

1. General

1.1 Scope

This specification applies to type

: US406787BH7 Lithium Ion Polymer Rechargeable Battery

1.2 Name and Code

1.2.1 Cell Name : US406787BH7

1.2.2 Model Number : US406787BH7

1.2.3 Code : 49943869

1.3 Cell Shape and Weight

1.3.1 Cell Shape : Polymer

1.3.2 Size : Thickness 3.98 mm max

Width 66.4 mm max

Length(without Tab) 86.5 mm max

1.3.3 Weight : 55 g (typical)

1.4 Reference test current

1.0 ItA: 3920 mA

1.5 Safety Regulation

Murata acquired UL1642

2. Performance

at room temperature, 3.0V cut off

| | | |
|--|---|---|
| Nominal Capacity (0.2ItA discharge) | 3800mAh | average capacity 3.80 V (average discharge voltage) |
| | 14.55 Wh | |
| Rated Capacity (0.2ItA discharge) | 3720mAh | minimum capacity |
| | 14.14 Wh | |
| Capacity at 0.5ItA | 3783mAh | average capacity |
| | 14.12 Wh | |
| Capacity at 1.0ItA | 3725mAh | average capacity |
| | 13.51 Wh | |
| Nominal Voltage | 3.8 V | |
| Internal Impedance | 29 mΩ | measured by AC1 kHz |
| Cycle Performance | 80% of Initial capacity at 700 cycles | 0.7 ItA discharge rate |

