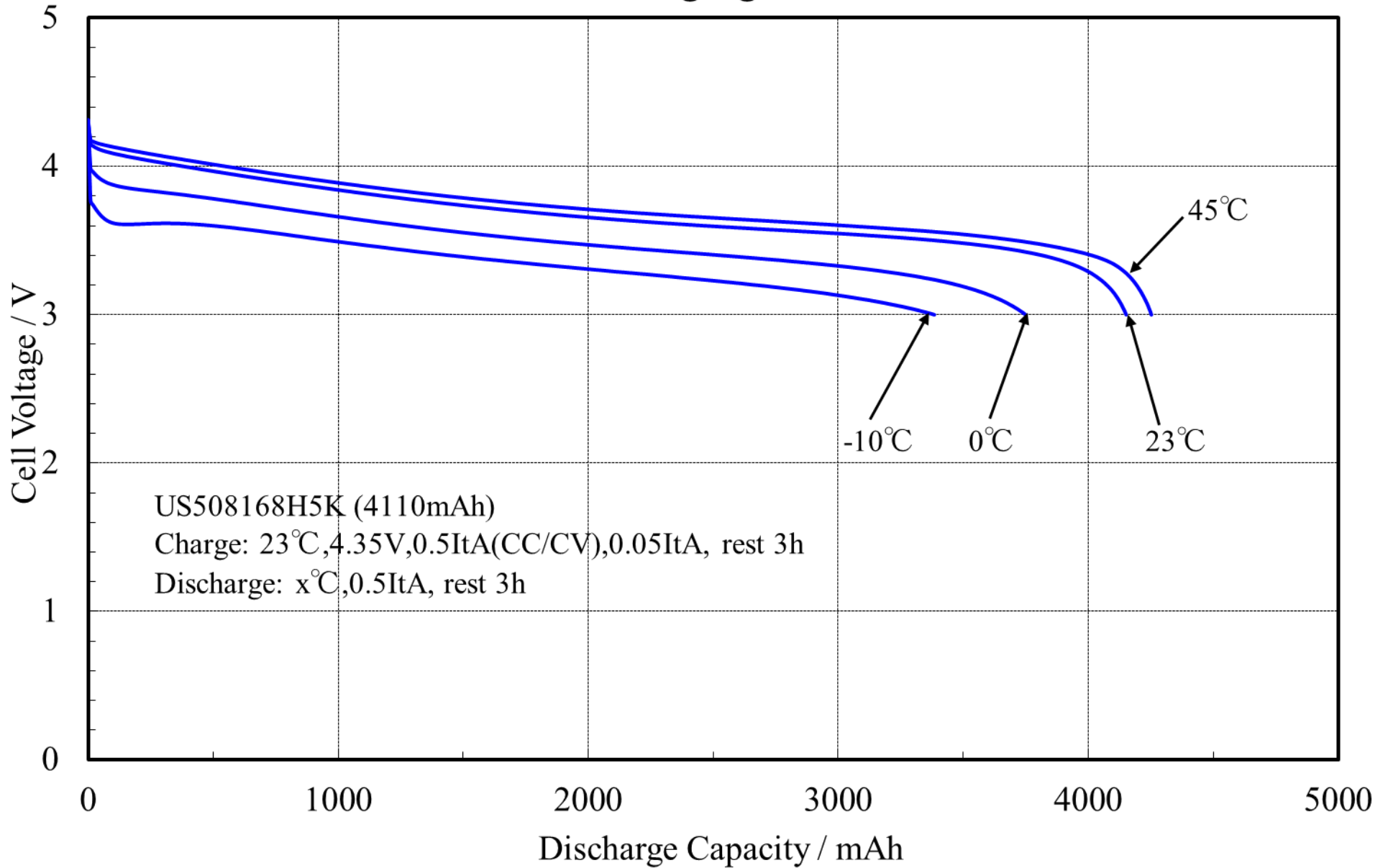
Discharging Profile



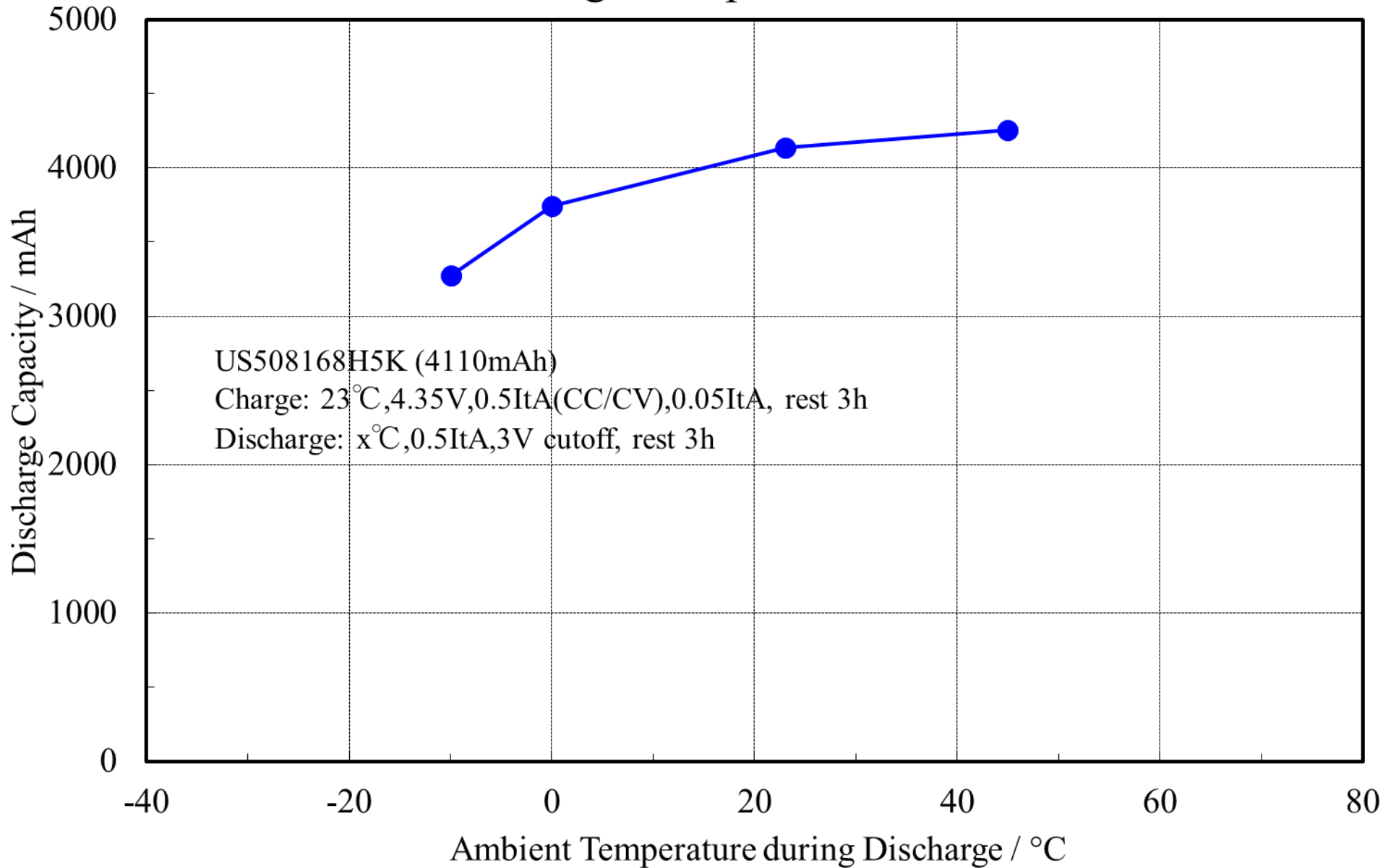
