

## 1. General

### **1.1 Scope**

This specification applies to type

: US414499BH7 Lithium Ion Polymer Rechargeable Battery

### **1.2 Name and Code**

**1.2.1 Cell Name** : US414499BH7

**1.2.2 Model Number** : US414499BH7

**1.2.3 Code** : 49943100

: 49943271 (SOC30% less than)

### **1.3 Cell Shape and Weight**

**1.3.1 Cell Shape** : Polymer

**1.3.2 Size** : Thickness 4.02 mm max  
Width 43.08 mm max  
Length(without Tab) 98.95 mm max

**1.3.3 Weight** : 41 g (typical)

### **1.4 Reference test current**

1.0 ItA: 2780 mA

### **1.5 Safety Regulation**

Murata acquired UL1642

## 2. Performance

at room temperature, 3.0V cut off

|  |   |  |
|--|---|--|
| Nominal Capacity<br>(0.2ItA discharge) | 2700mAh                                     | average capacity<br>3.8 V (average<br>discharge voltage) |
|  | 10.34Wh                                     |  |
| Rated Capacity<br>(0.2ItA discharge)   | 2630mAh                                     | minimum capacity   |
|  | 9.99Wh                                      |  |
| Capacity at 0.5ItA                     | 2550mAh                                     | average capacity   |
|  | 9.55Wh                                      |  |
| Capacity at 1.0ItA                     | 2400mAh                                     | average capacity   |
|  | 8.76Wh                                      |  |
| Nominal Voltage                        | 3.8 V                                       |  |
| Internal Impedance                     | 25 mΩ                                       | measured by AC1 kHz                                      |
| Cycle Performance                      | 80% of Initial<br>capacity at 500<br>cycles | 0.5 ItA discharge rate                                   |

