

## 1. General

### **1.1 Scope**

This specification applies to type  
: US486588H3K Lithium Ion Polymer Rechargeable Battery

### **1.2 Name and Code**

**1.2.1 Cell Name** : US486588

**1.2.2 Model Number** : US486588H3K

**1.2.3 Code** : 49928470

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

**1.3.1 Cell Shape** : Polymer

**1.3.2 Size** : Thickness 4.80 mm max  
Width 65.00 mm max  
Length(without tab) 88.00 mm max

**1.3.3 Weight** : 63.0 g (typical)

### **1.4 Reference test current**

1.0 ItA : 3760 mA

### **1.5 Safety Regulation**

Acquired UL1642.

## 2. Performance

at room temperature, 3.0 V cutoff

|  |  |   |
|--|--|---|
| Nominal Capacity<br>(0.2ItA discharge) | 3920 mAh<br>15.0Wh                           | average capacity<br>3.82 V (average<br>discharge voltage) |
| Rated Capacity<br>(0.2ItA discharge)   | 3760 mAh<br>14.3Wh                           | minimum capacity  |
| Capacity at 0.5ItA                     | 3684mAh<br>13.7 Wh                           | average capacity  |
| Capacity at 1.0ItA                     | 3539mAh<br>12.7 Wh                           | average capacity  |
| Nominal Voltage                        | 3.80 V                                       |   |
| Internal Impedance                     | 30 mΩ  | measured by AC1 kHz                                       |
| Cycle Performance                      | 80 % of Initial<br>capacity at 400<br>cycles | 0.5 ItA discharge rate                                    |

