

## 1. General

### **1.1 Scope**

This specification applies to type

: US302135H5 Lithium Ion Polymer Rechargeable Battery

### **1.2 Name and Code**

**1.2.1 Cell Name** : US302135H5

**1.2.2 Model Number** : US302135H5

**1.2.3 Code** : 49941430

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

**1.3.1 Cell Shape** : Polymer

**1.3.2 Size** : Thickness 3 mm max  
Width 20.2 mm max  
Length(without Tab) 35 mm max

**1.3.3 Weight** : 4.2 g (typical)

### **1.4 Reference test current**

1.0 ItA: 215 mA

### **1.5 Safety Regulation**

Murata acquired UL1642

## 2. Performance

at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	224mAh	average capacity 3.8 V (average discharge voltage)
	0.85 Wh	
Rated Capacity (0.2ItA discharge)	215mAh	minimum capacity
	0.81 Wh	
Capacity at 0.5ItA	222mAh	average capacity
	0.84 Wh	
Capacity at 1.0ItA	217mAh	average capacity
	0.81 Wh	
Nominal Voltage	3.8 V	
Internal Impedance	145 mΩ	measured by AC1 kHz
Cycle Performance	65% of Initial capacity at 500 cycles	0.5 ItA discharge rate

### **\*Standard Charge Condition**

Charge Method : constant current / constant voltage

