

## 1. General

### *1.1 Scope*

This specification applies to type

: US455676H5 Lithium Ion Polymer Rechargeable Battery

### *1.2 Name and Code*

**1.2.1 Cell Name** : US455676H5

**1.2.2 Model Number** : US455676H5

**1.2.3 Code** : 49941810

: 49942751 (SOC 30% less than)

### *1.3 Cell Shape and Weight*

**1.3.1 Cell Shape** : Polymer

**1.3.2 Size** : Thickness 4.41 mm max  
Width 55.3 mm max  
Length(without Tab) 76 mm max

**1.3.3 Weight** : 43.4 g (typical)

### *1.4 Reference test current*

1.0 ItA: 2710 mA

### *1.5 Safety Regulation*

Murata acquired UL1642

## 2. Performance

at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	2800mAh	average capacity 3.8 V (average discharge voltage)
	10.64 Wh	
Rated Capacity (0.2ItA discharge)	2710mAh	minimum capacity
	10.3 Wh	
Capacity at 0.5ItA	2656mAh	average capacity
	9.91 Wh	
Capacity at 1.0ItA	2551mAh	average capacity
	9.23 Wh	
Nominal Voltage	3.8 V	
Internal Impedance	35 mΩ	measured by AC1 kHz
Cycle Performance	80% of Initial capacity at 500 cycles	