### \* Standard Charge Condition

Charge Method : constant current / constant voltage

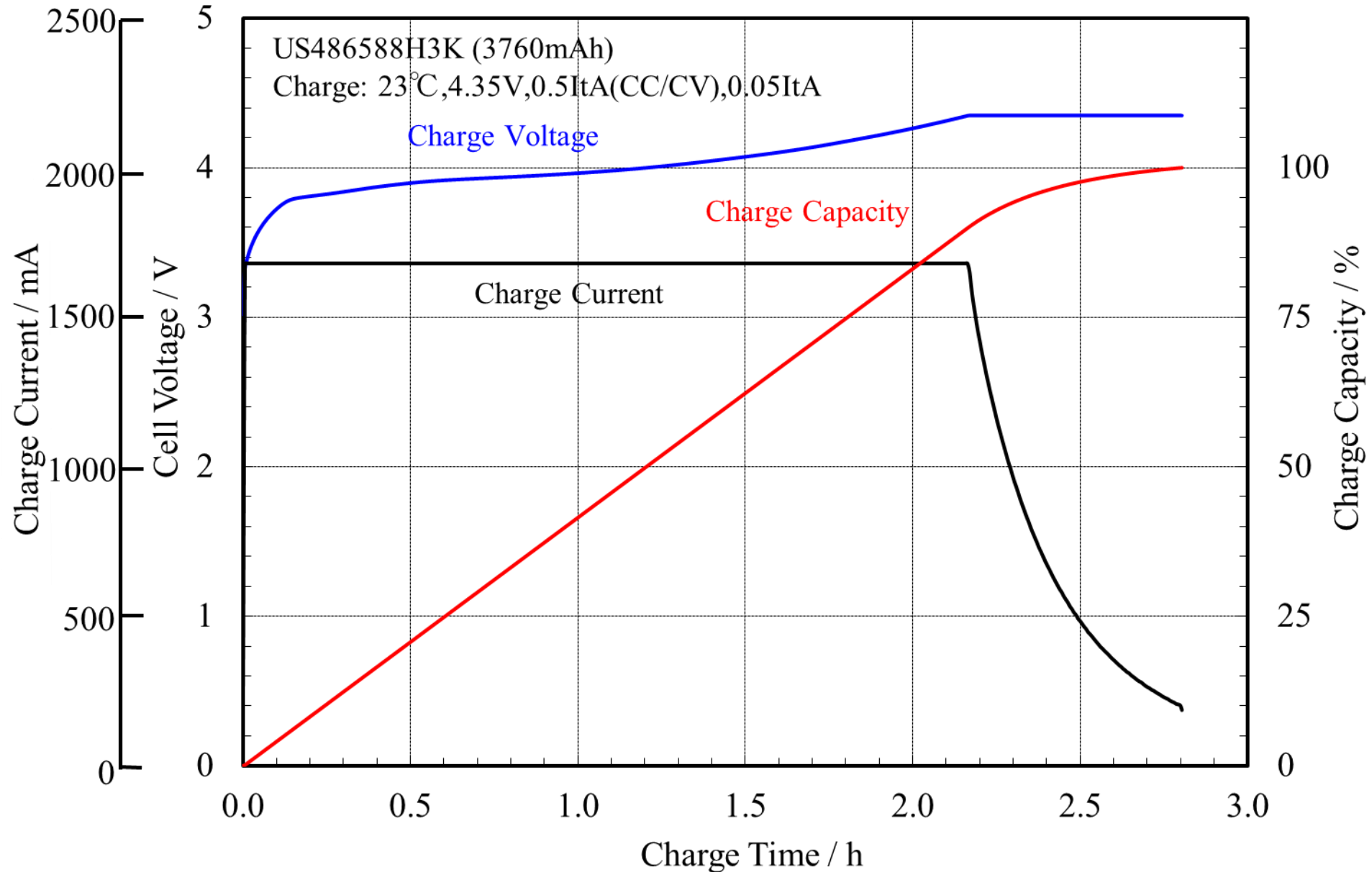
