

## 1. General

### *1.1 Scope*

This specification applies to type

: US491222A10S Lithium Ion Polymer Rechargeable Battery

### *1.2 Name and Code*

**1.2.1 Cell Name** : US491222

**1.2.2 Model Number** : US491222A10S

**1.2.3 Code** : 49940570

### *1.3 Cell Shape and Weight*

**1.3.1 Cell Shape** : Polymer

**1.3.2 Size** : Thickness 4.9 mm max  
Width 11.8 mm max  
Length(without Tab) 22 mm max

**1.3.3 Weight** : 2.1 g (typical)

### *1.4 Reference test current*

1.0 ItA: 81 mA

### *1.5 Safety Regulation*

acquired UL1642

## 2. Performance

at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	92mAh	average capacity 3.82 V (average discharge voltage)
	0.35 Wh	
Rated Capacity (0.2ItA discharge)	81mAh	minimum capacity
	0.3 Wh	
Capacity at 0.5ItA	91mAh	average capacity
	0.34 Wh	
Capacity at 1.0ItA	88mAh	average capacity
	0.33 Wh	
Nominal Voltage	3.7 V	
Internal Impedance	210 mΩ	measured by AC1 kHz
Cycle Performance	80% of Initial capacity at 400 cycles	1.0 ItA discharge rate