\*Standard Charge Condition

Charge Method : constant current / constant voltage

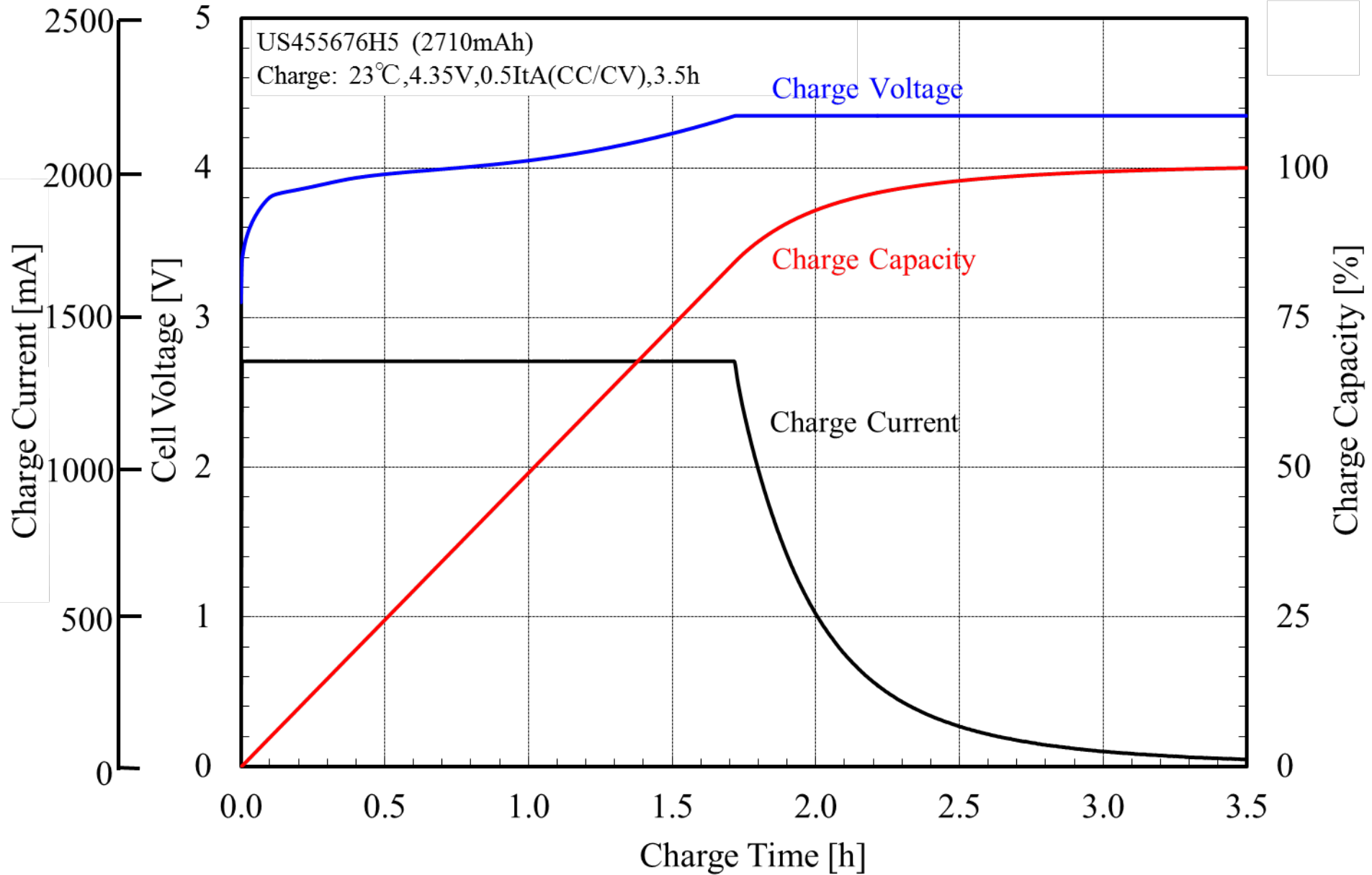