Charge Up Voltage : 4.35 V ± 0.05 V

Charge Current : 1.880 A

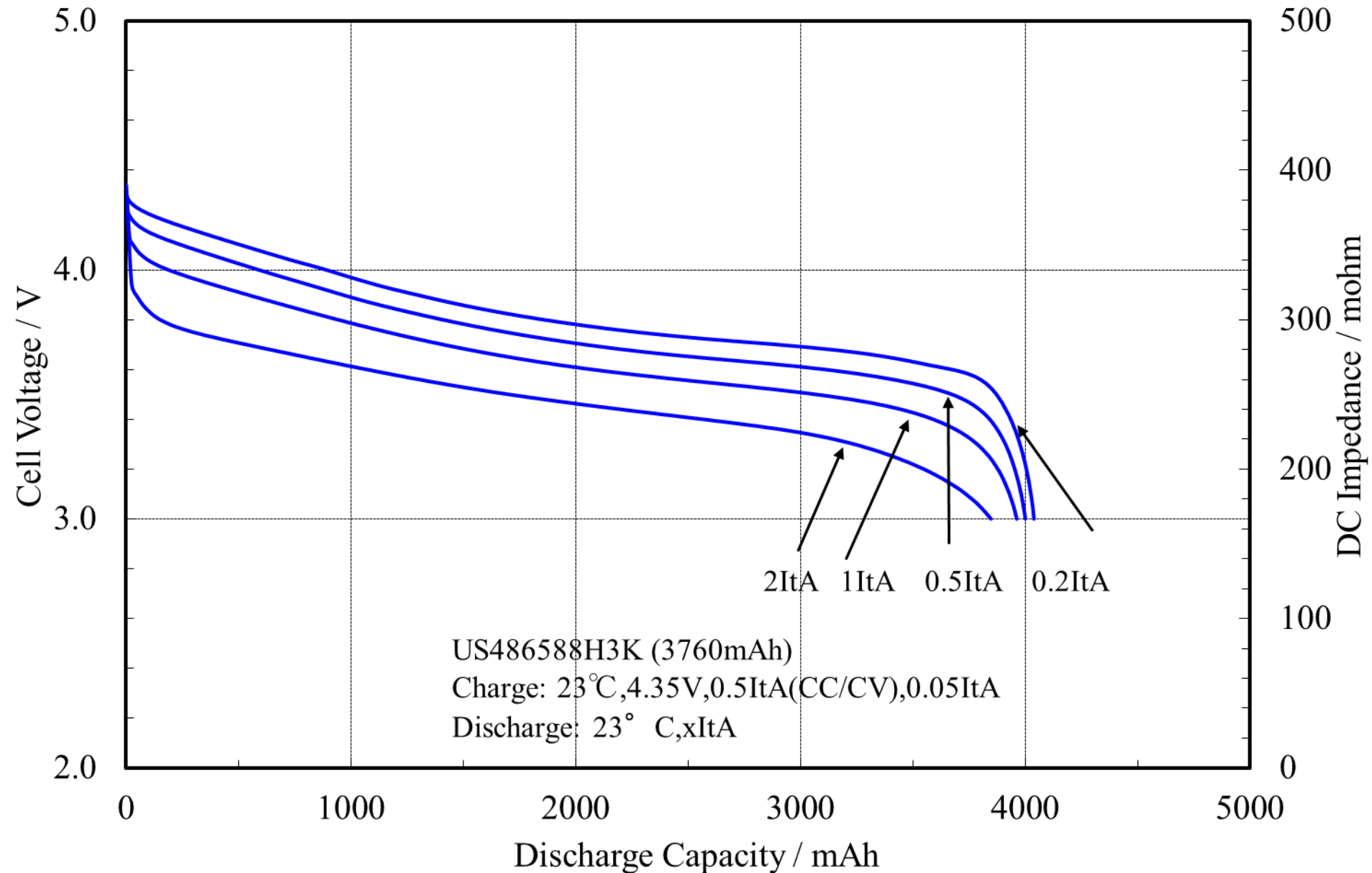
Charge Cut off Current : 188 mA