### \*Standard Charge Condition

Charge Method : constant current / constant voltage

Charge Up Voltage : 4.2 ± 0.05 V

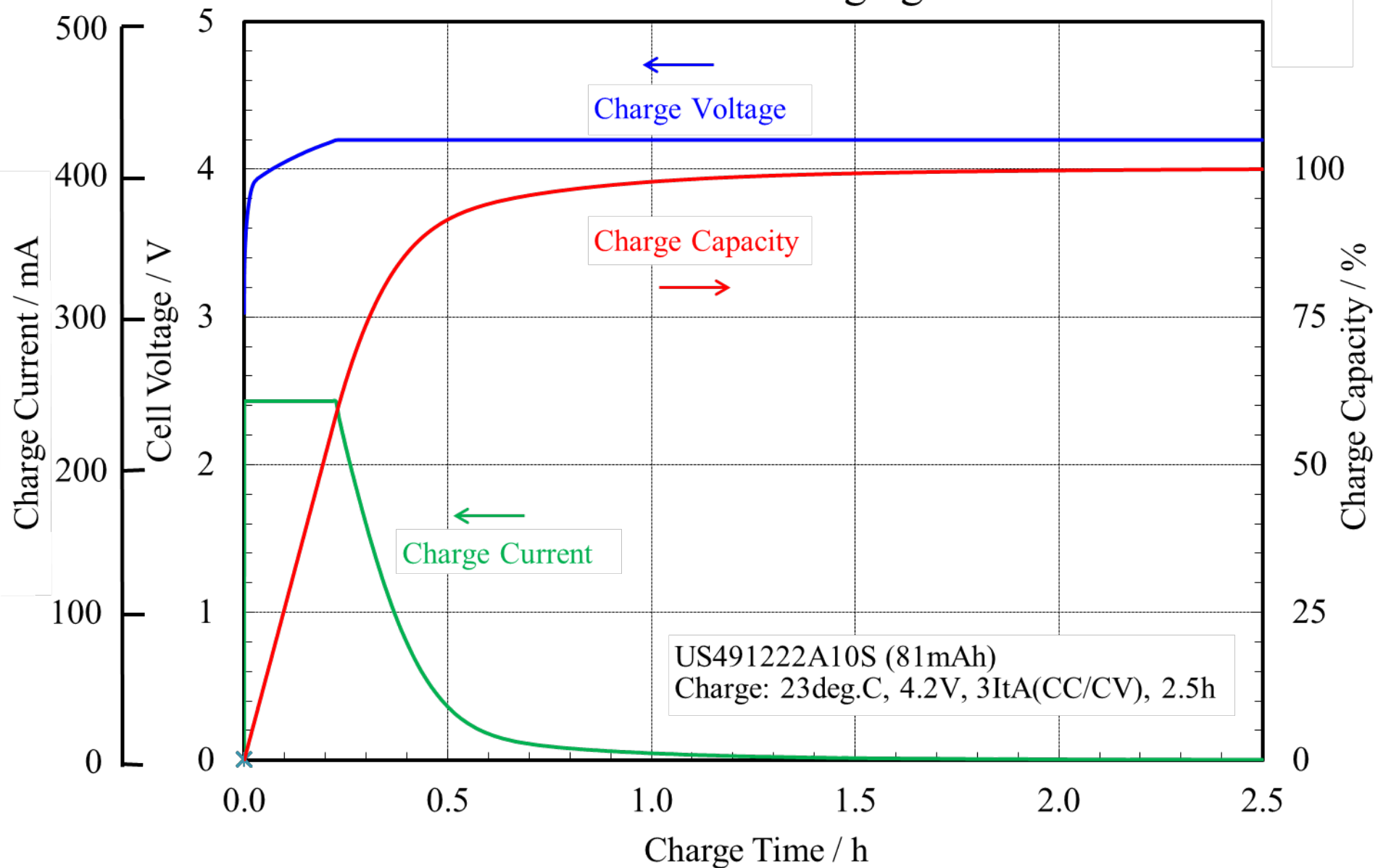
Charge Current : 0.243 A

Charge Cut off Time : 2.5 h

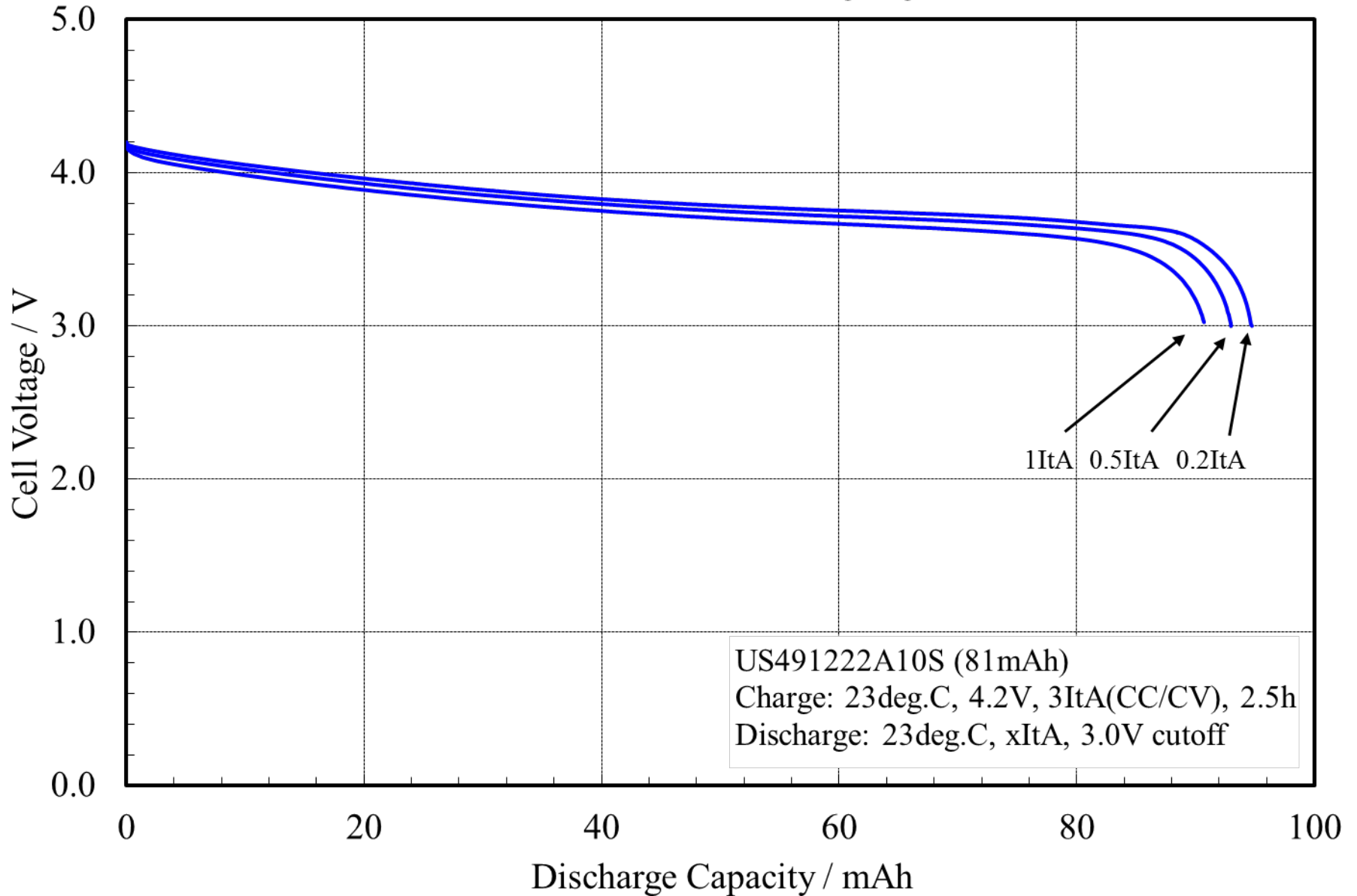