Charge Up Voltage : 4.35 ± 0.05 V

Charge Current : 1.355 A

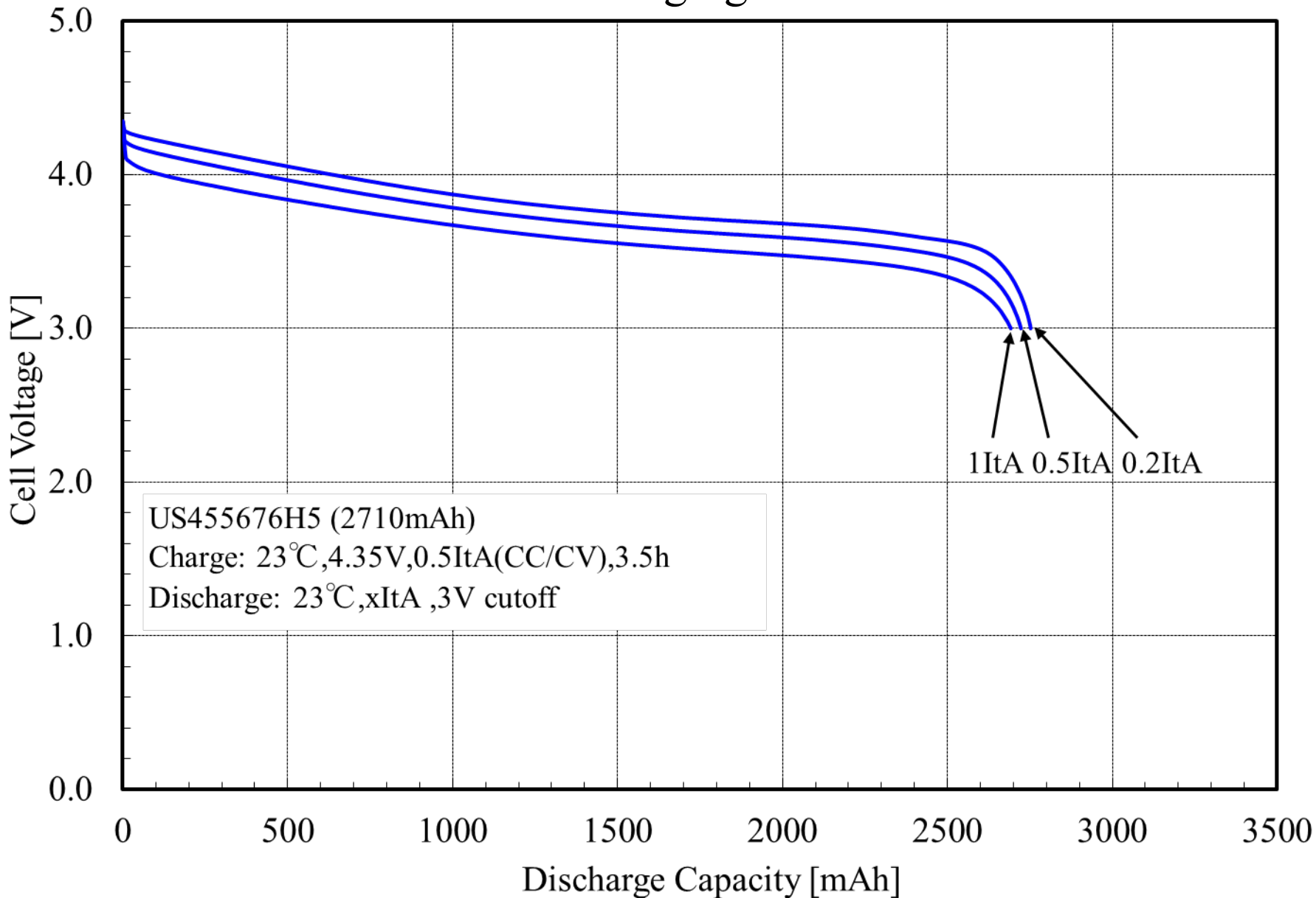
Charge Time : 3.5 h

