

## 1. General

### **1.1 Scope**

This specification applies to type  
: US454261A8TS Lithium Ion Polymer Rechargeable Battery

### **1.2 Name and Code**

**1.2.1 Cell Name** : US454261  
**1.2.2 Model Number** : US454261A8TS  
**1.2.3 Code** : 49738830

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

**1.3.1 Cell Shape** : Polymer  
**1.3.2 Size** : Thickness 4.6mm max  
Width 42.0mm max  
Length(without tab) 61.5mm max  
**1.3.3 Weight** : 26.8 g (typical)  
**1.4 Reference test current**  
1.0ItA : 1530mA

### **1.5 Safety Regulation**

acquired UL1642.

## 2. Performance

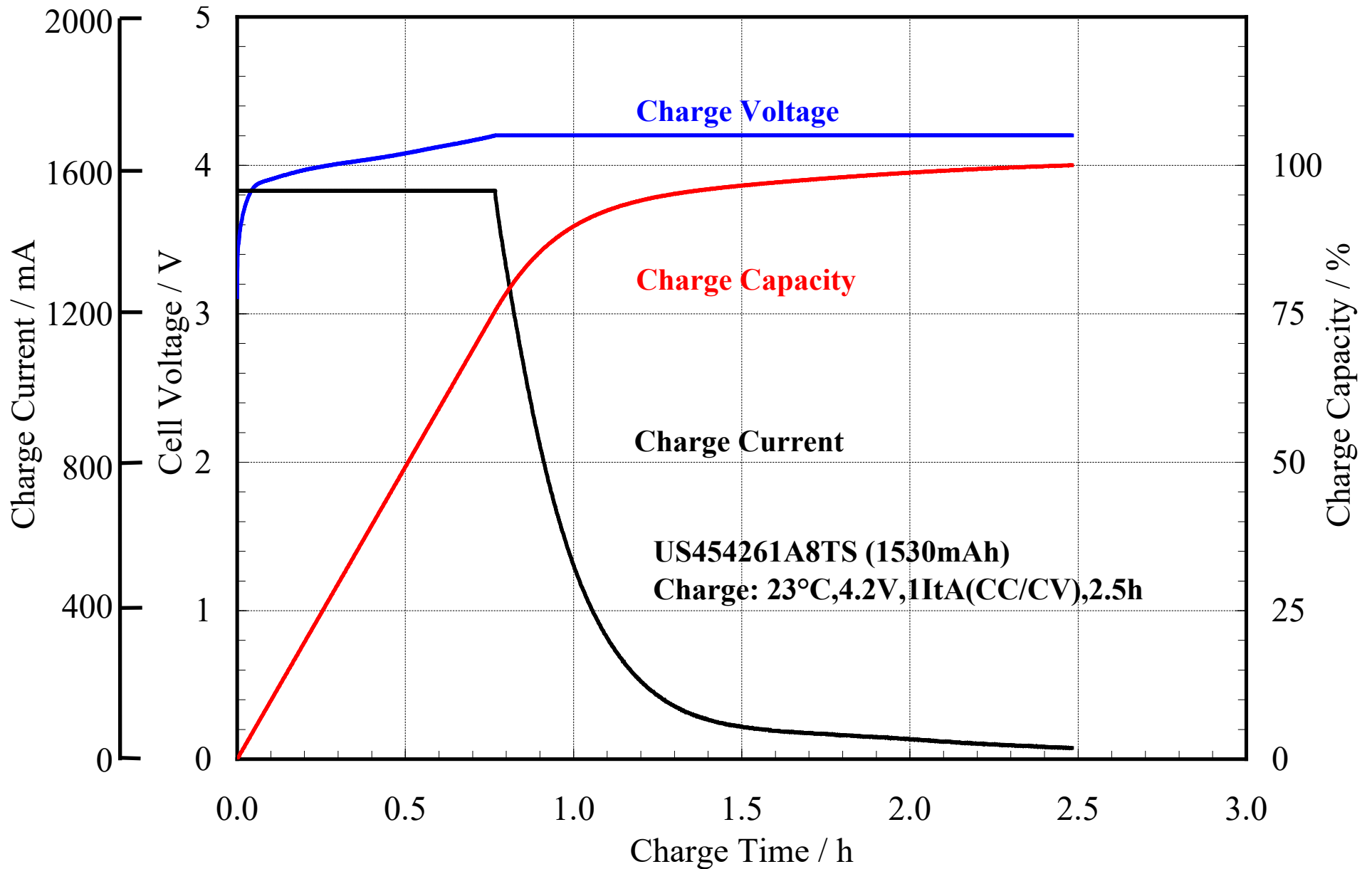
at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	1590mAh 6.03Wh	average capacity 3.70 V (average discharge voltage)
Rated Capacity (0.2ItA discharge)	1530mAh 5.77Wh	minimum capacity
Capacity at 0.5ItA	1499mAh 5.58Wh	average capacity
Capacity at 1.0ItA	1440mAh 5.18Wh	average capacity
Nominal Voltage	3.70V	
Internal Impedance	35mΩ	measured by AC1kHz
Cycle Performance	80% of Initial min. capacity	0.5ItA discharge rate at 500 cycles