* Standard Charge Condition

Charge Method : constant current / constant voltage

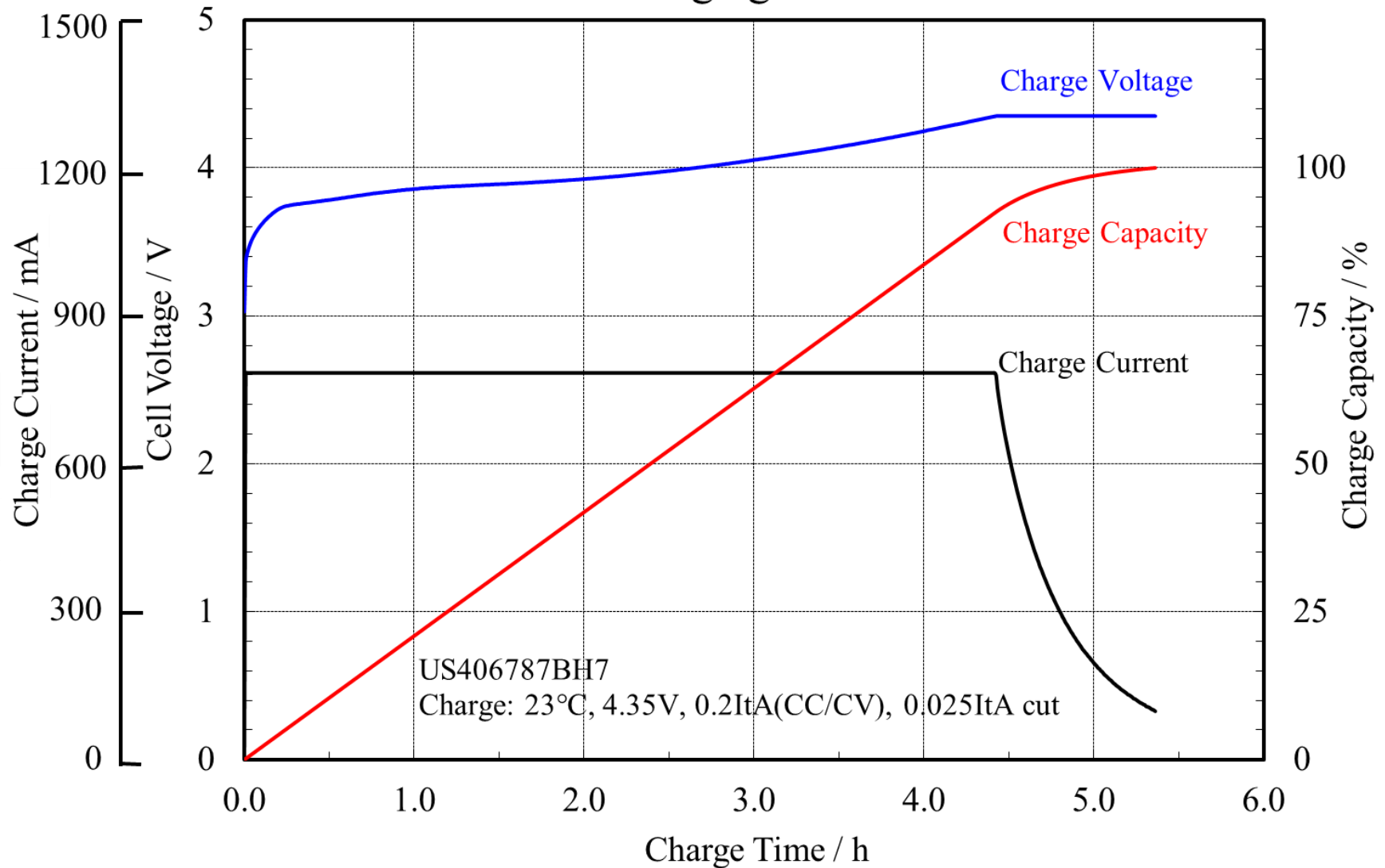
Charge Up Voltage : 4.35 V ± 0.05V

