

## 1. General

### **1.1 Scope**

This specification applies to type

: US436177H5 Lithium Ion Polymer Rechargeable Battery

### **1.2 Name and Code**

**1.2.1 Cell Name** : US436177H5

**1.2.2 Model Number** : US436177H5

**1.2.3 Code** : 49935960

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

**1.3.1 Cell Shape** : Polymer

**1.3.2 Size** : Thickness 4.21 mm max

Width 60.9 mm max

Length(without Tab) 76.7 mm max

**1.3.3 Weight** : 46.3 g (typical)

### **1.4 Reference test current**

1.0 ItA: 3020 mA

### **1.5 Safety Regulation**

Murata acquired UL1642

## 2. Performance

at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	3110mAh	average capacity 3.8 V (average discharge voltage)
	11.81 Wh	
Rated Capacity (0.2ItA discharge)	3020mAh	minimum capacity
	11.48 Wh	
Capacity at 0.5ItA	2960mAh	average capacity
	11.18 Wh	
Capacity at 1.0ItA	2843mAh	average capacity
	10.5 Wh	
Nominal Voltage	3.8 V	
Internal Impedance	32 mΩ	measured by AC1 kHz
Cycle Performance	80% of Initial capacity at 500 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 : 1.51 A

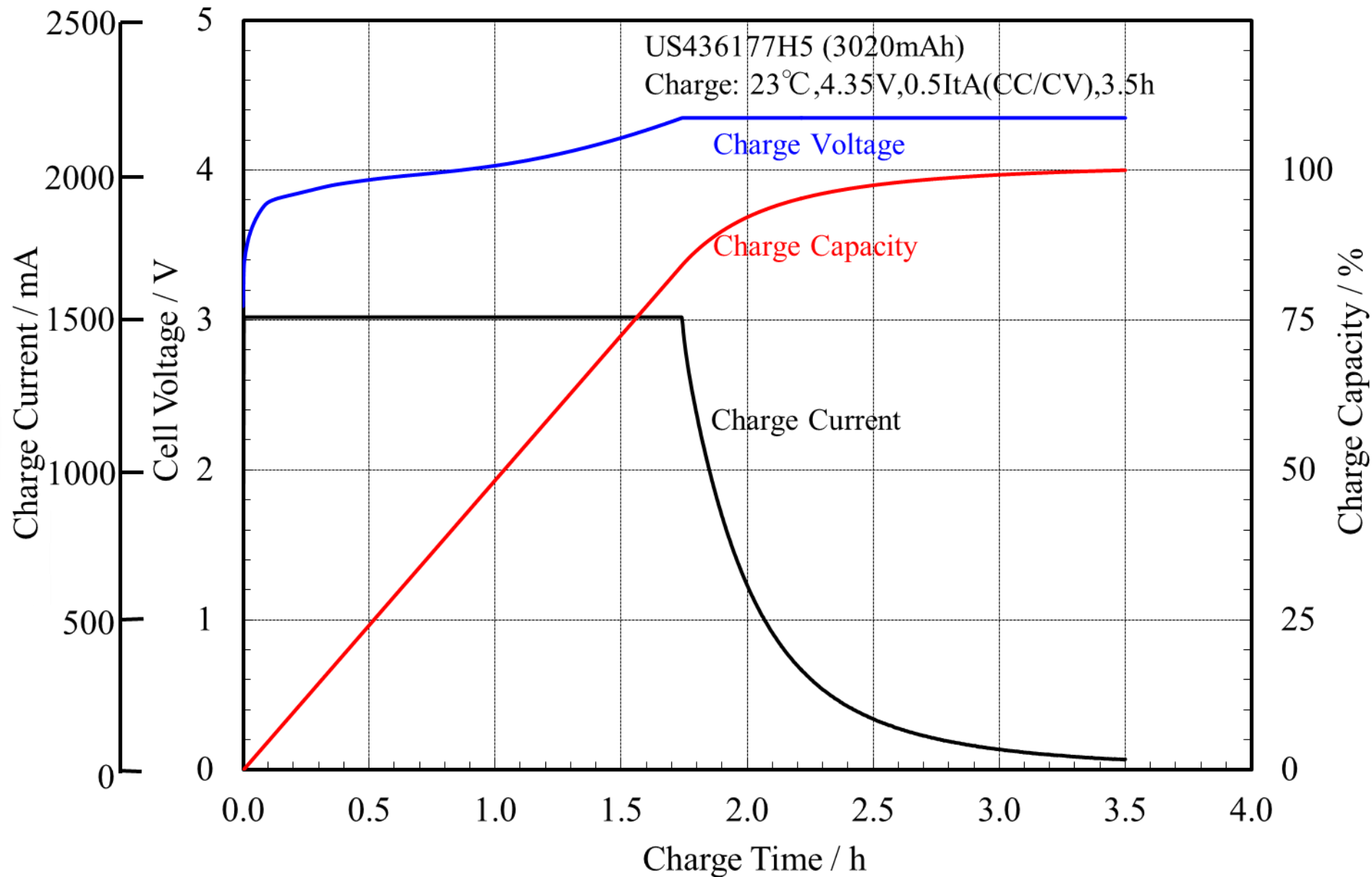
Charge Cut off Current : 3.5 h

Ambiance Temperature : 23 °C

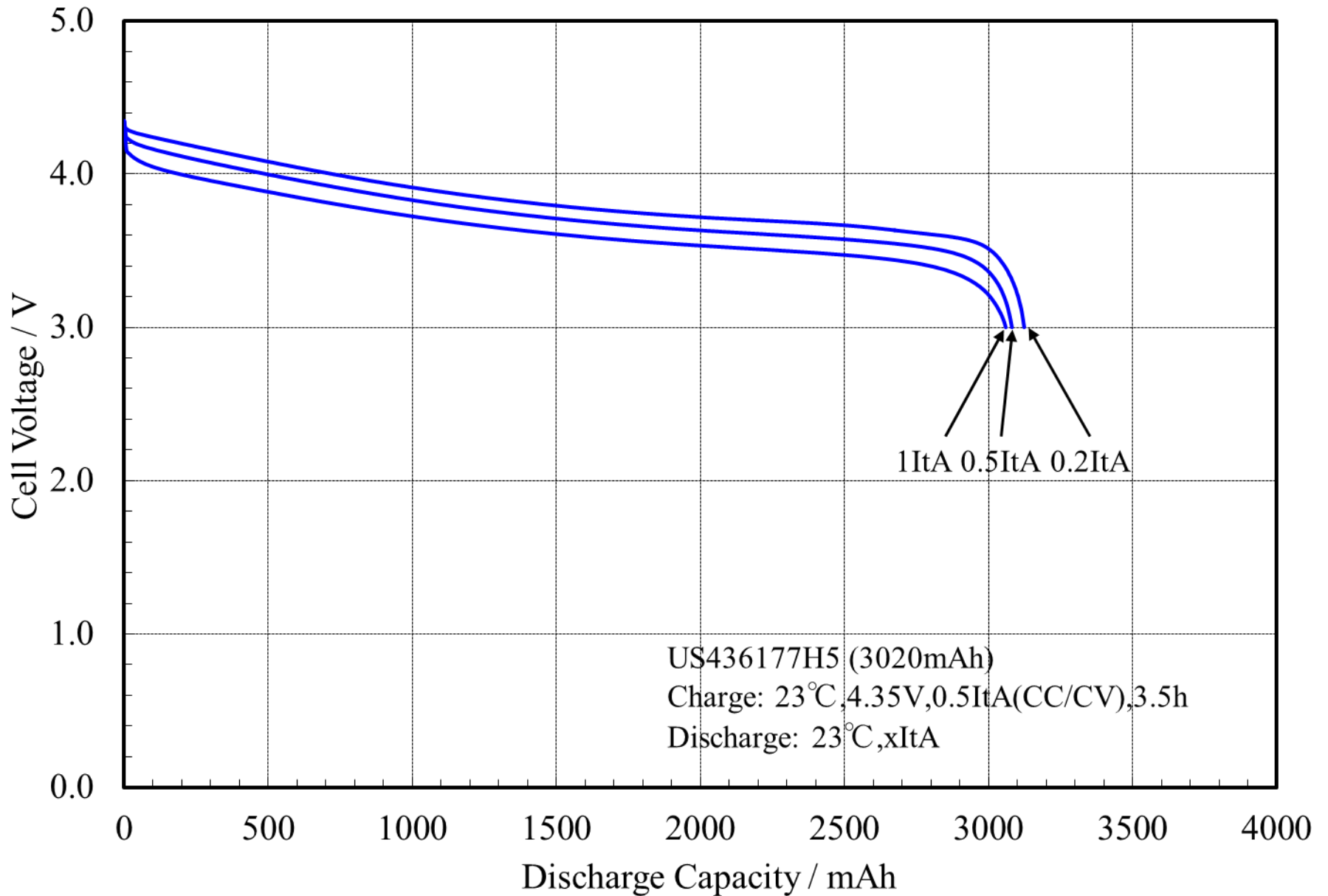
# Charging Profile

US436177H5 (3020mAh)

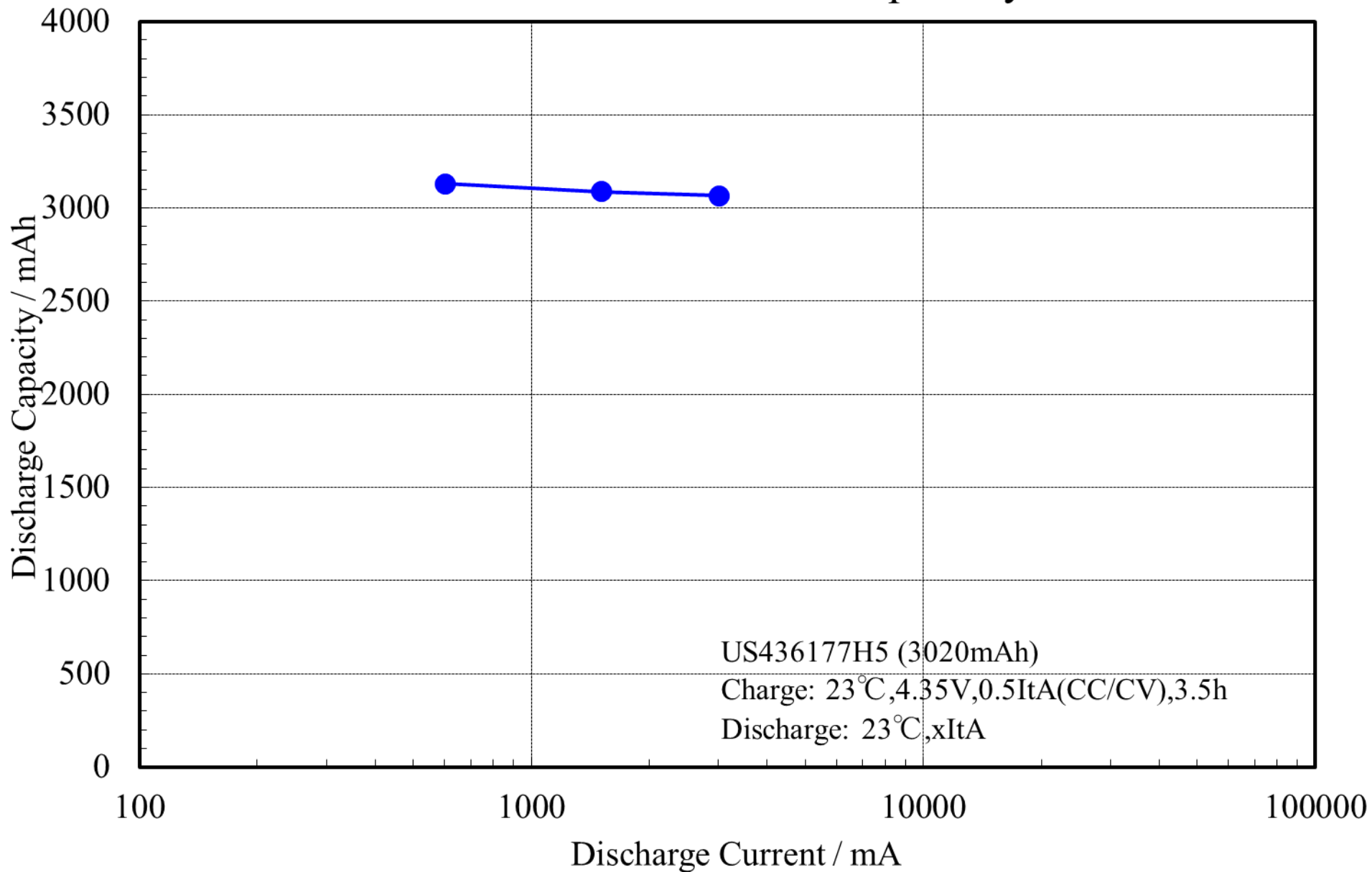
Charge: 23°C, 4.35V, 0.5ItA(CC/CV), 3.5h