\*Standard Charge Condition

Charge Method : constant current / constant voltage

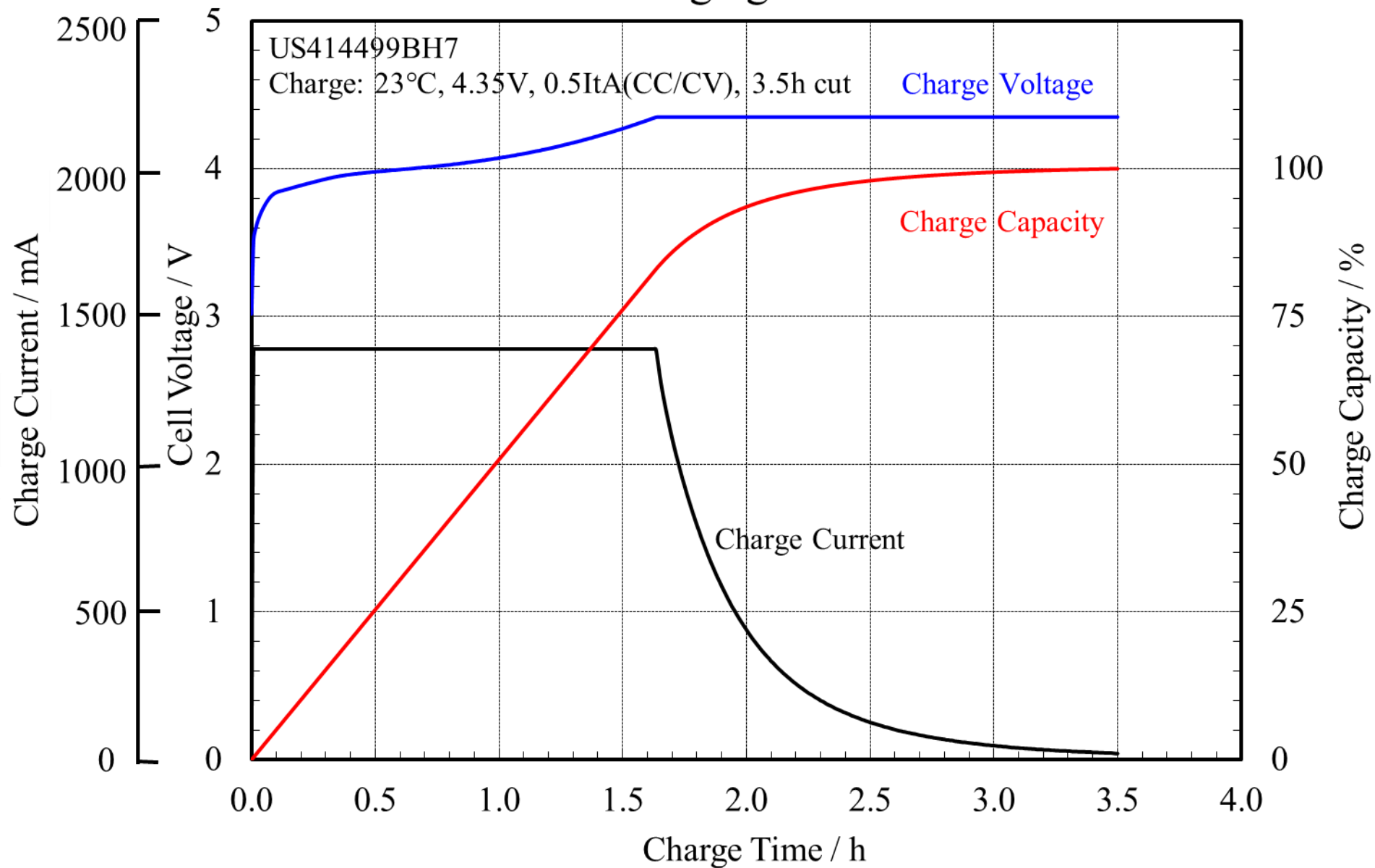