Drain Capability



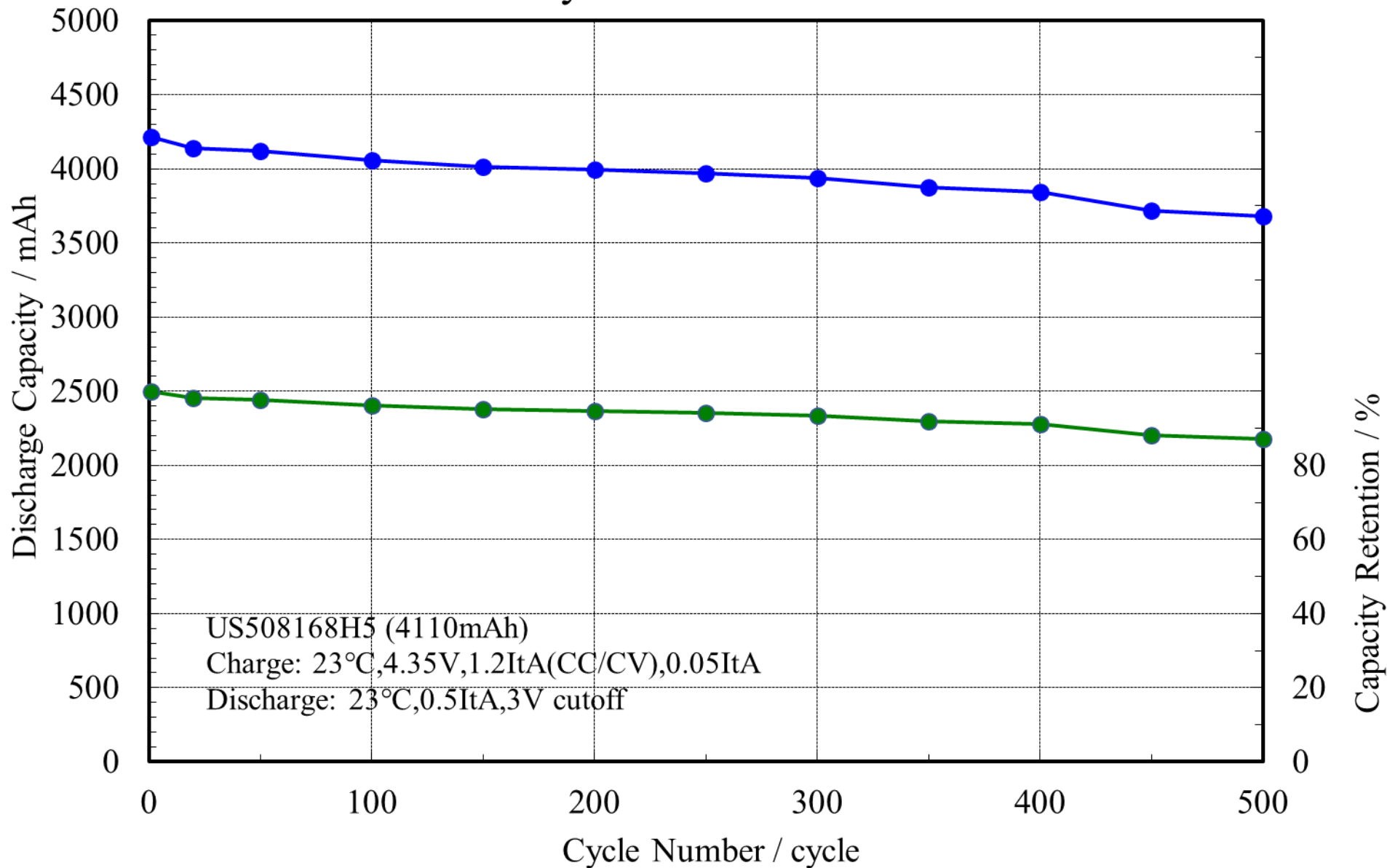
Discharging Profile



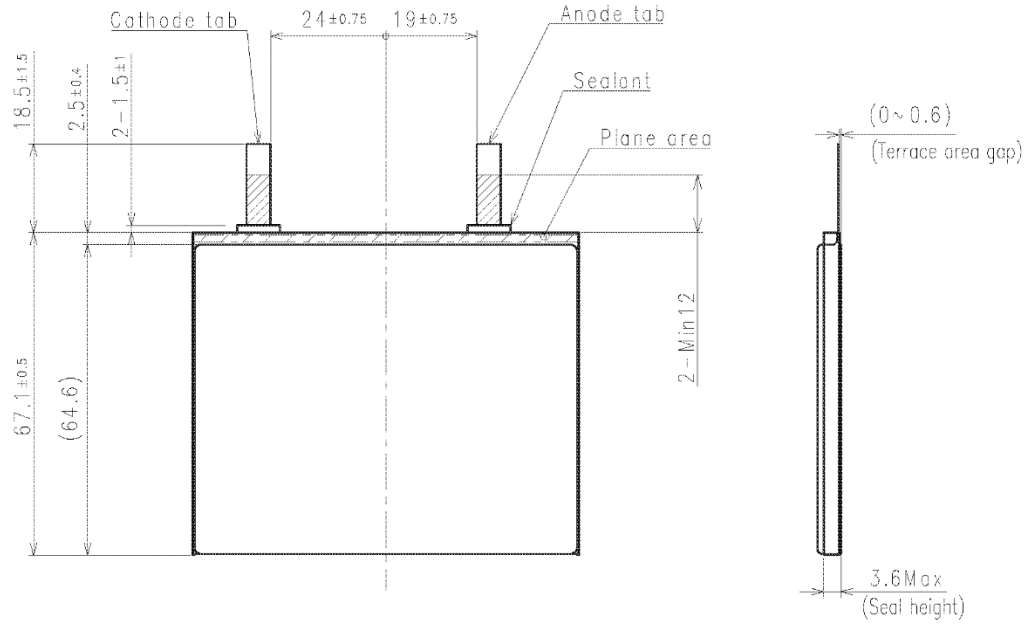
Discharge Temperature Performance



Cycle Performance



Cell Size (US508168H5K)



Same opposite face