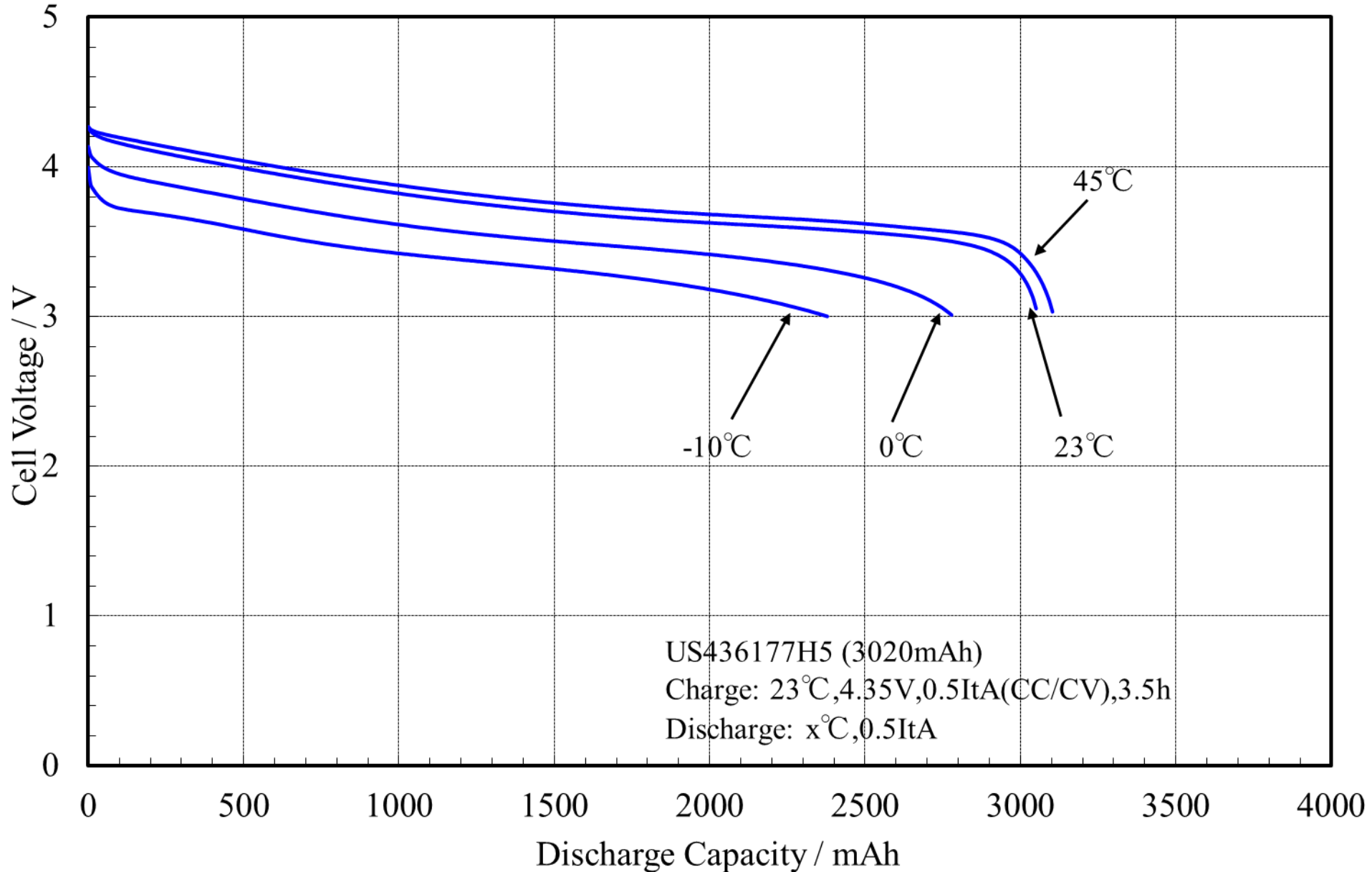
# Discharging Profile



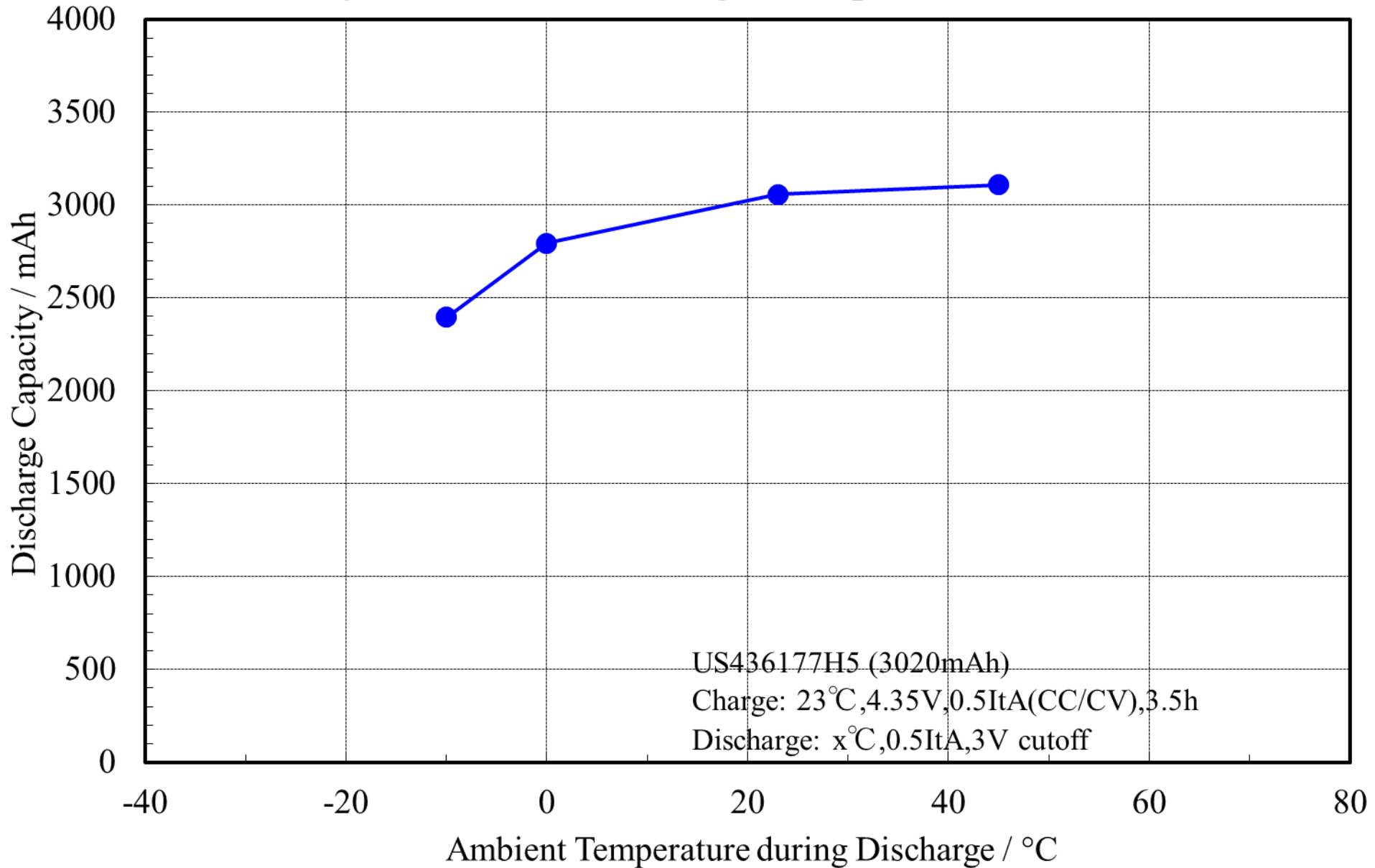