Ambiance Temperature : 23 °C

\*Maximum Charge Current : 0.259 A

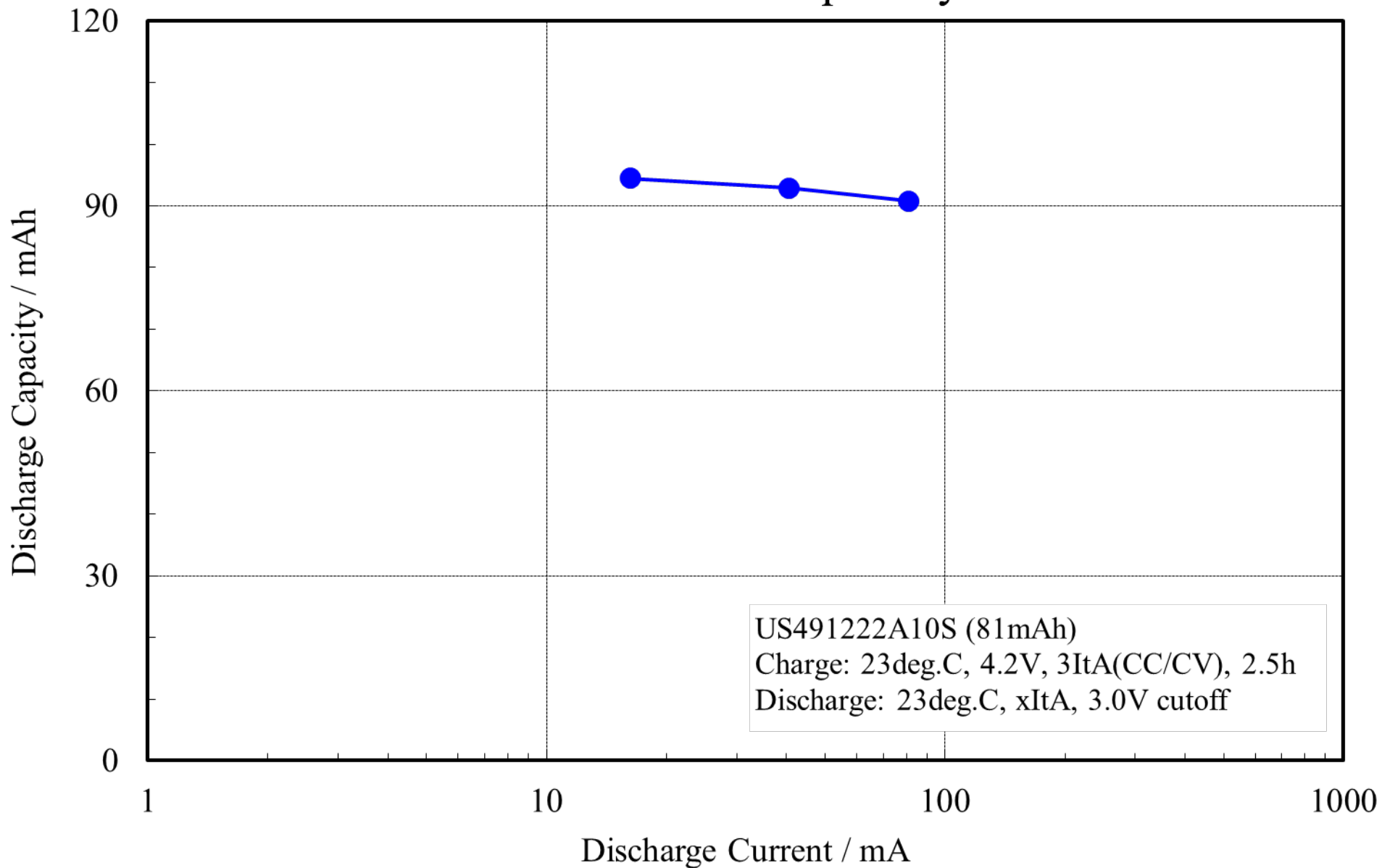
# Charging Profile