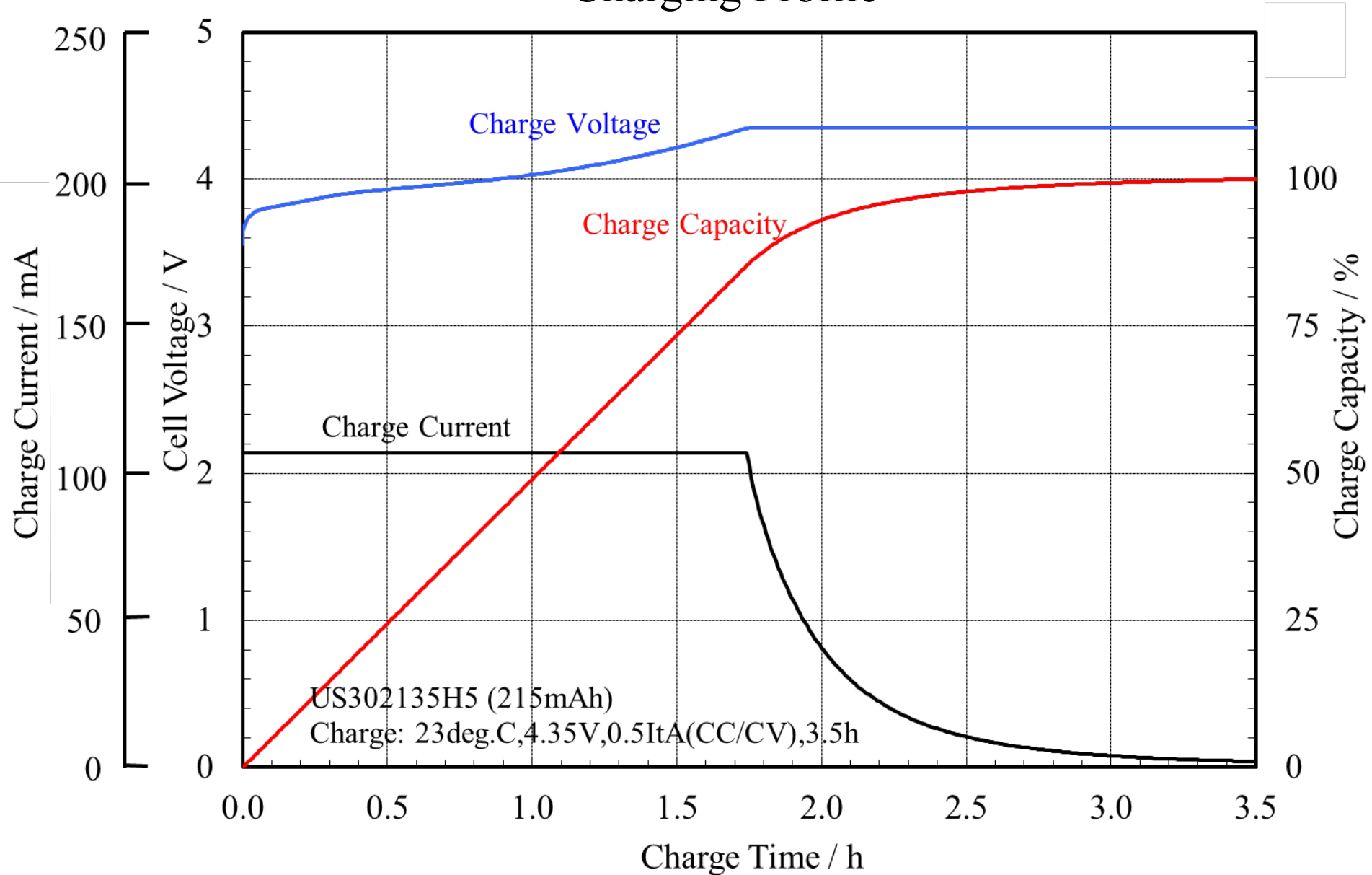
Charge Up Voltage : 4.35 ± 0.05 V

Charge Current : 0.107 A

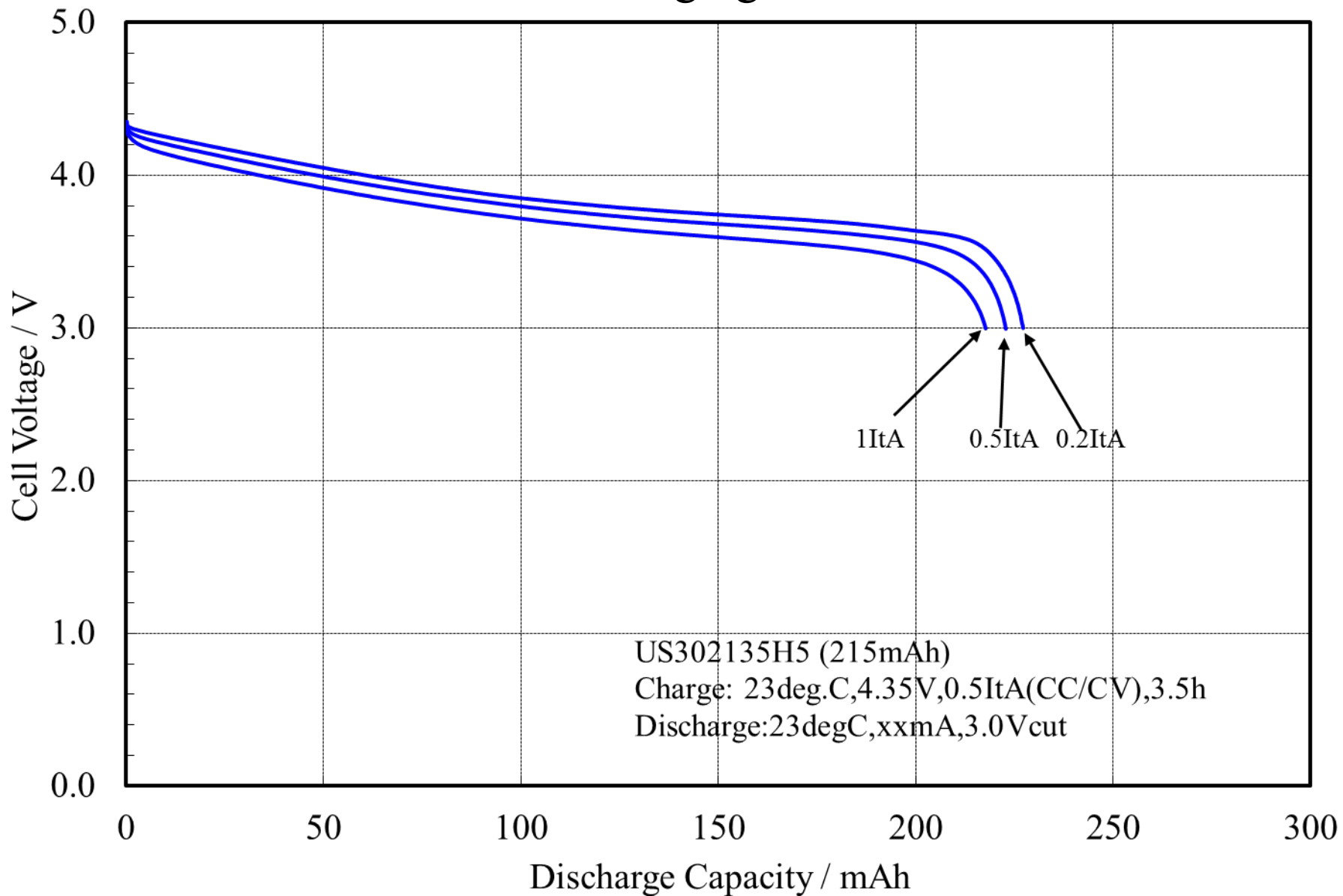
Charge Cut off Current: 3.5 h

Ambiance Temperature: 23 °C

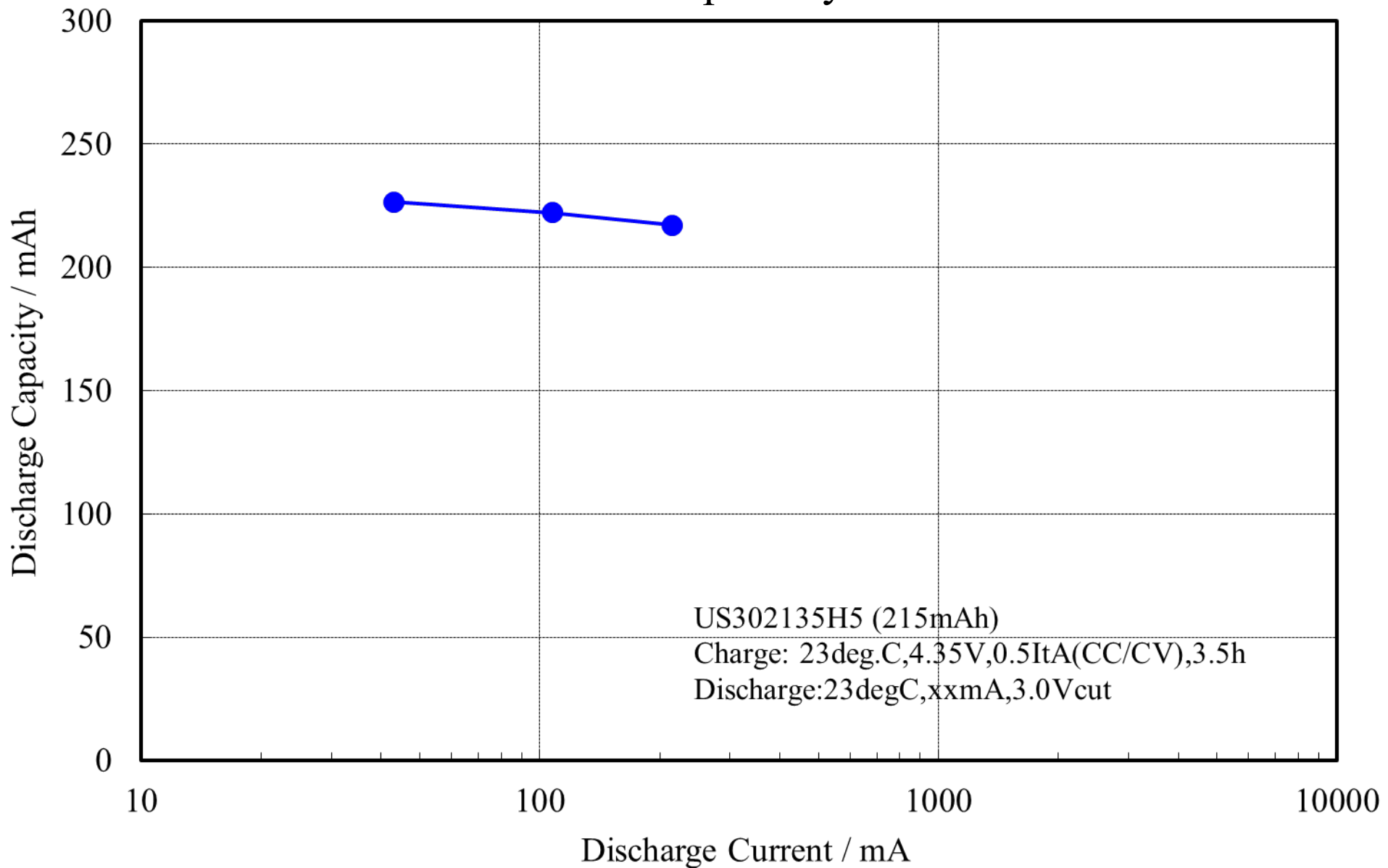