Charge Current : 0.784 A

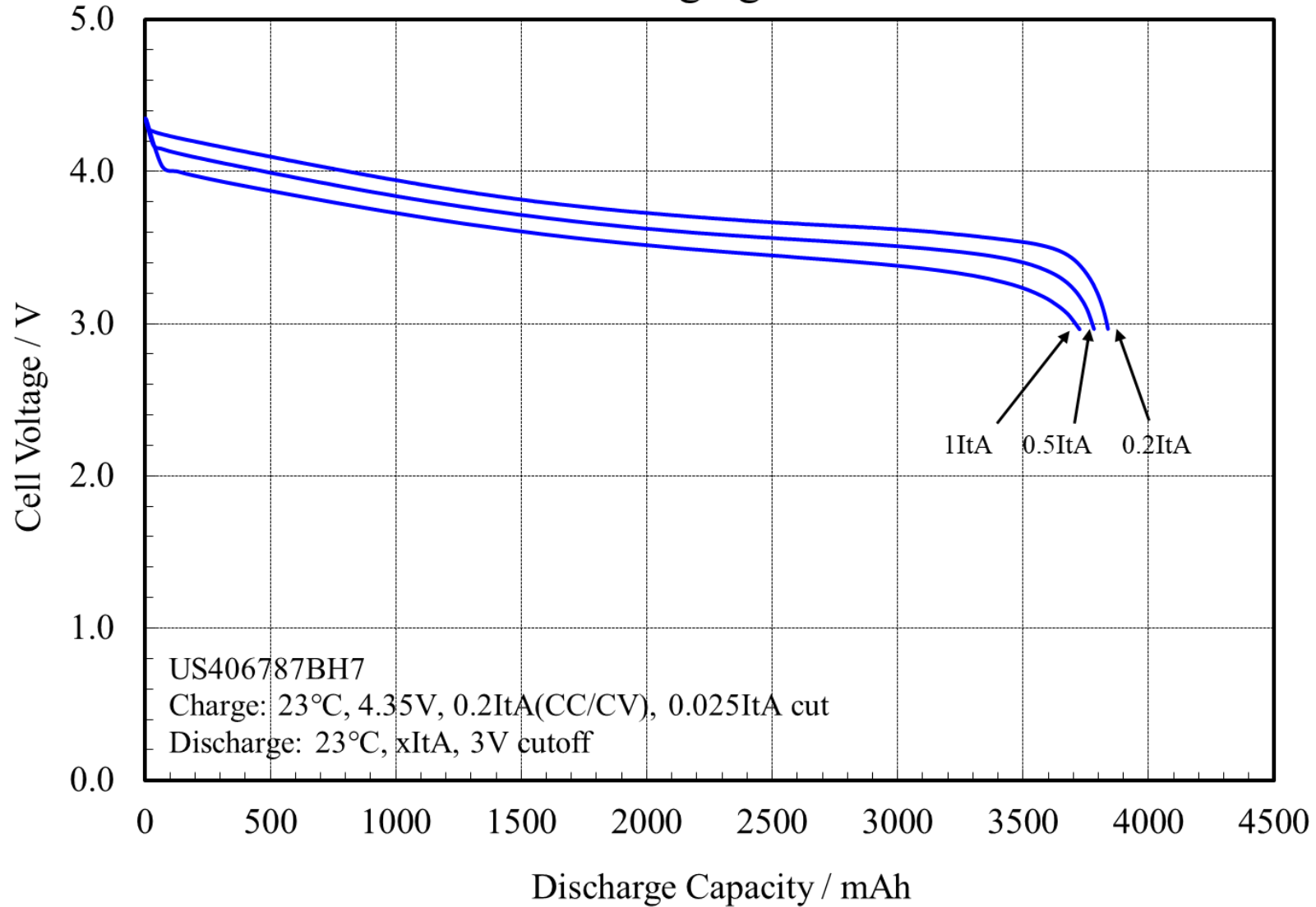
Charge Cut off Current : 98 mA

Ambiance Temperature : 23 °C