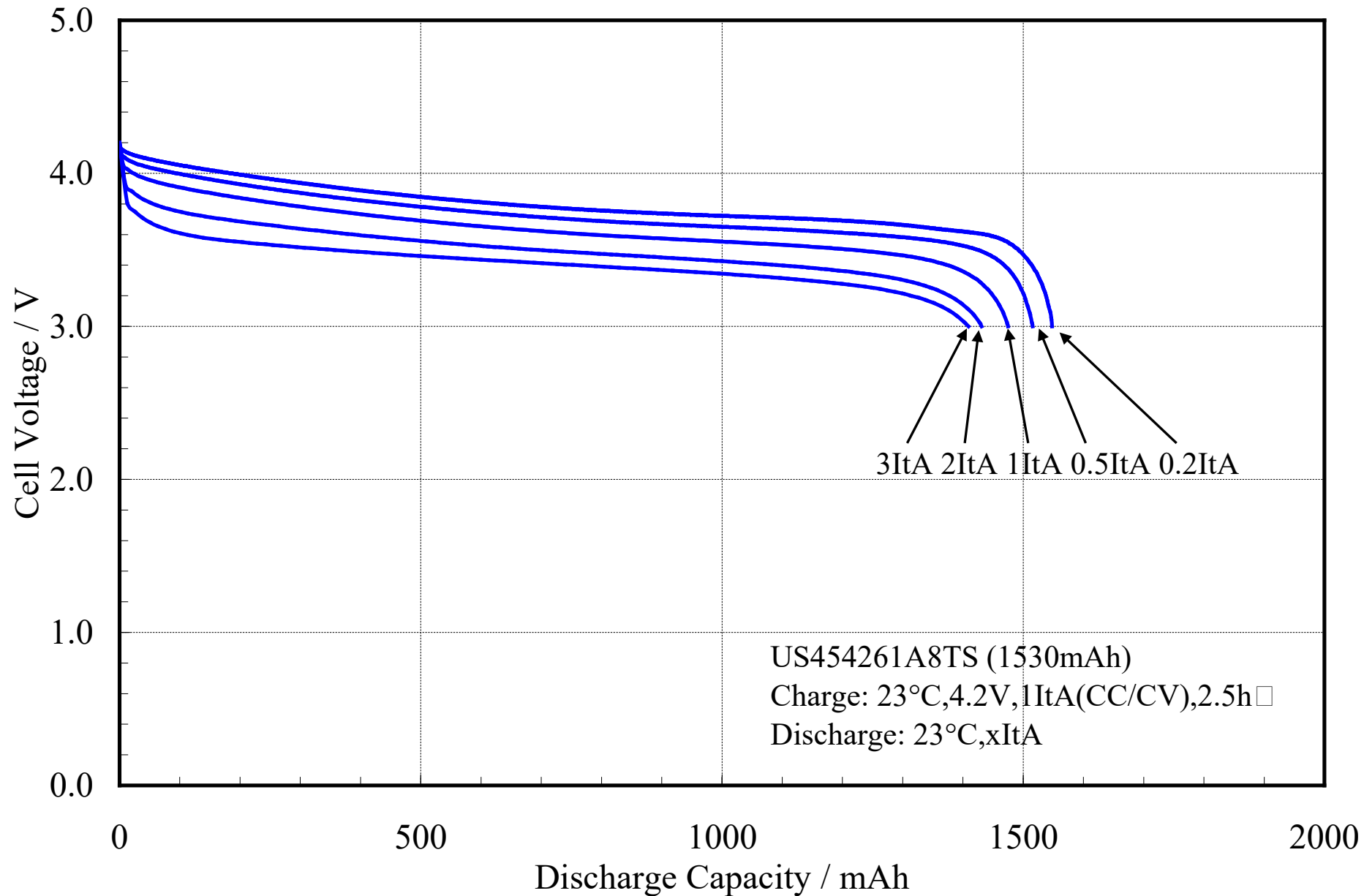
### \* Standard Charge Condition

Charge Method : constant current constant voltage  
Charge Up Voltage : 4.2 V±0.05V  
Charge Current : 1.53A  
Charge Time : 2.5hours charge  
Ambiance Temperature : 23°C