# Charging Profile



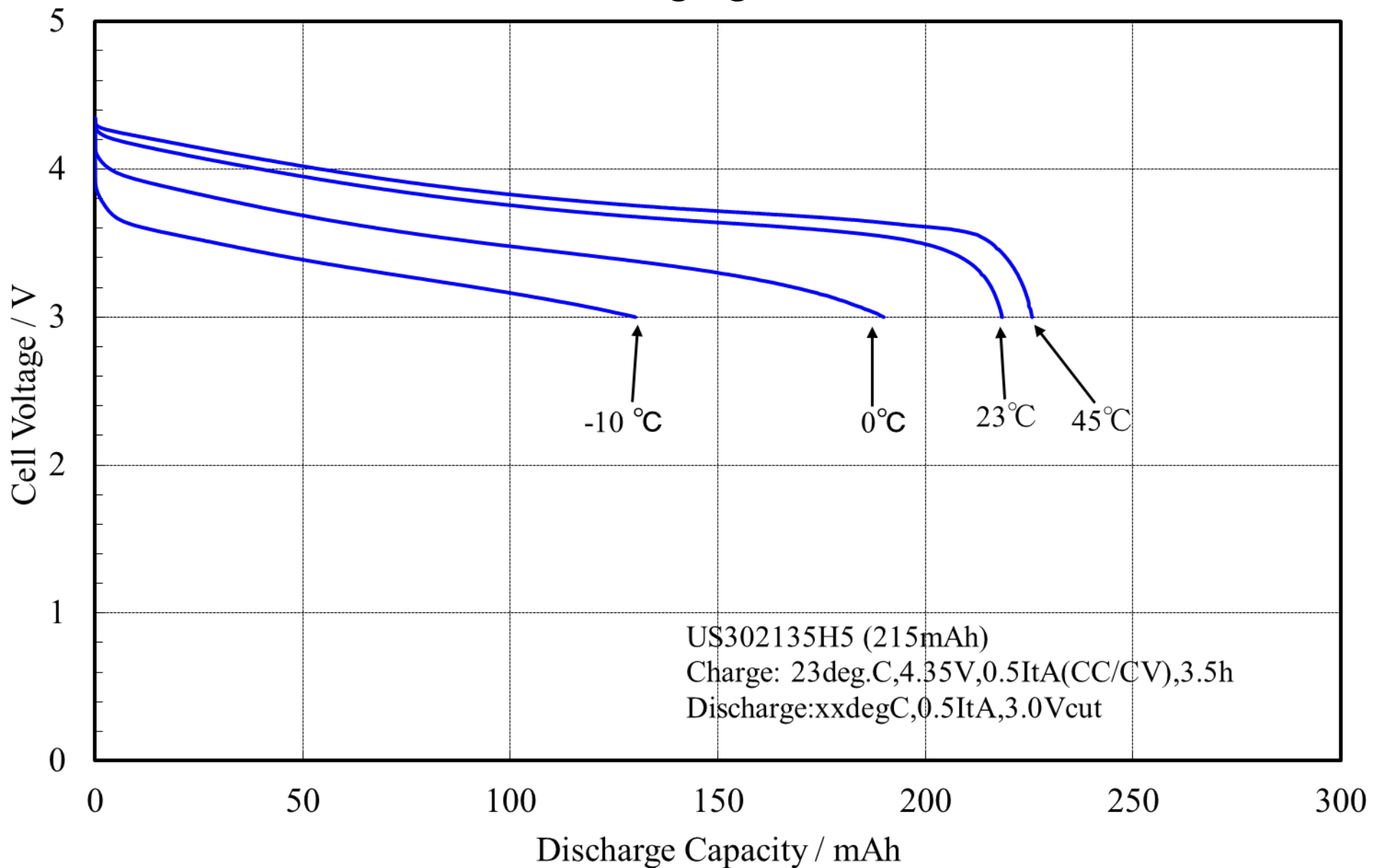
# Discharging Profile



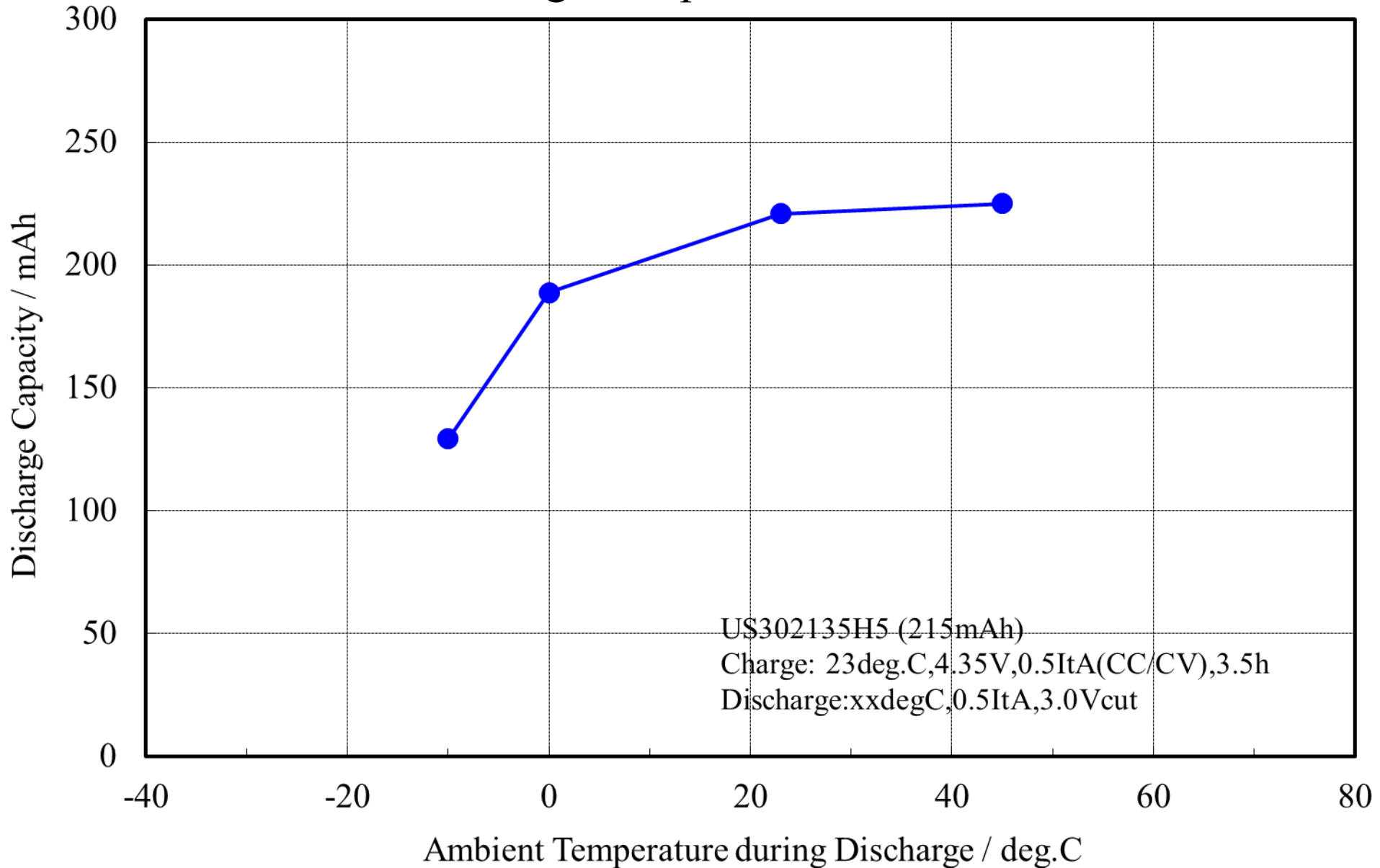
# Drain Capability



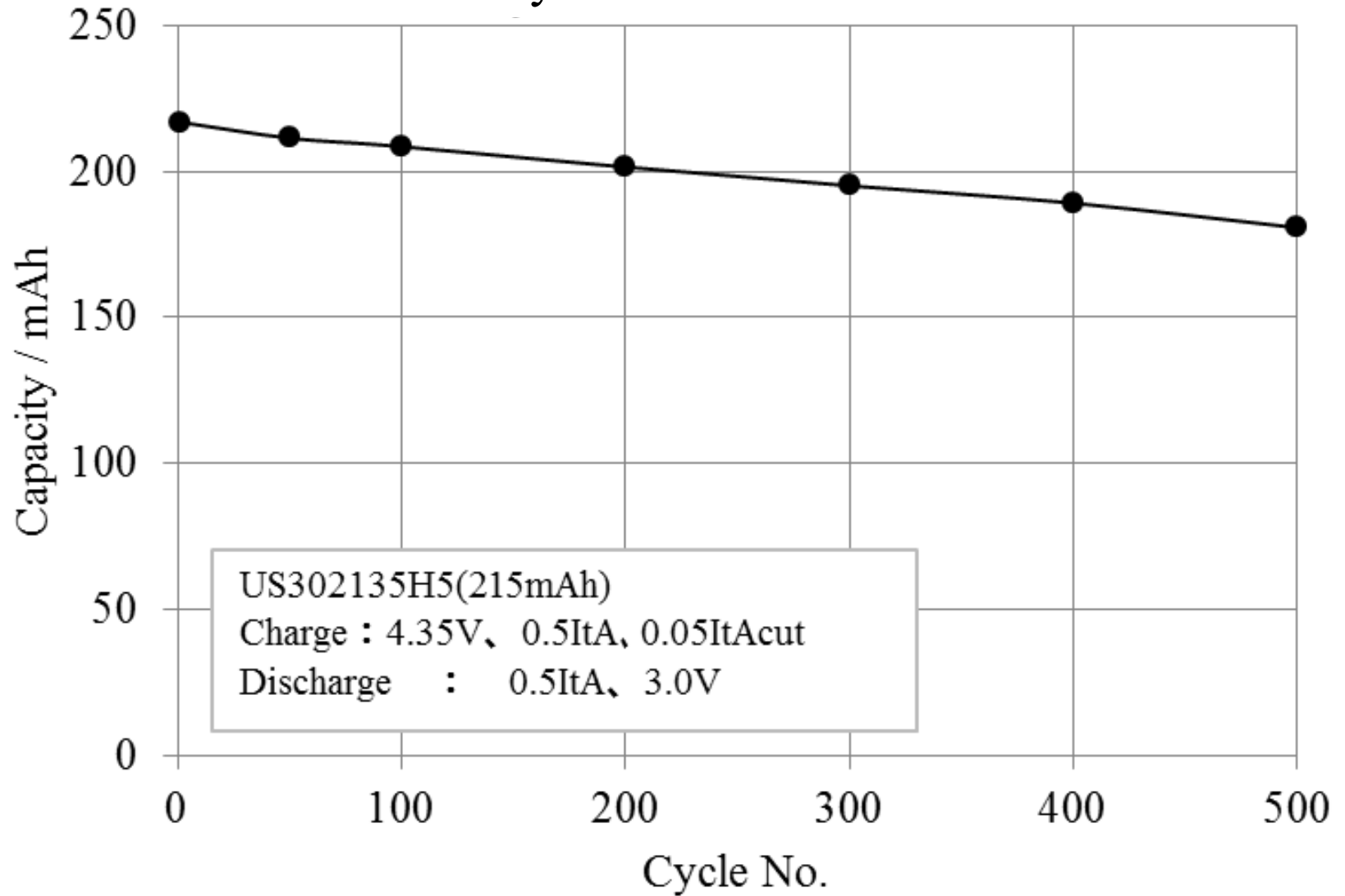
# Discharging Profile



# Discharge Temperature Performance



## Cycle Performance



# Cell Size (US302135H5)