Charge Up Voltage : 4.35 ± 0.05 V

Charge Current : 1.39 A

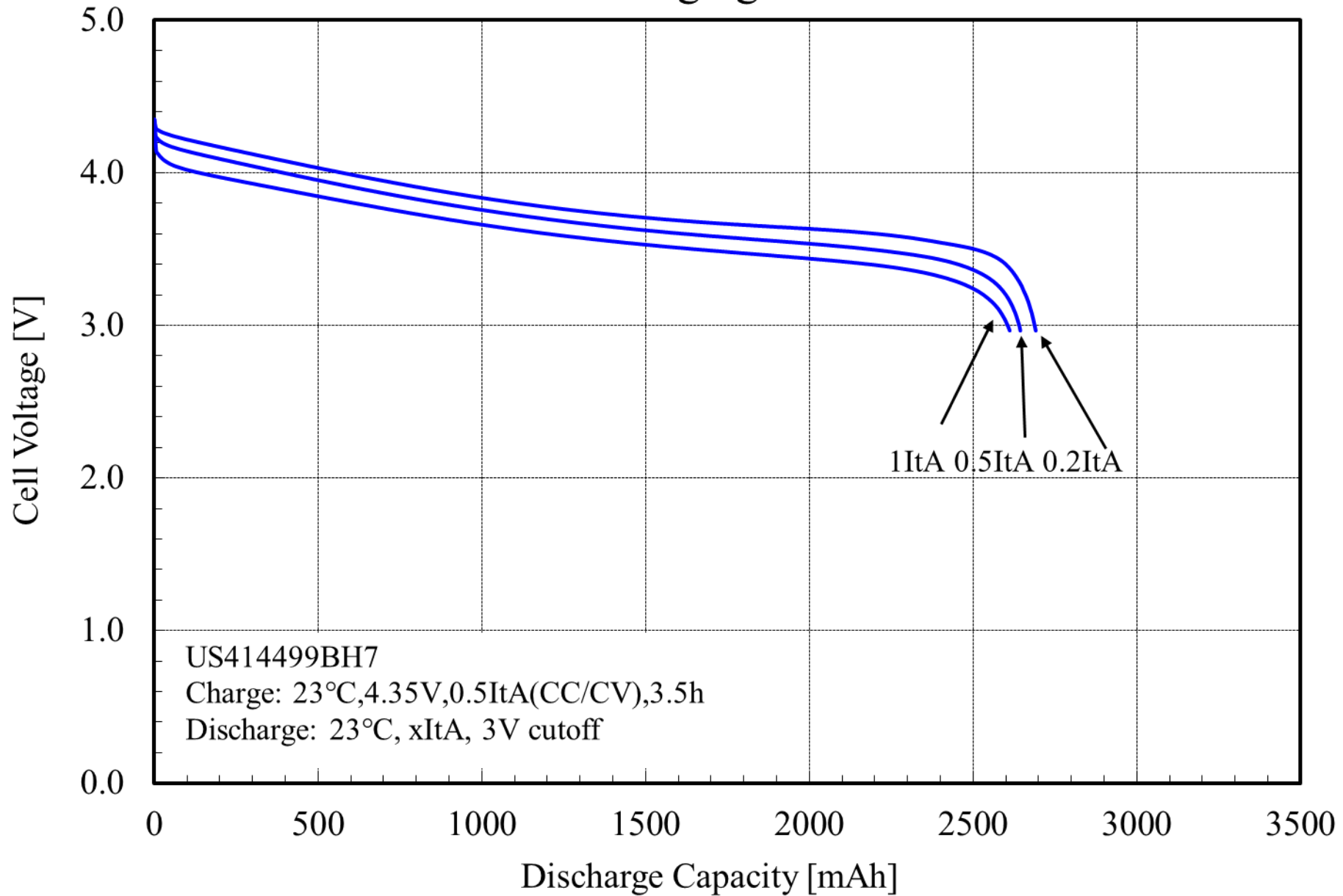
Charge Time : 3.5 h