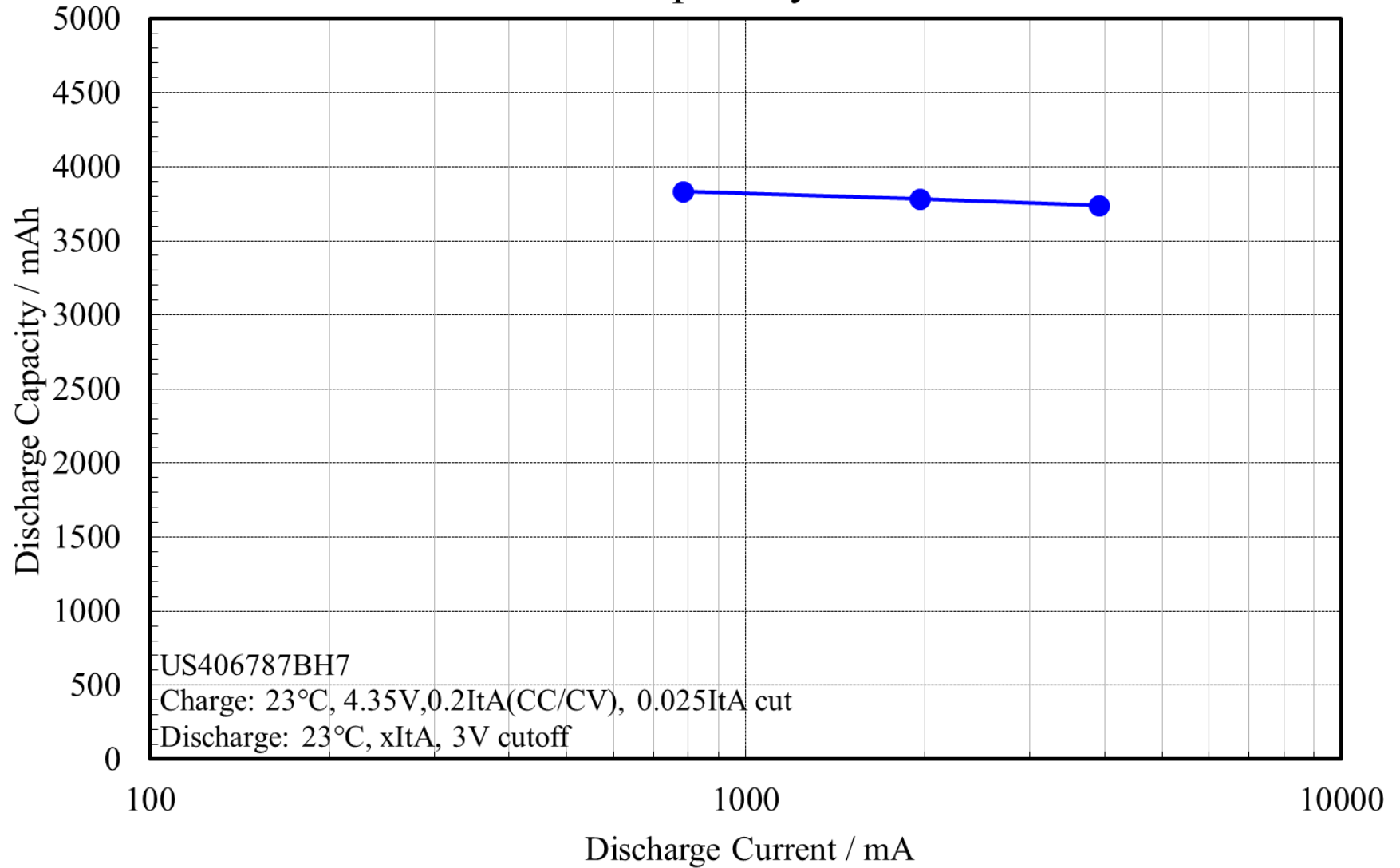
Charging Profile



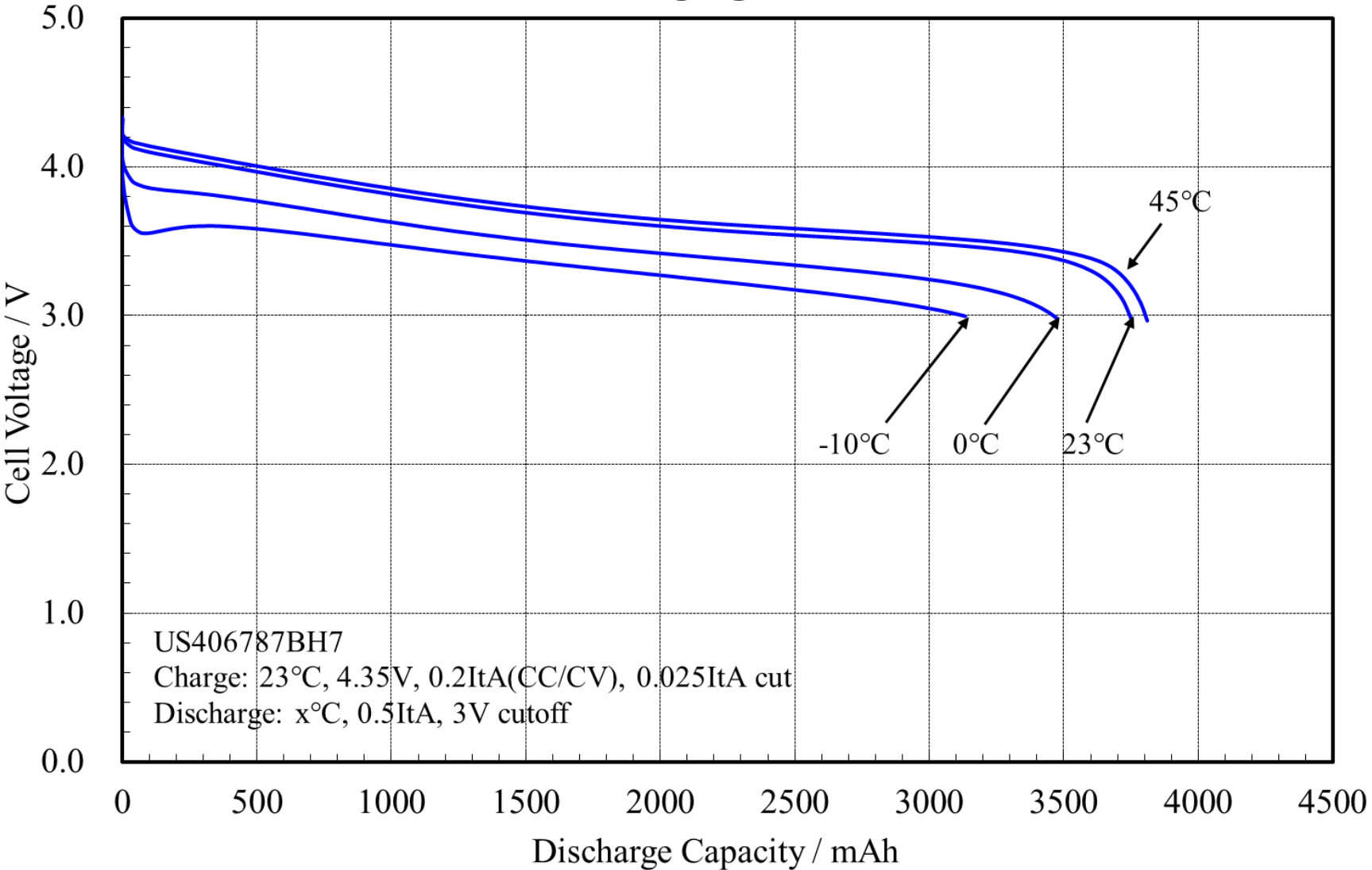
Discharging Profile



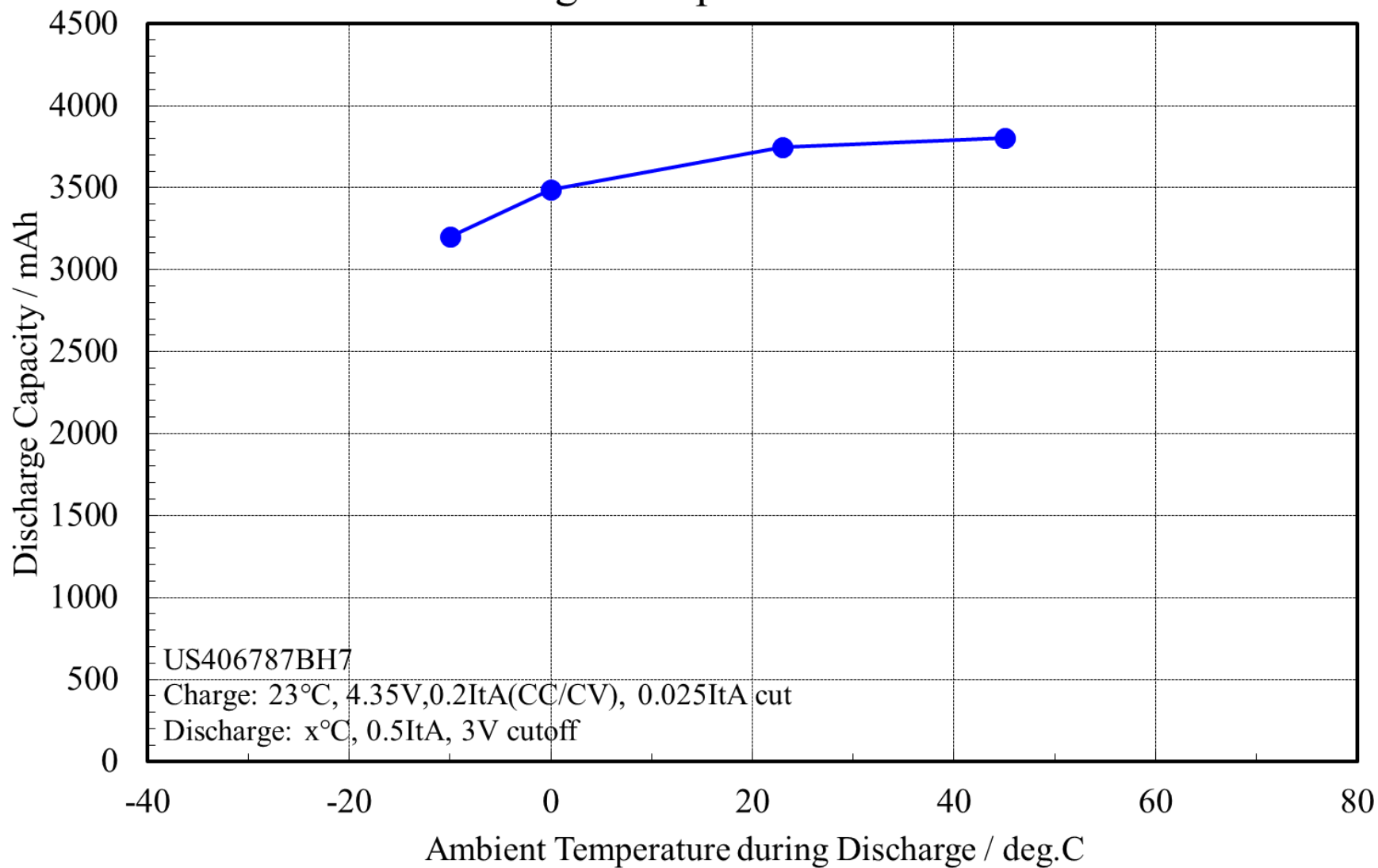