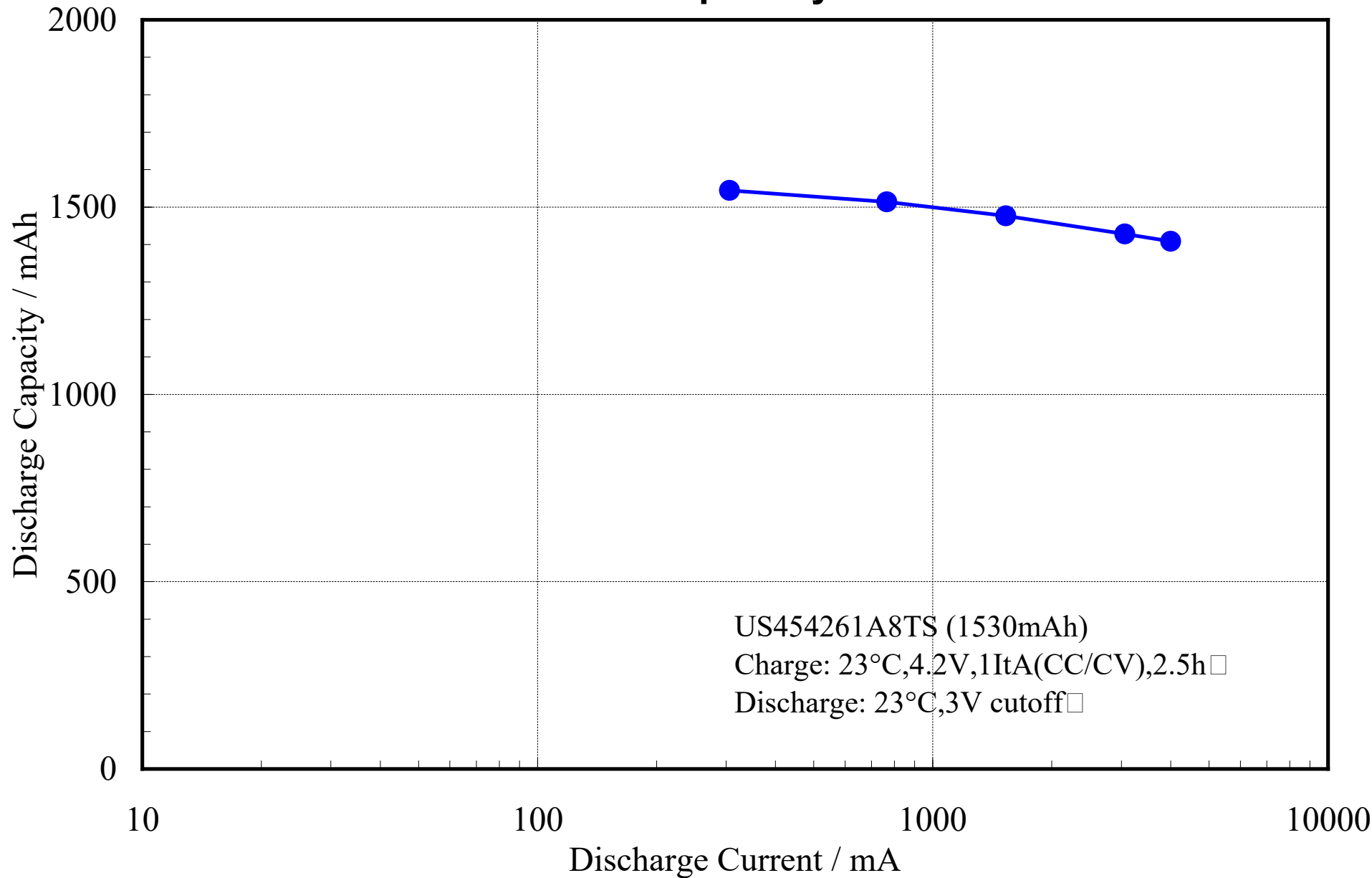
# Charging Profile



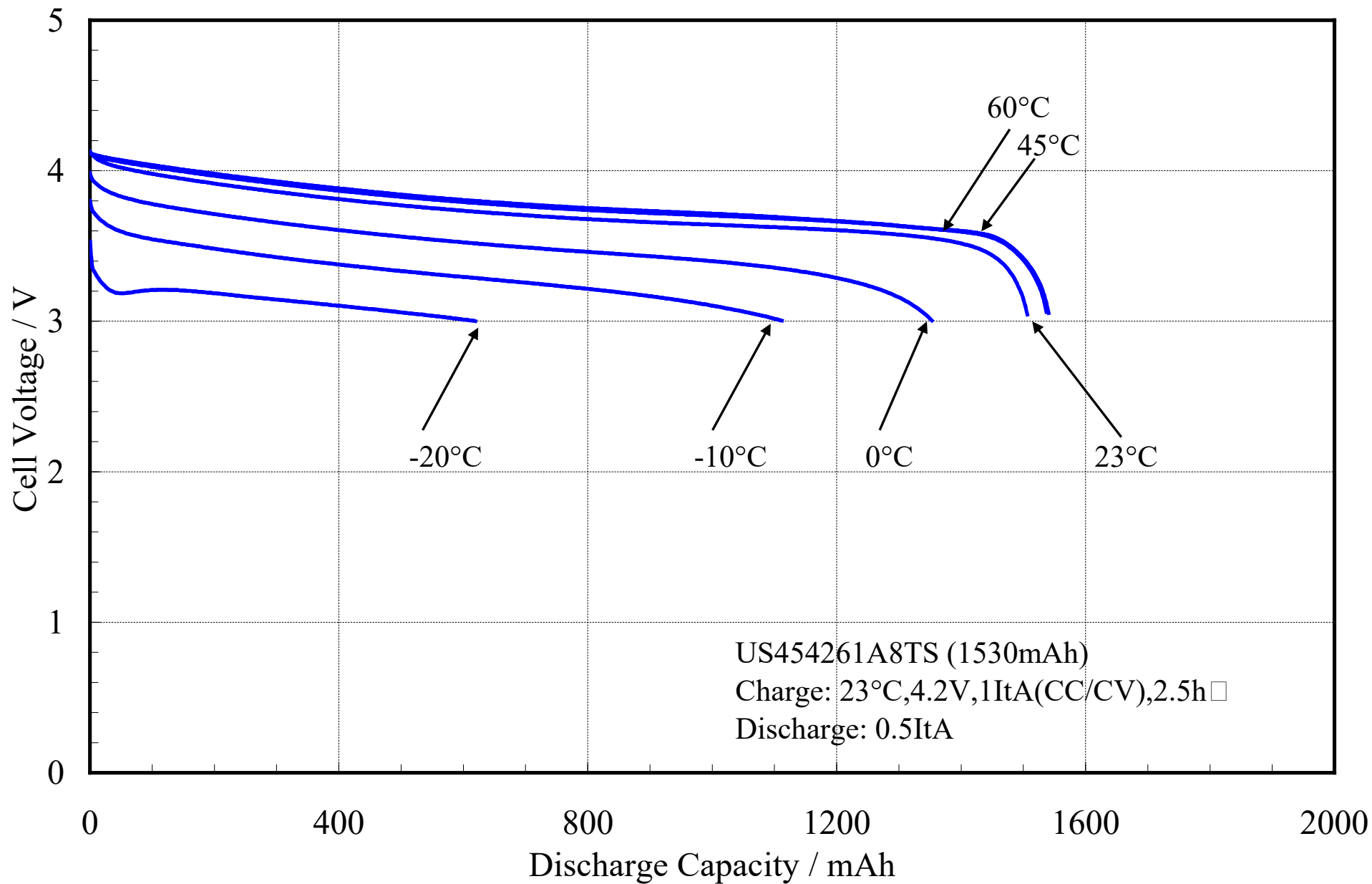