Ambiance Temperature : 23 °C

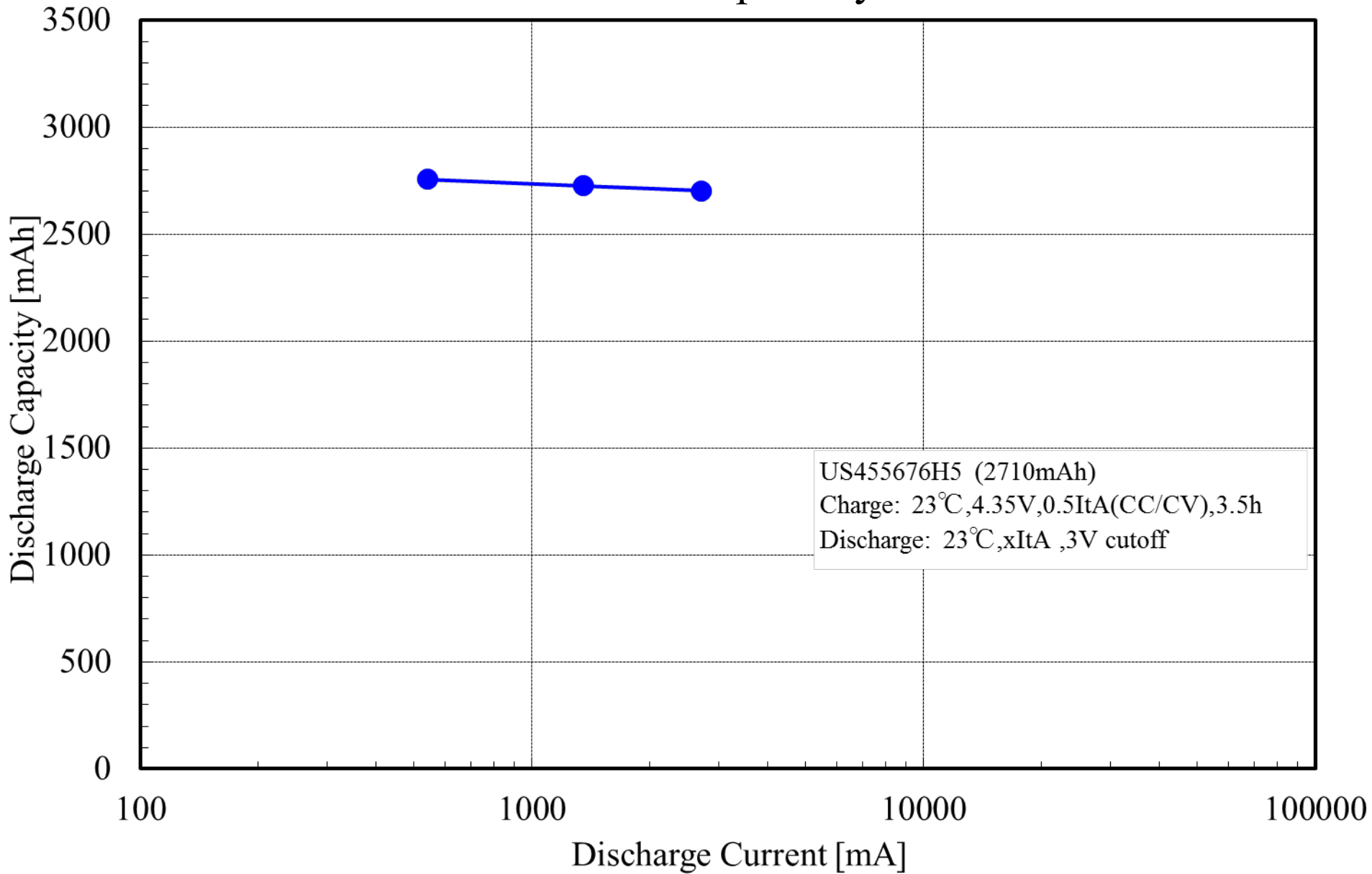
# Charging Profile



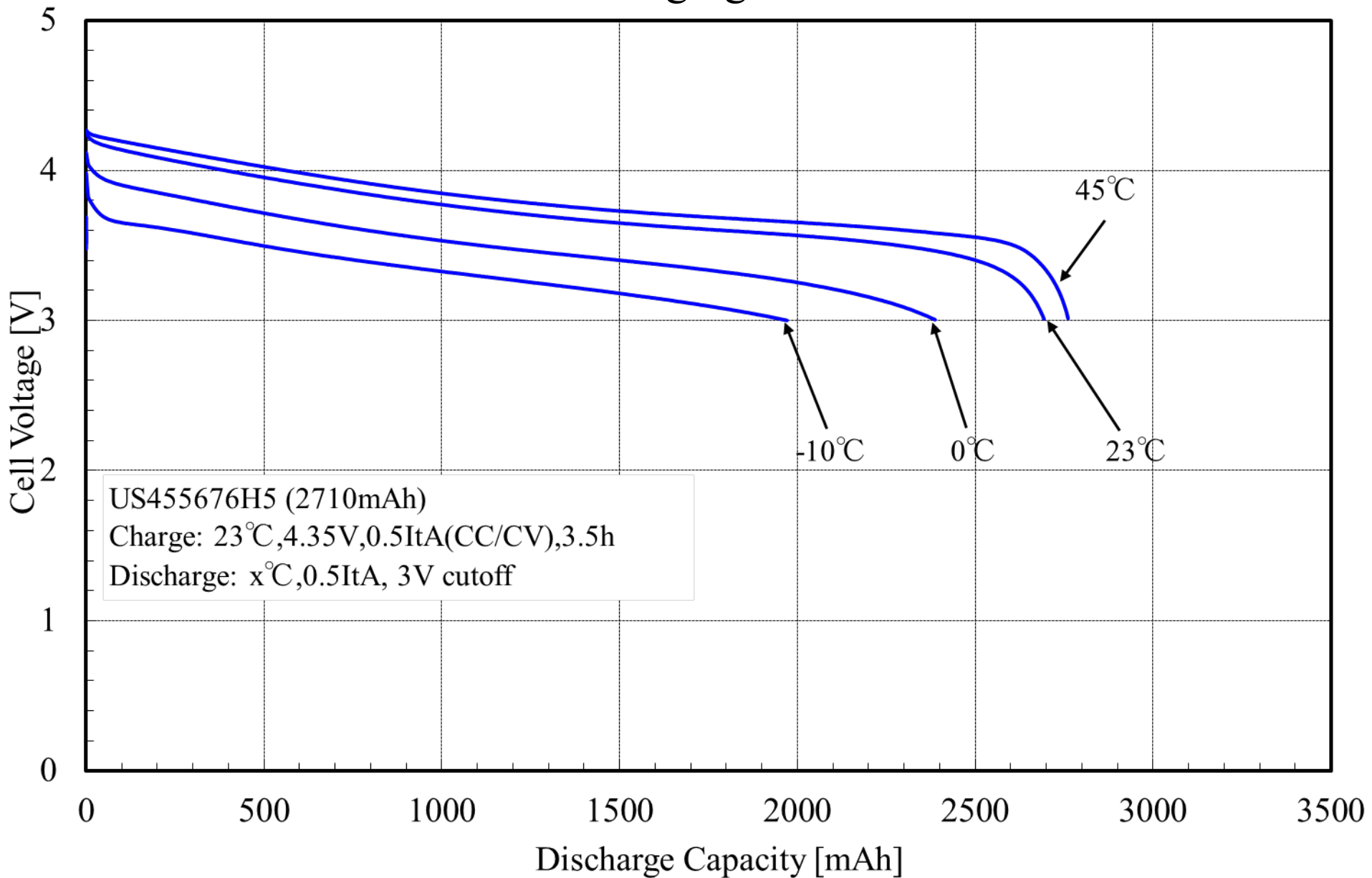