Ambiance Temperature : 23 °C

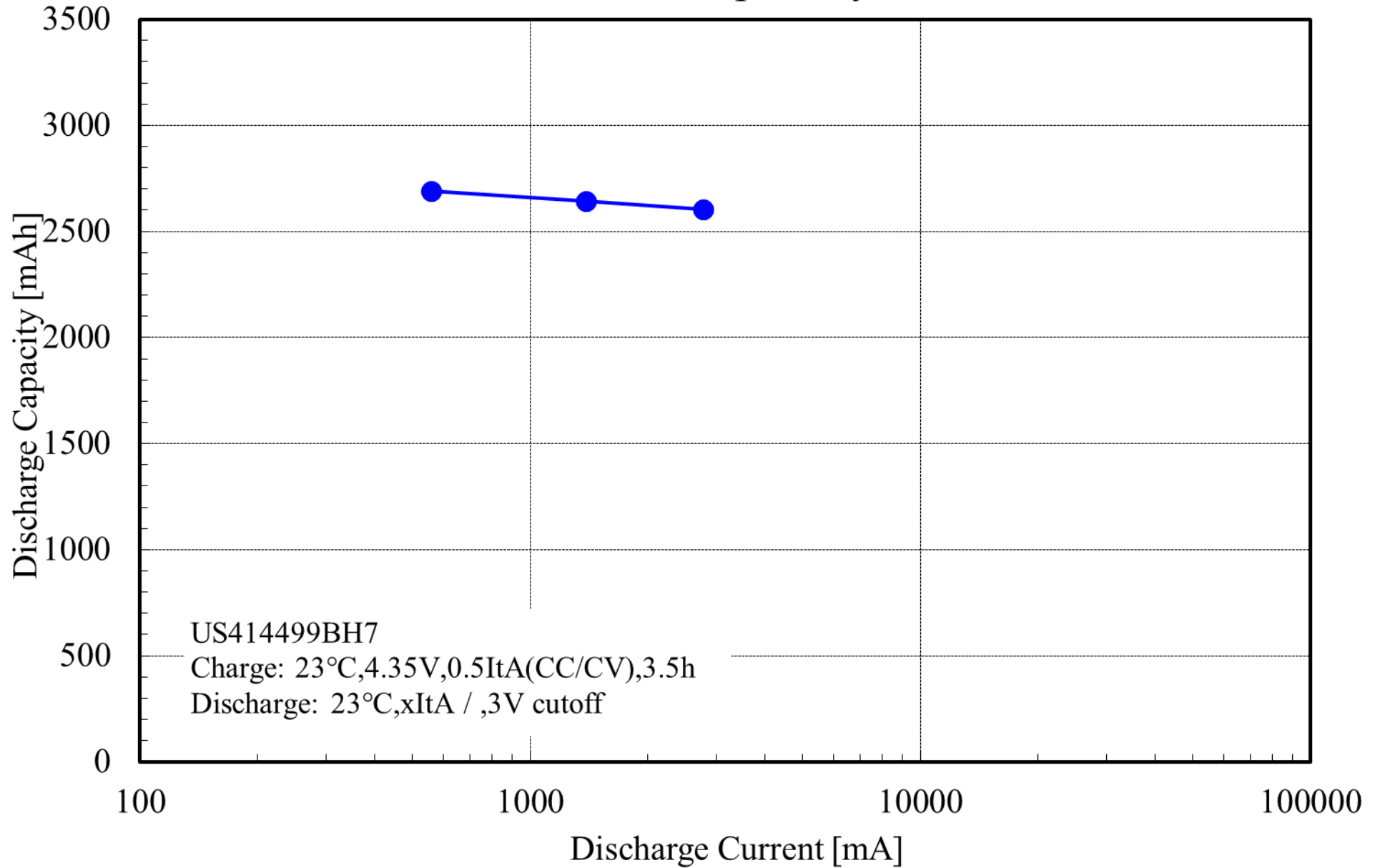
# Charging Profile



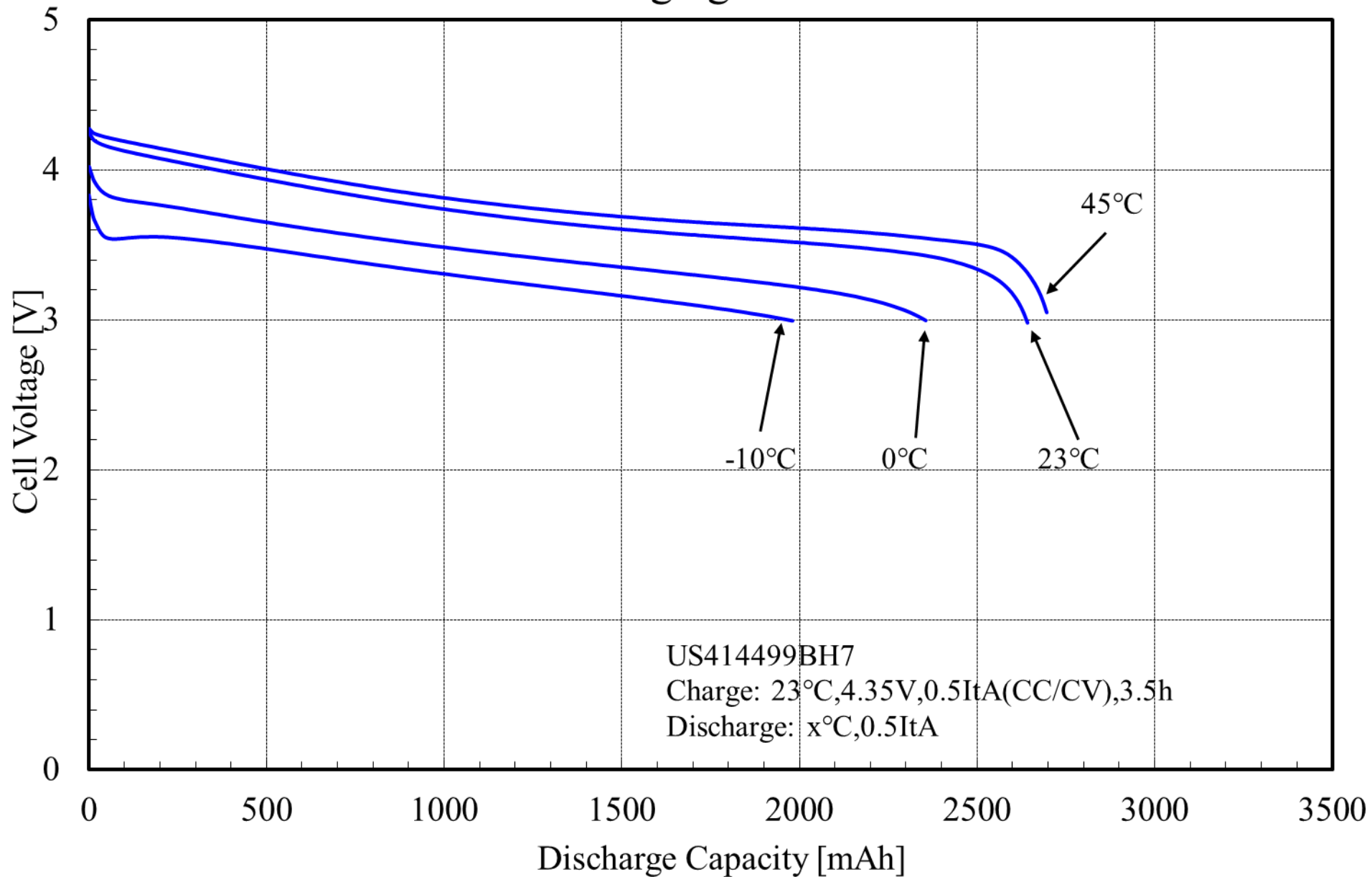