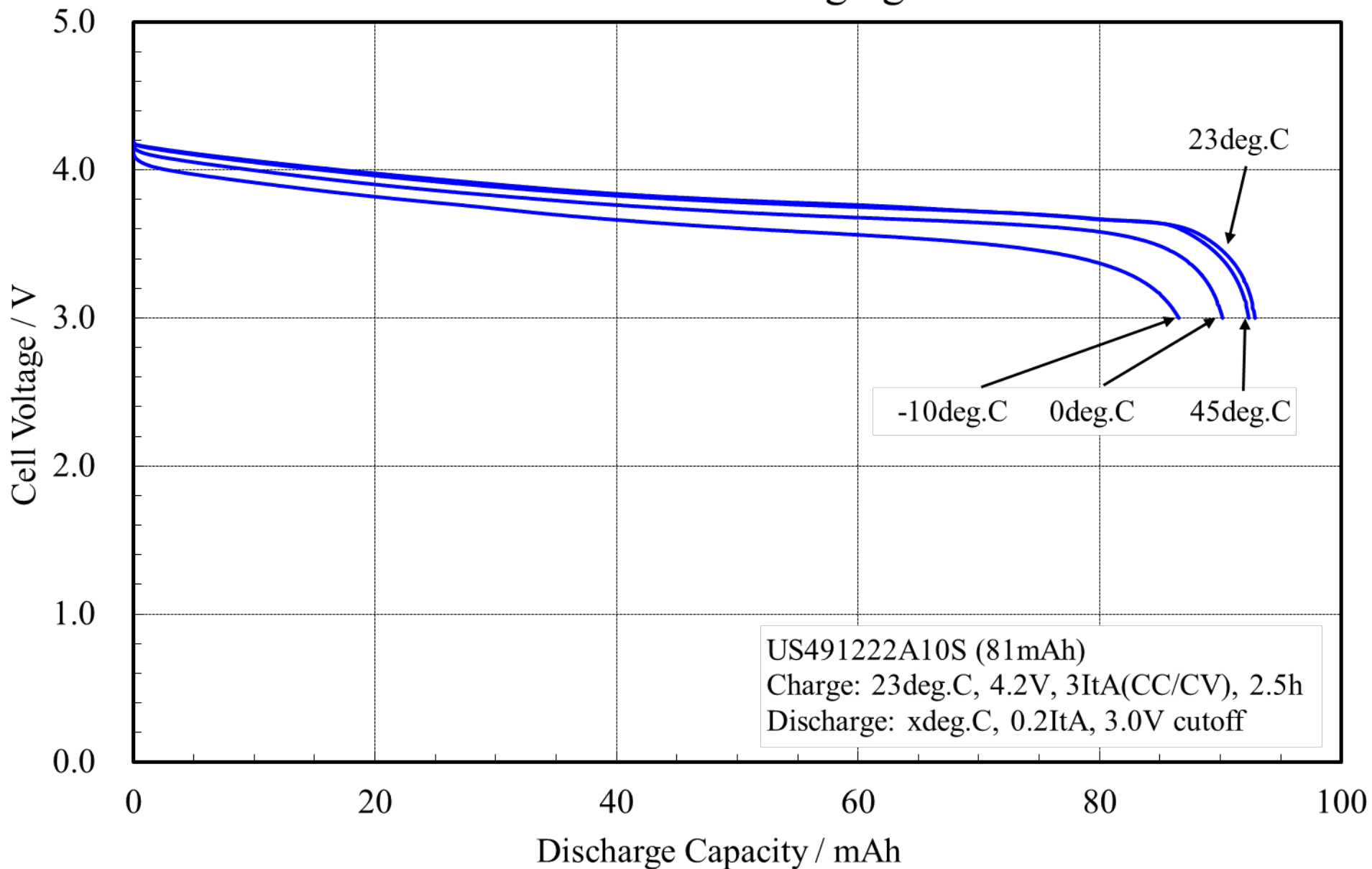
# Discharging Profile



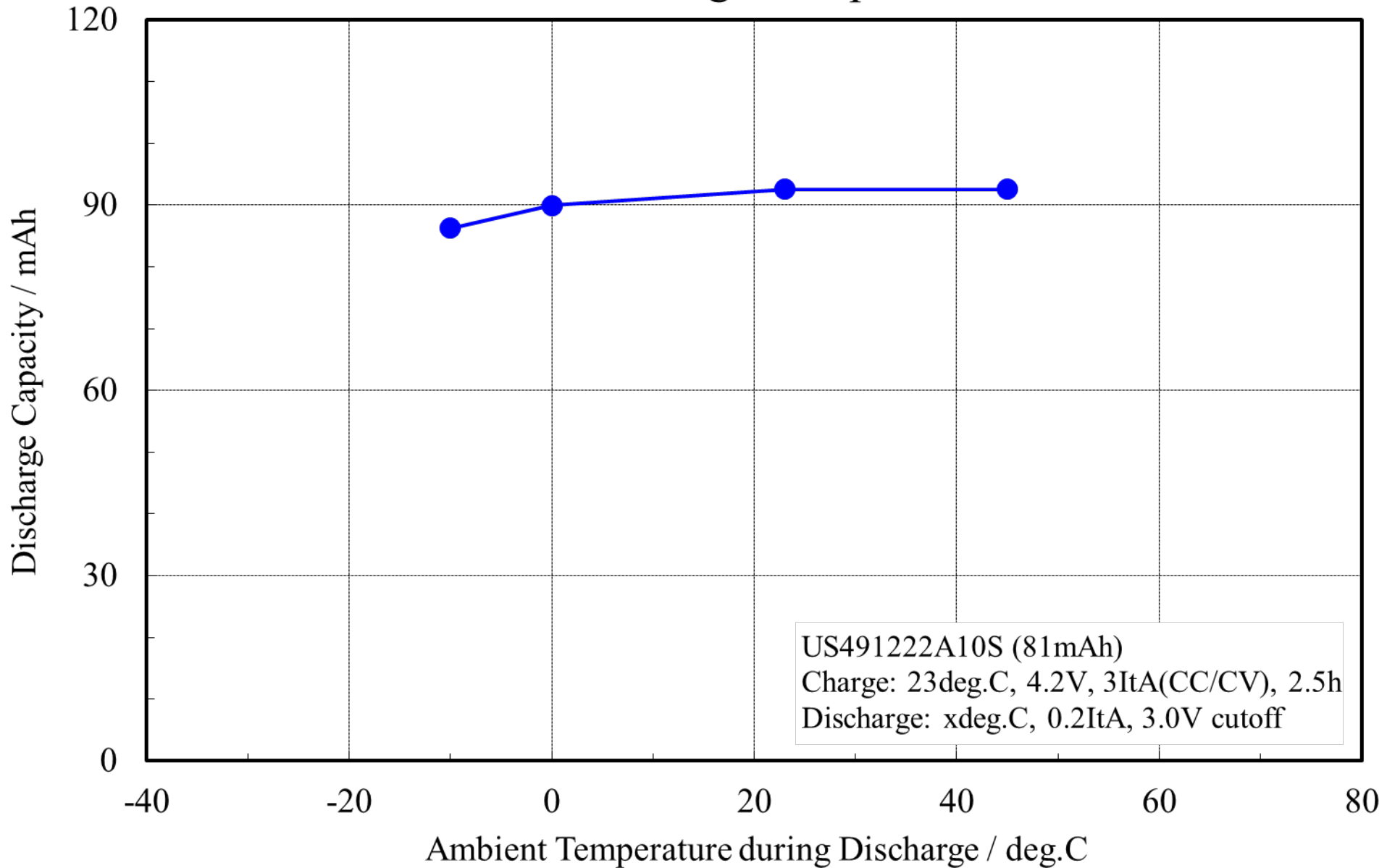
# Drain Capability



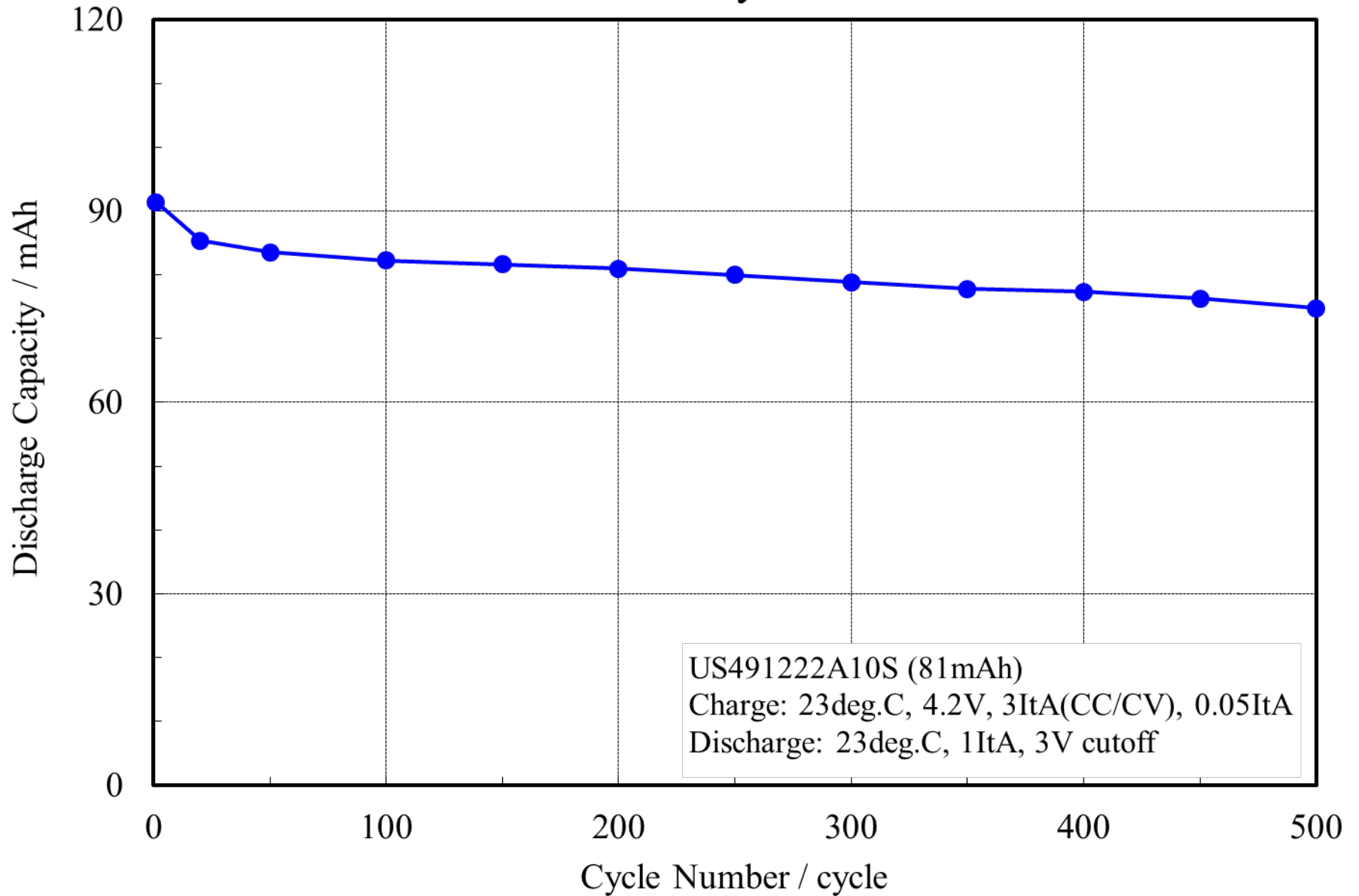
# Discharging Profile



# Discharge Temperature Performance



# Cycle Performance



# Cell Size (US491222A10S)