# Discharging Profile



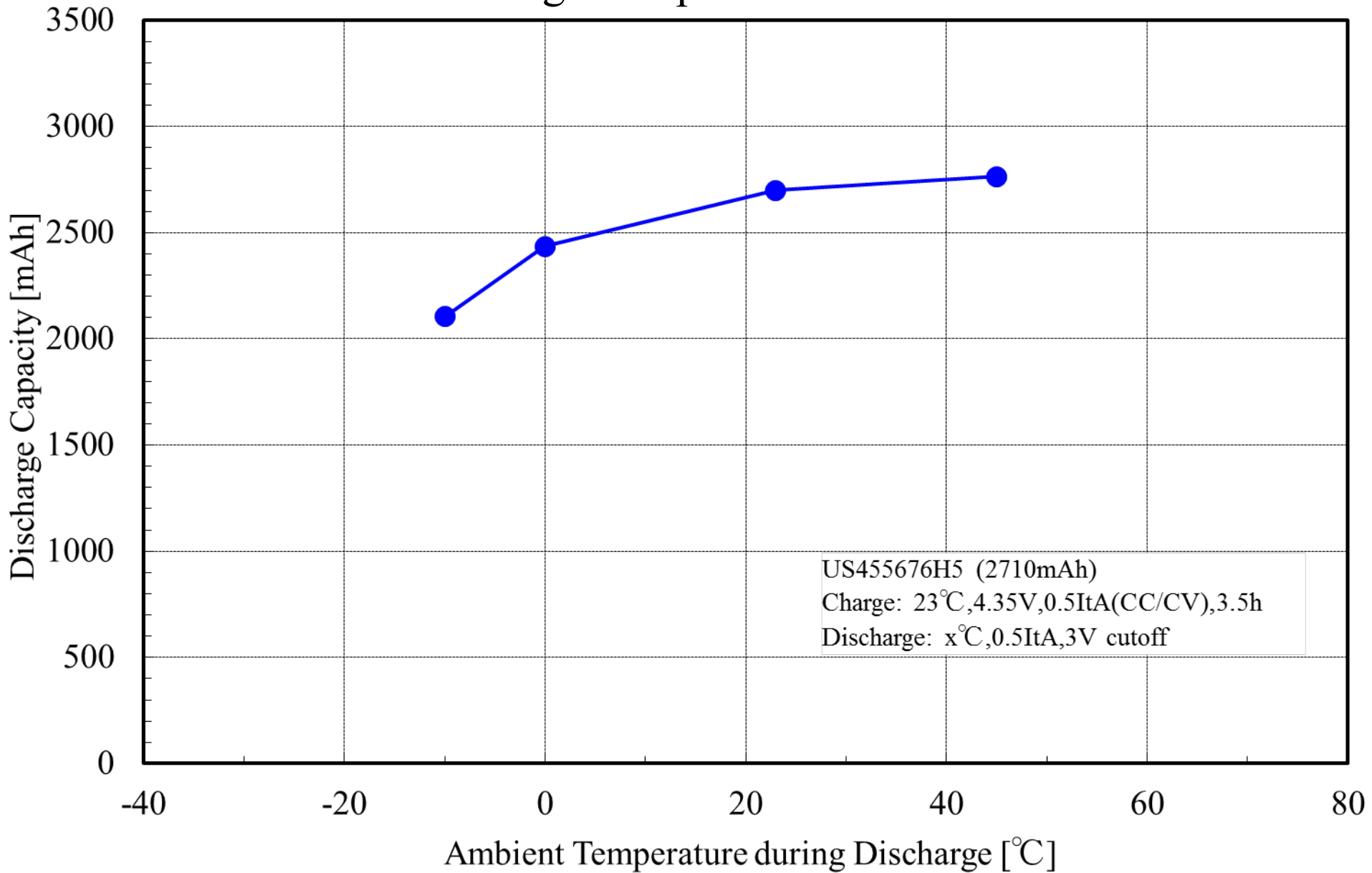
# Drain Capability



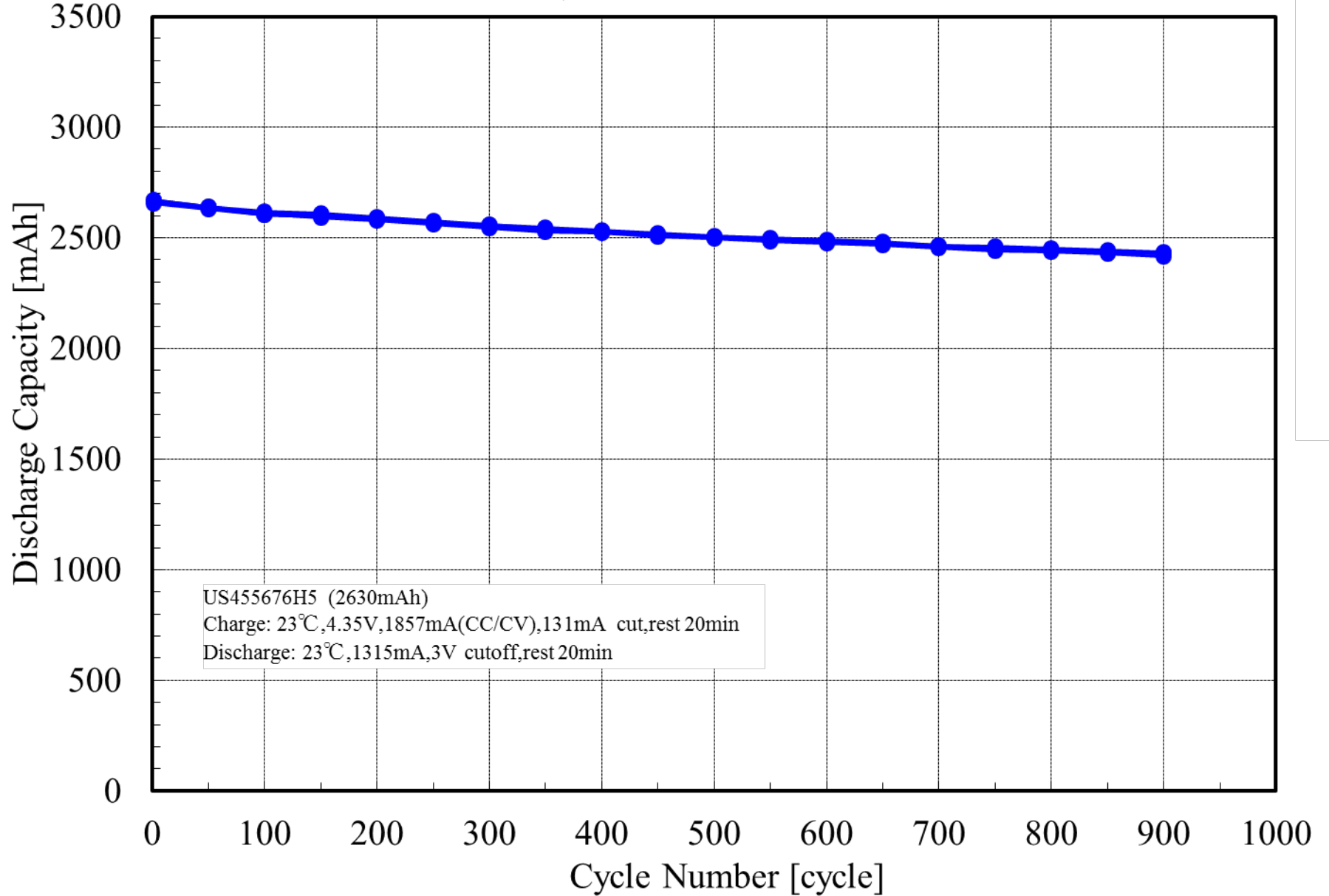
# Discharging Profile



# Discharge Temperature Performance



# Cycle Performance



# Cell Size (US455676H5)