Drain Capability



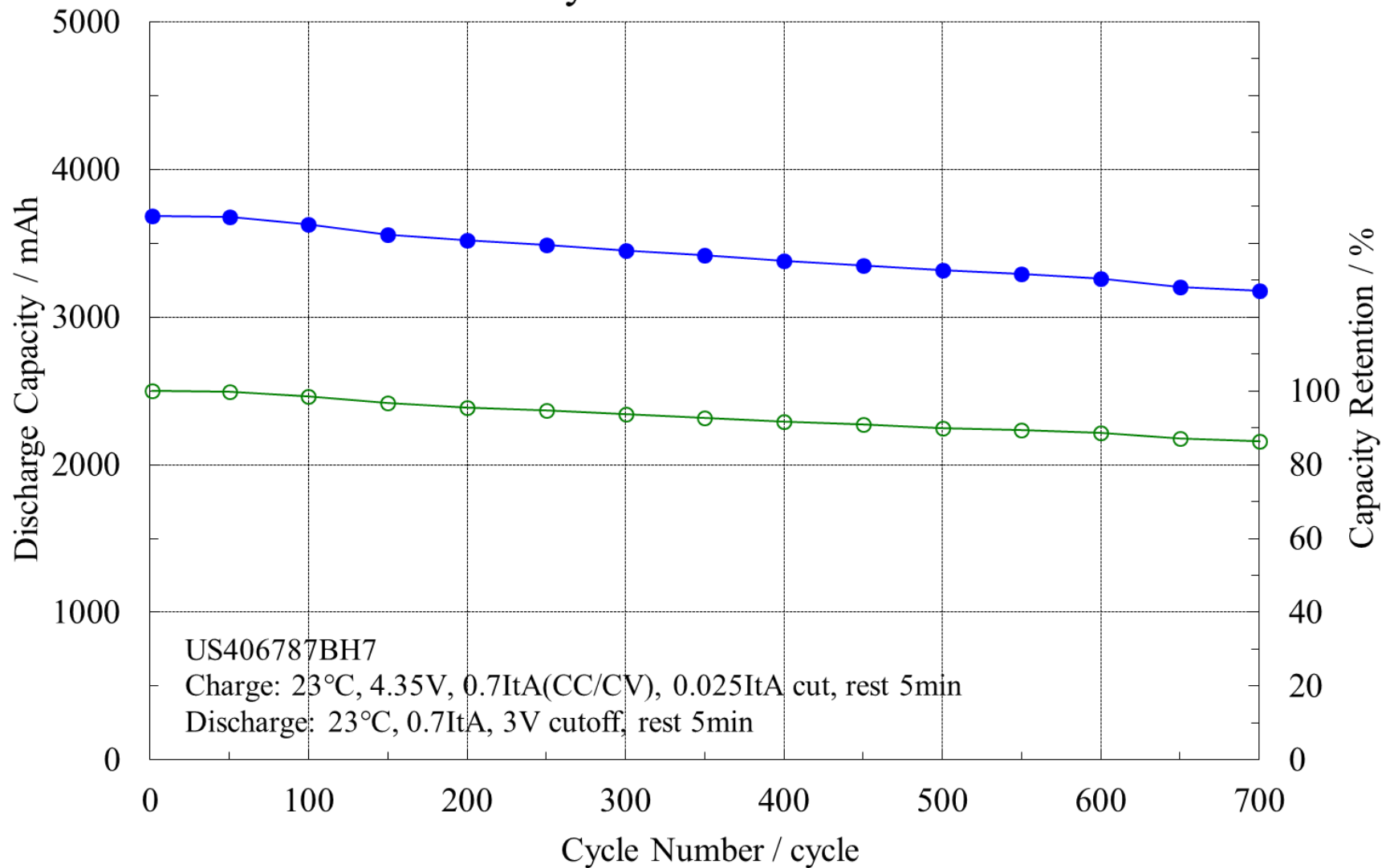
Discharging Profile



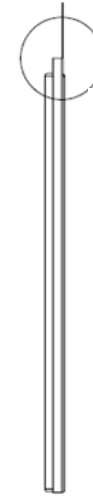