# Discharging Profile



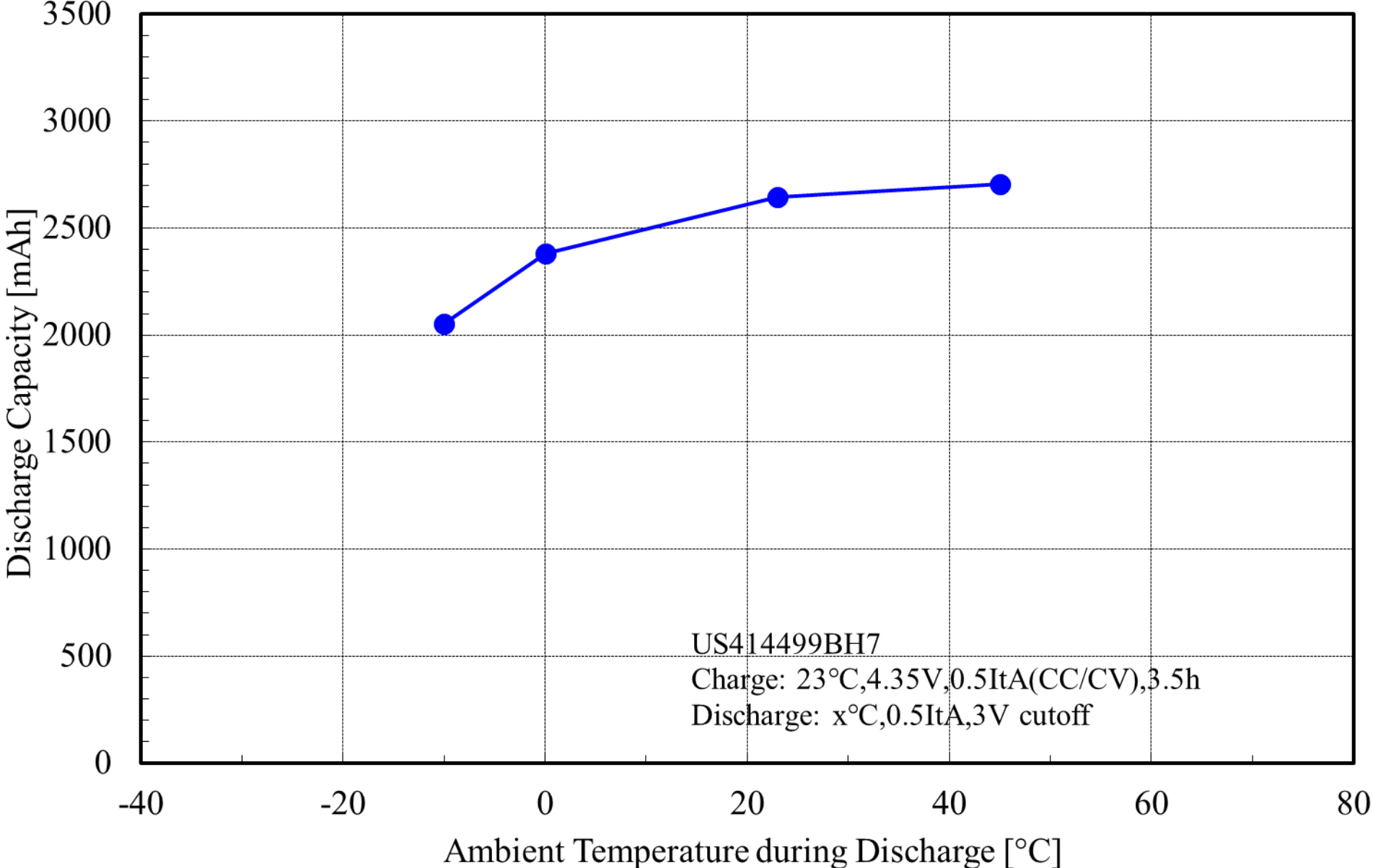
# Drain Capability



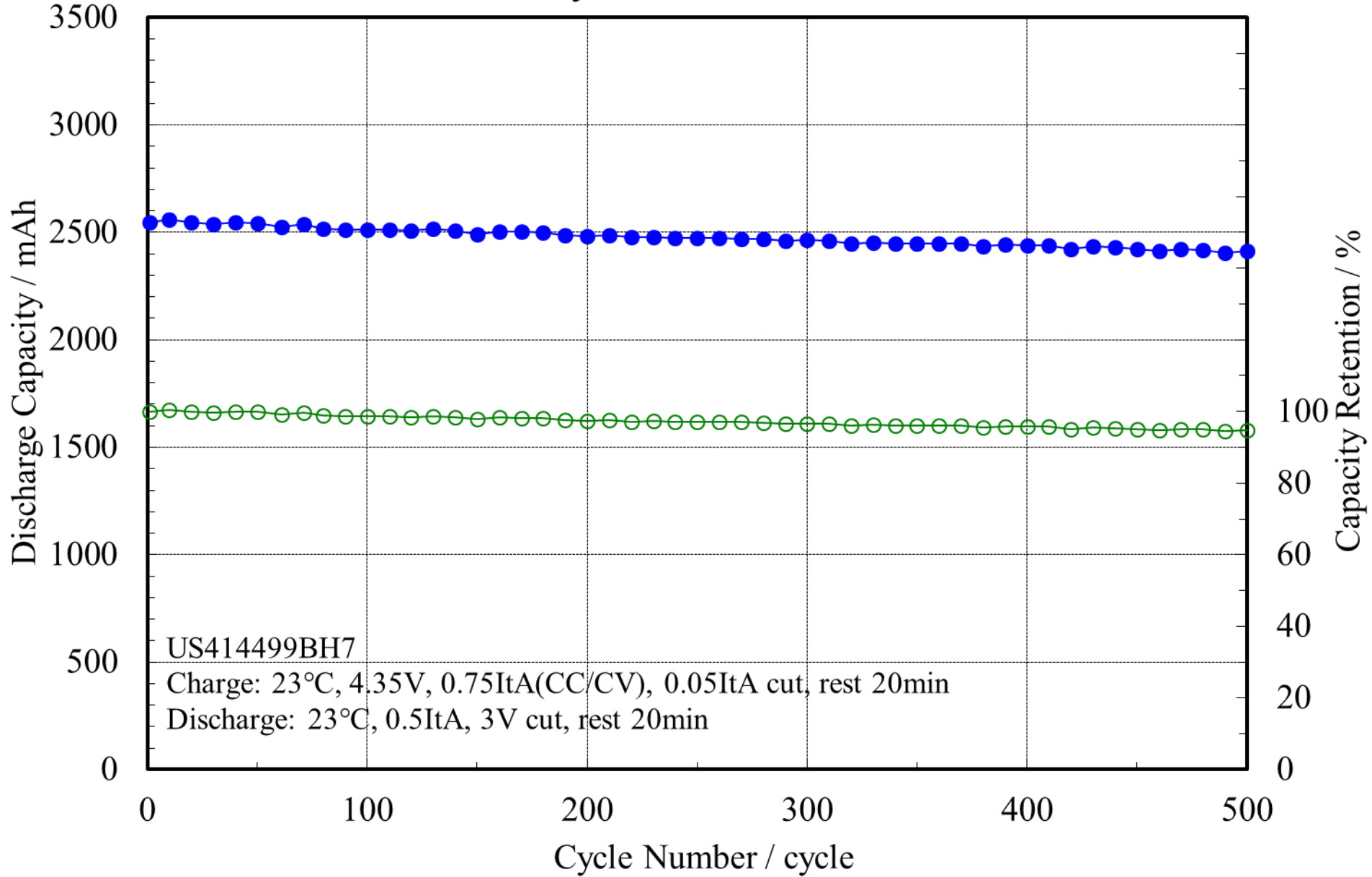
# Discharging Profile



# Discharge Temperature Performance



# Cycle Performance



# Cell Size( US414499BH7)