Ambiance Temperature : 23 °C

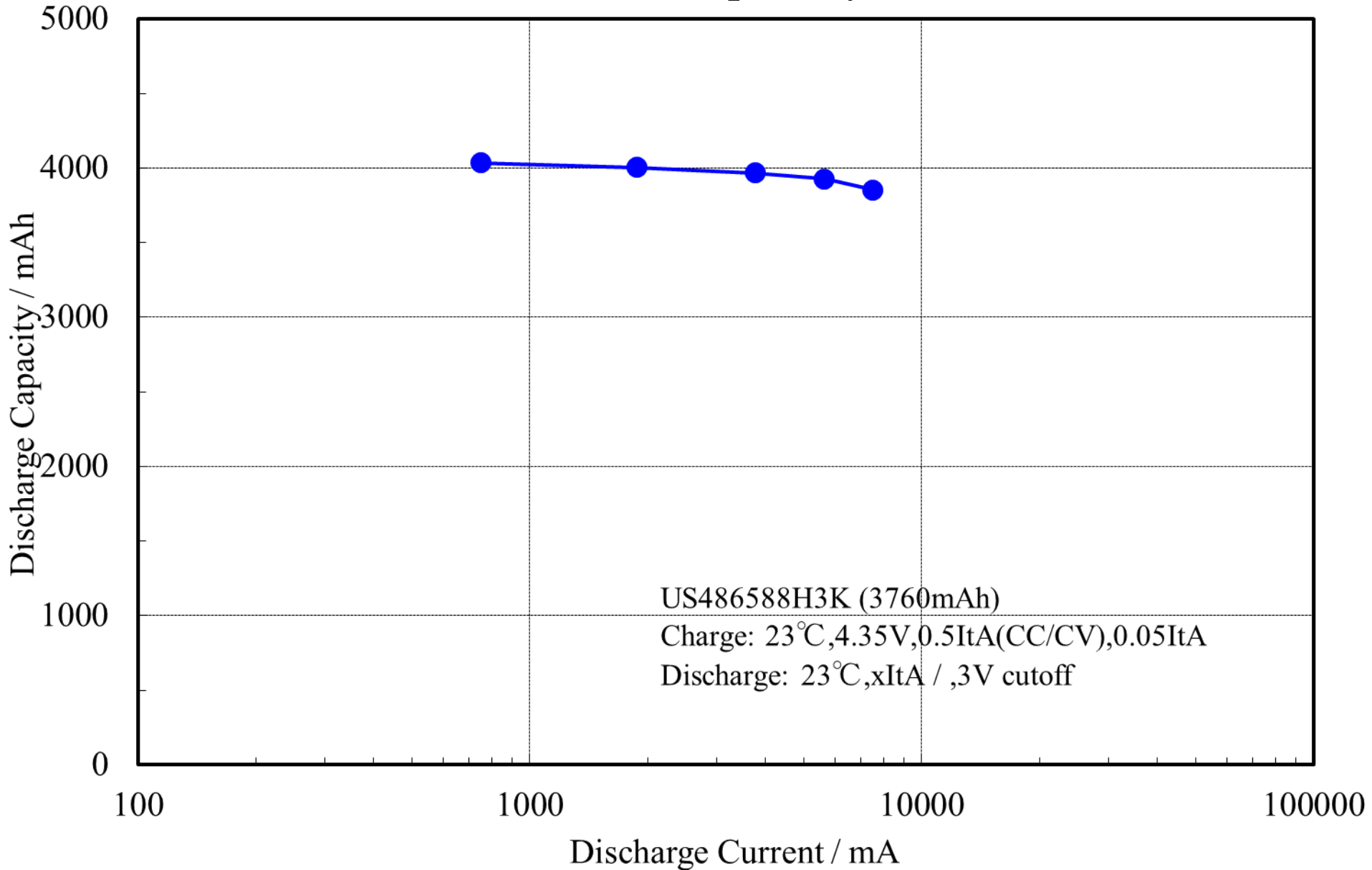
# Charging Profile



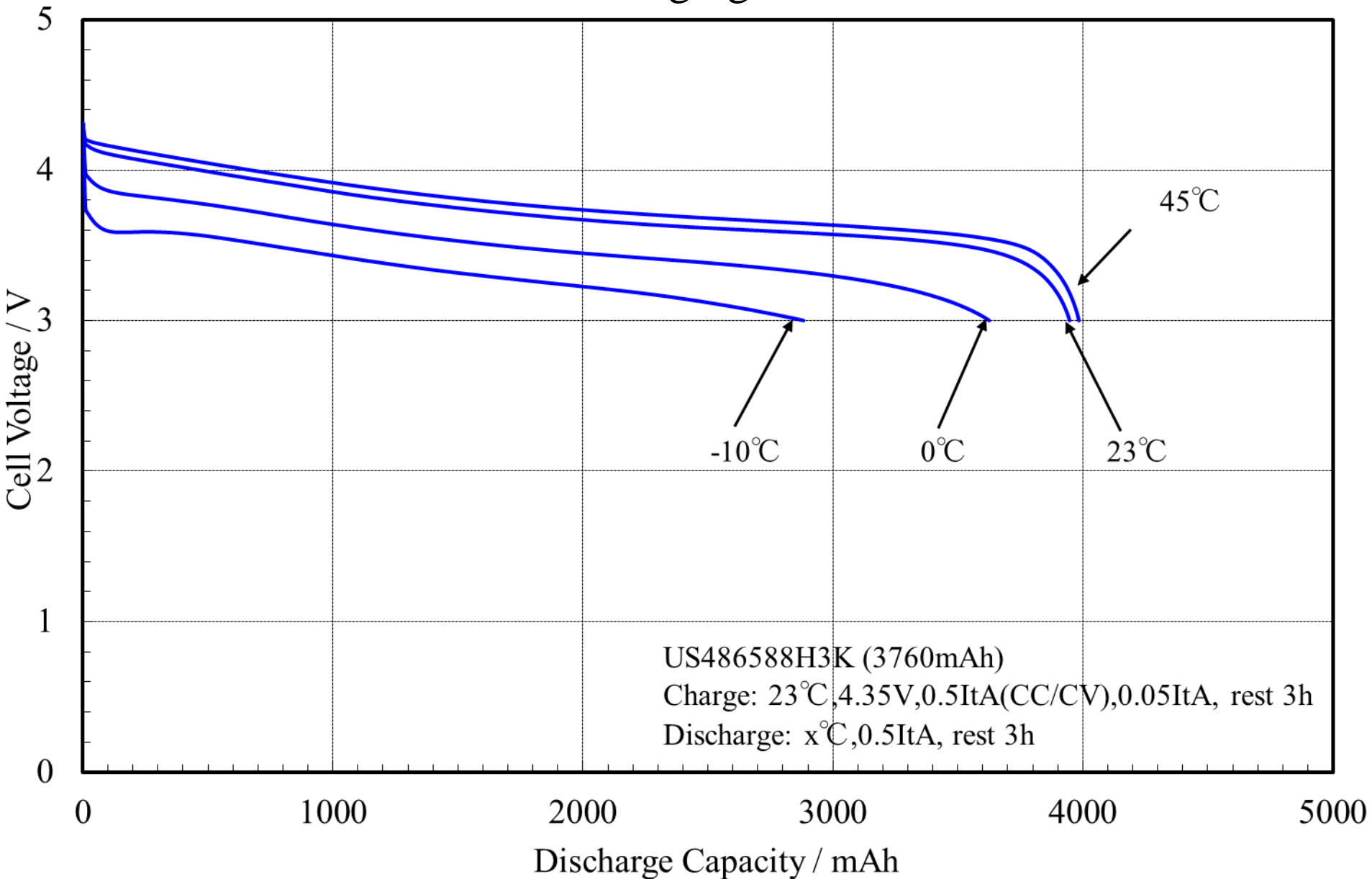