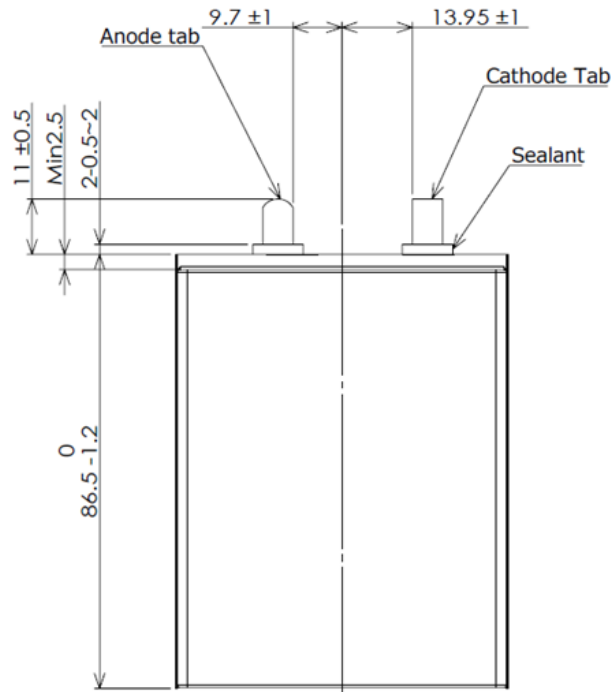
Discharge Temperature Performance



Cycle Performance



Cell Size (US406787BH7)



Same opposite face