# Drain Capability



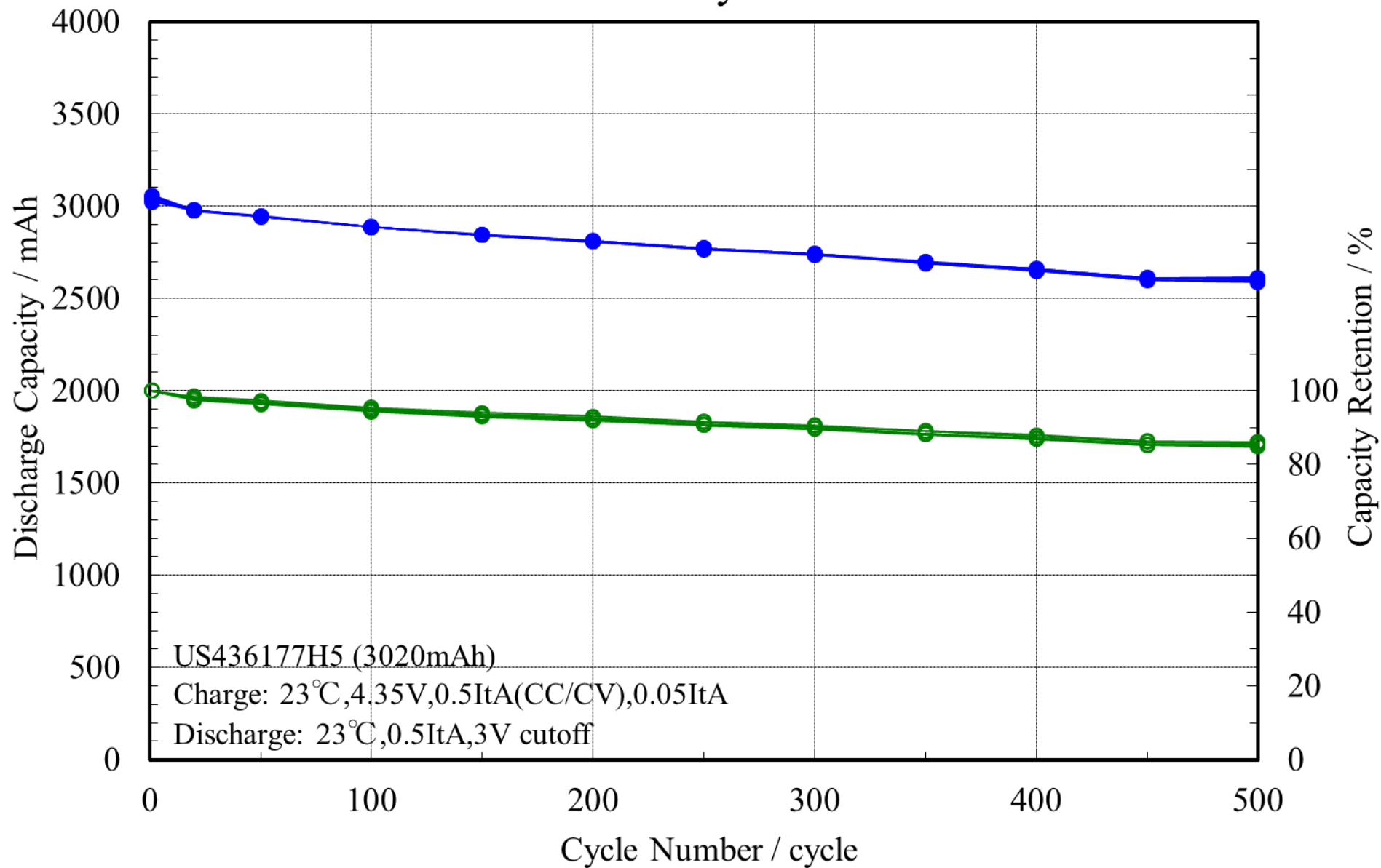
# Discharging Profile



# Discharge Temperature Performance



# Cycle Performance



# Cell Size ( US436177H5)