# Discharging Profile



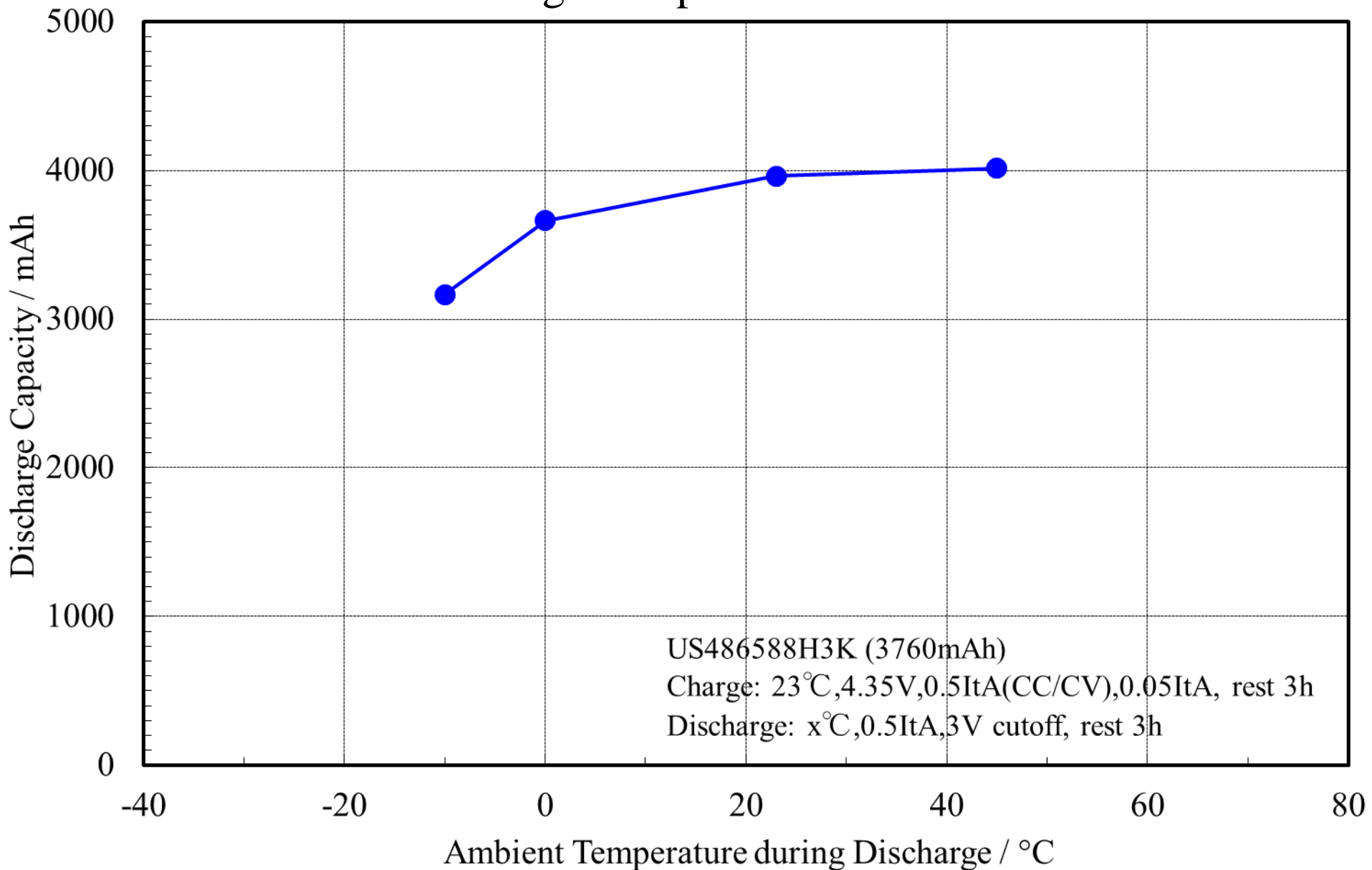
# Drain Capability



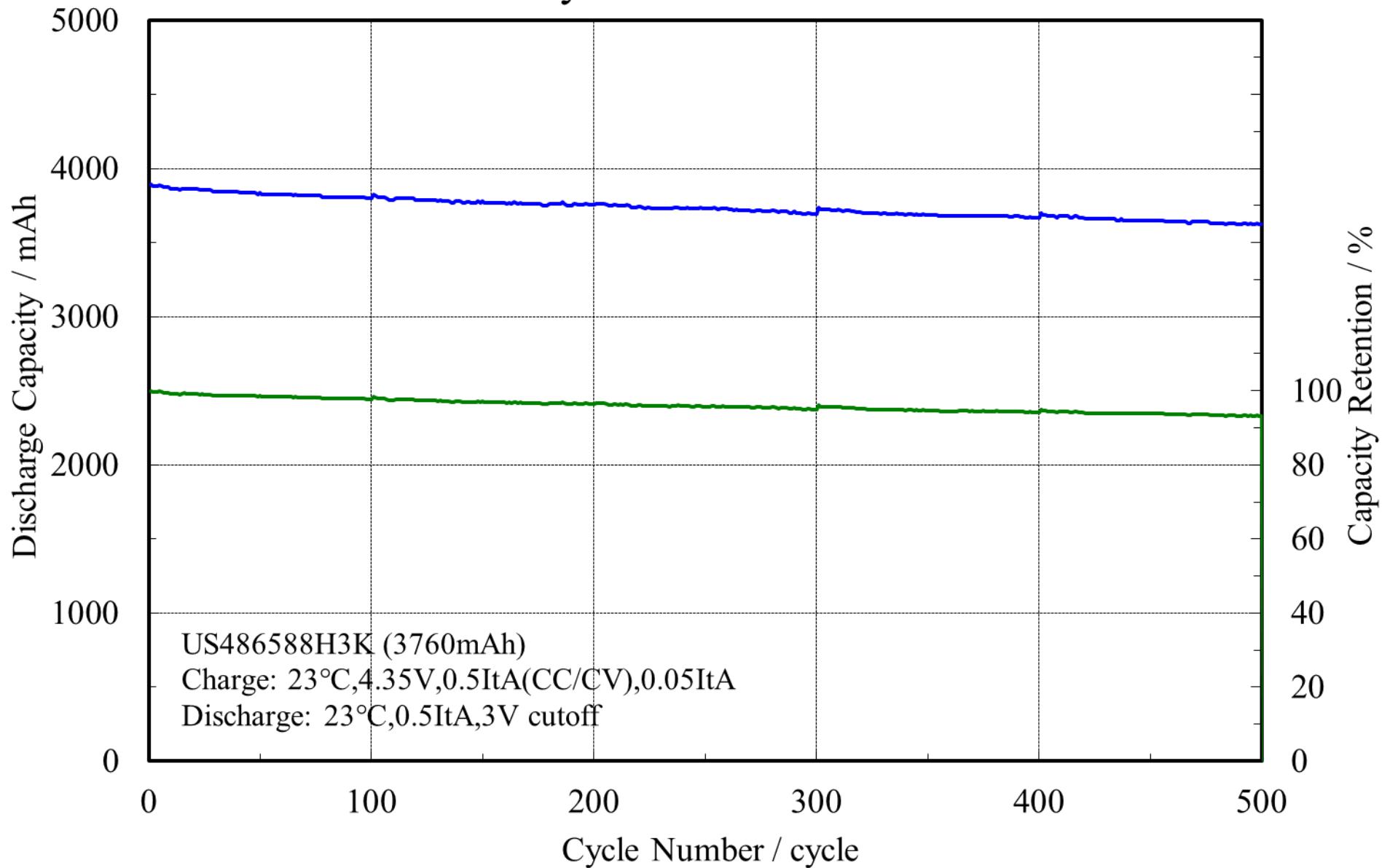
# Discharging Profile



# Discharge Temperature Performance



# Cycle Performance



# Cell Size (US486588H3K)