# Discharging Profile



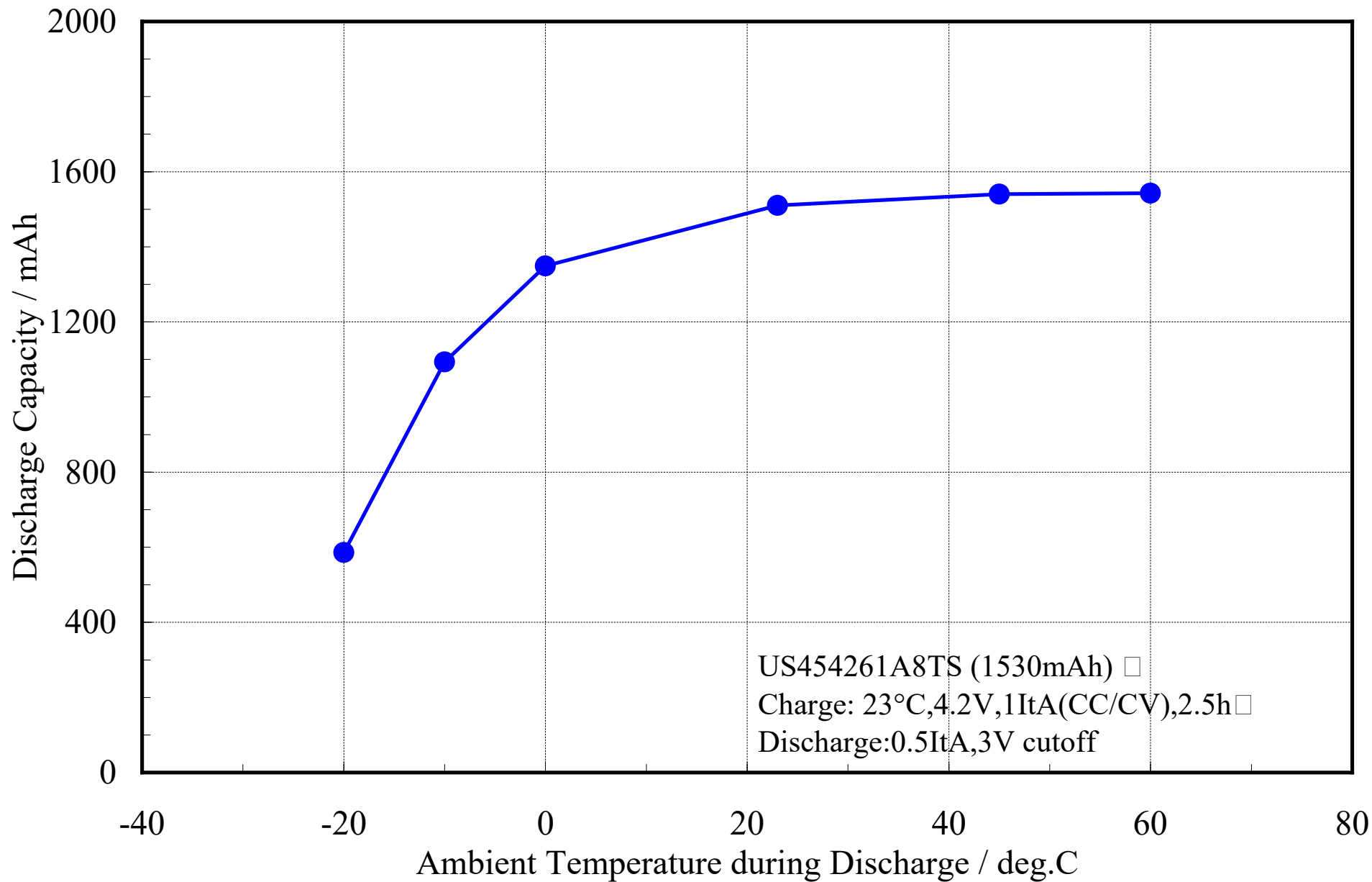
# Drain Capability



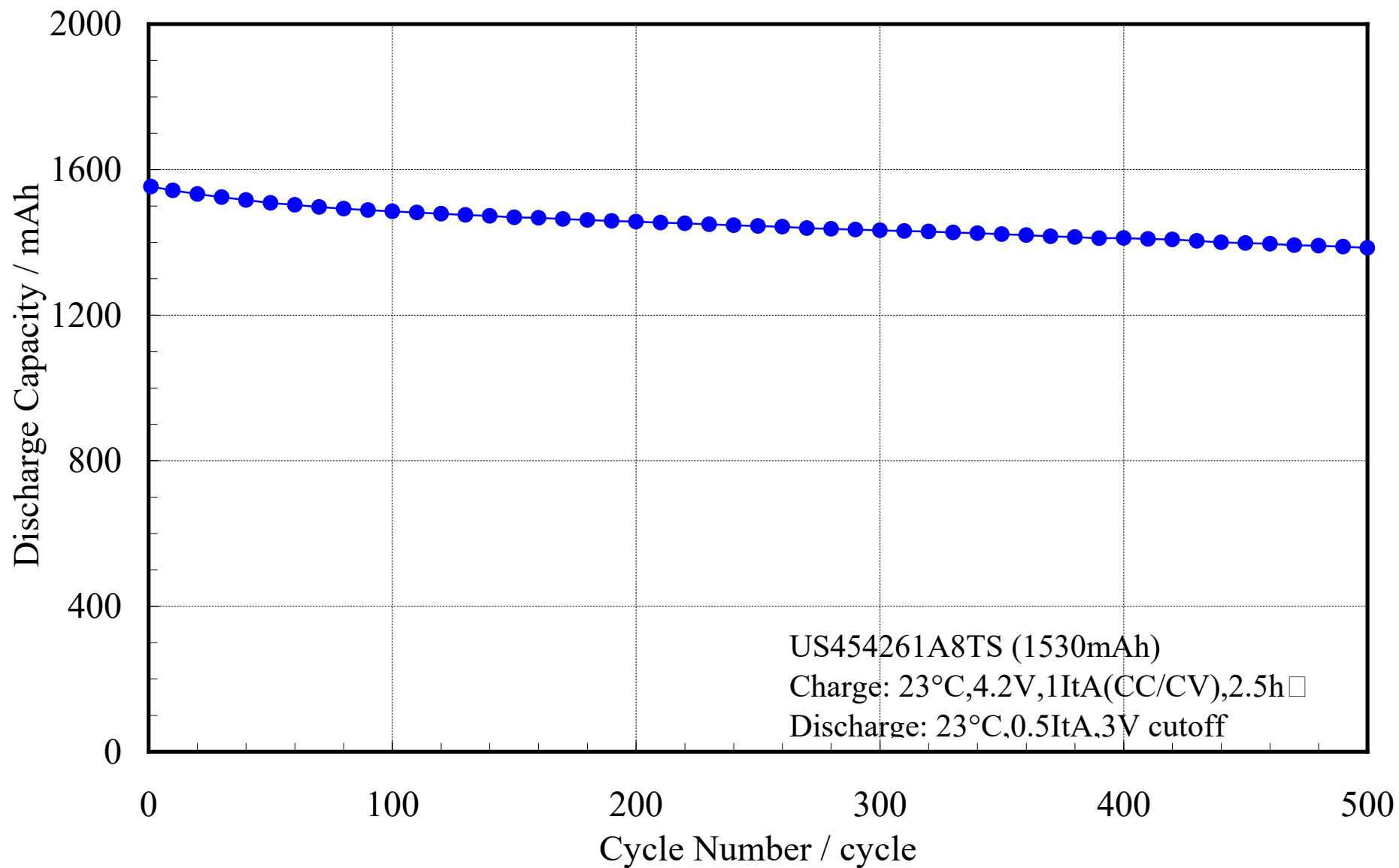
# Discharging Profile



# Discharge Temperature Performance



# Cycle Performance



# Cell Size (US454261A8TS)

