

# **Li-ion Polymer Rechargeable Battery Technical Information**

**Revision 1.0  
2012.8.22**

<b>Cell Name</b>	<b>US496764</b>
<b>Cell Type</b>	<b>Polymer</b>
<b>Model Number</b>	<b>US496764E1S</b>
<b>Sony Code</b>	<b>49921660</b>

**Sony Energy Devices Corporation  
Device Solutions Business Group / Sony Corporation**

## 1. General

### **1.1 Scope**

This specification applies to type  
: US496764 Lithium Ion Polymer Rechargeable Battery

### **1.2 Name and Code**

**1.2.1 Cell Name** : US496764

**1.2.2 Model Number** : US496764E1S

**1.2.3 Code** : 49921660

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

**1.3.1 Cell Shape** : Polymer

**1.3.2 Size** : Thickness 4.85mm max  
Width 66.6mm max  
Length(without tab) 63.5mm max

**1.3.3 Weight** : 43.0g (typical)

### **1.4 Reference test current**

1.0ItA : 2420mA

### **1.5 Safety Regulation**

Sony have acquire UL1642.

## 2. Performance

at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	2515mAh 9.18Wh	average capacity 3.65 V (average discharge voltage)
Rated Capacity (0.2ItA discharge)	2420mAh 8.83Wh	minimum capacity
Capacity at 0.5ItA	2457mAh 8.78Wh	average capacity
Capacity at 1.0ItA	2459mAh 8.66Wh	average capacity
Nominal Voltage	3.65V	
Internal Impedance	41mΩ	measured by AC1kHz
Cycle Performance	80% of Initial capacity at 500 cycles	0.5ItA discharge rate

### \* Standard Charge Condition

Charge Method : constant current / constant voltage

Charge Up Voltage : 4.2 V ± 0.05V

Charge Current : 1.694A

Cut-off Time : 3.5hours charge

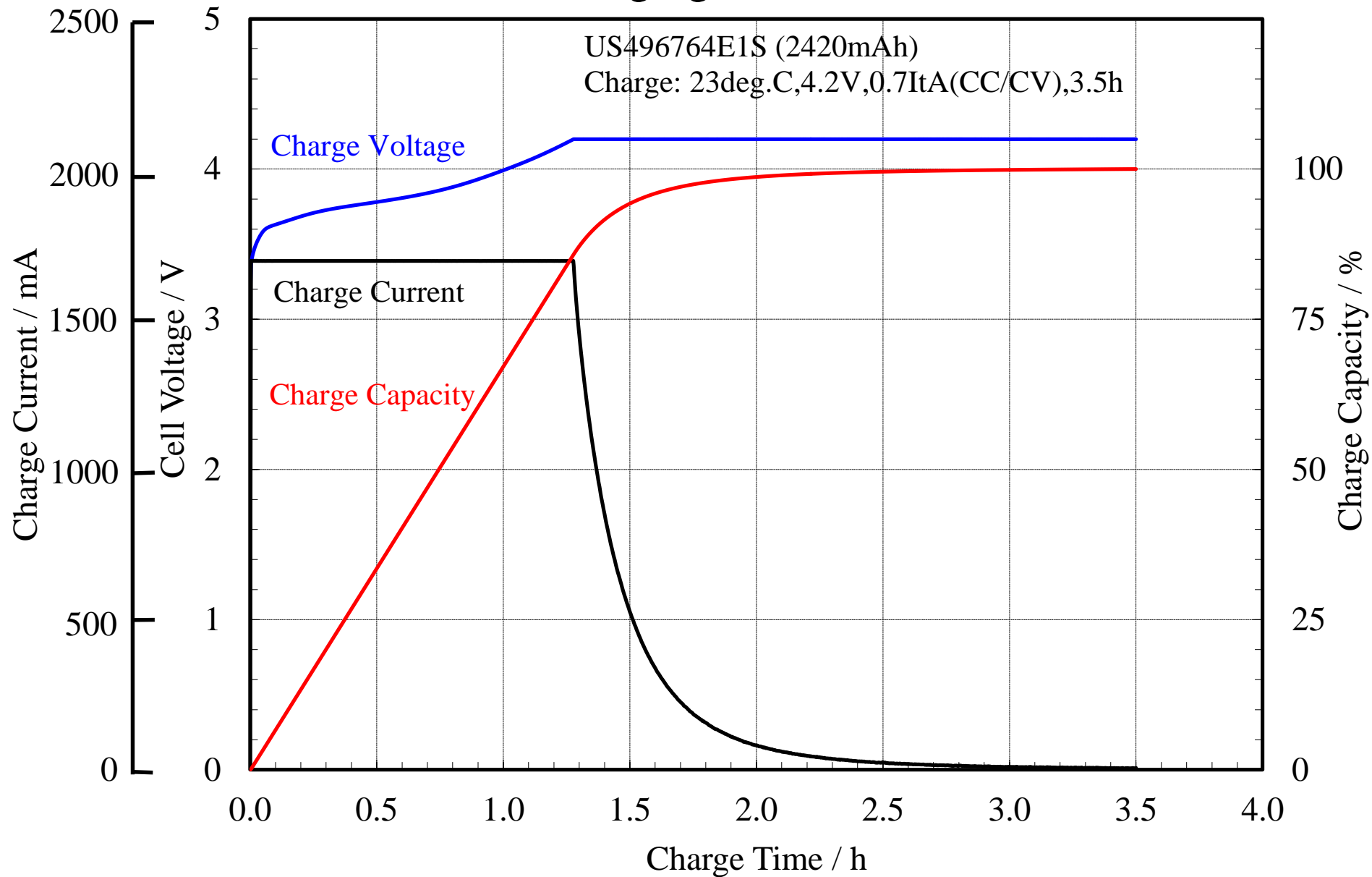
Ambiance Temperature : 23°C

\* Maximum Charge Current : 3.63A

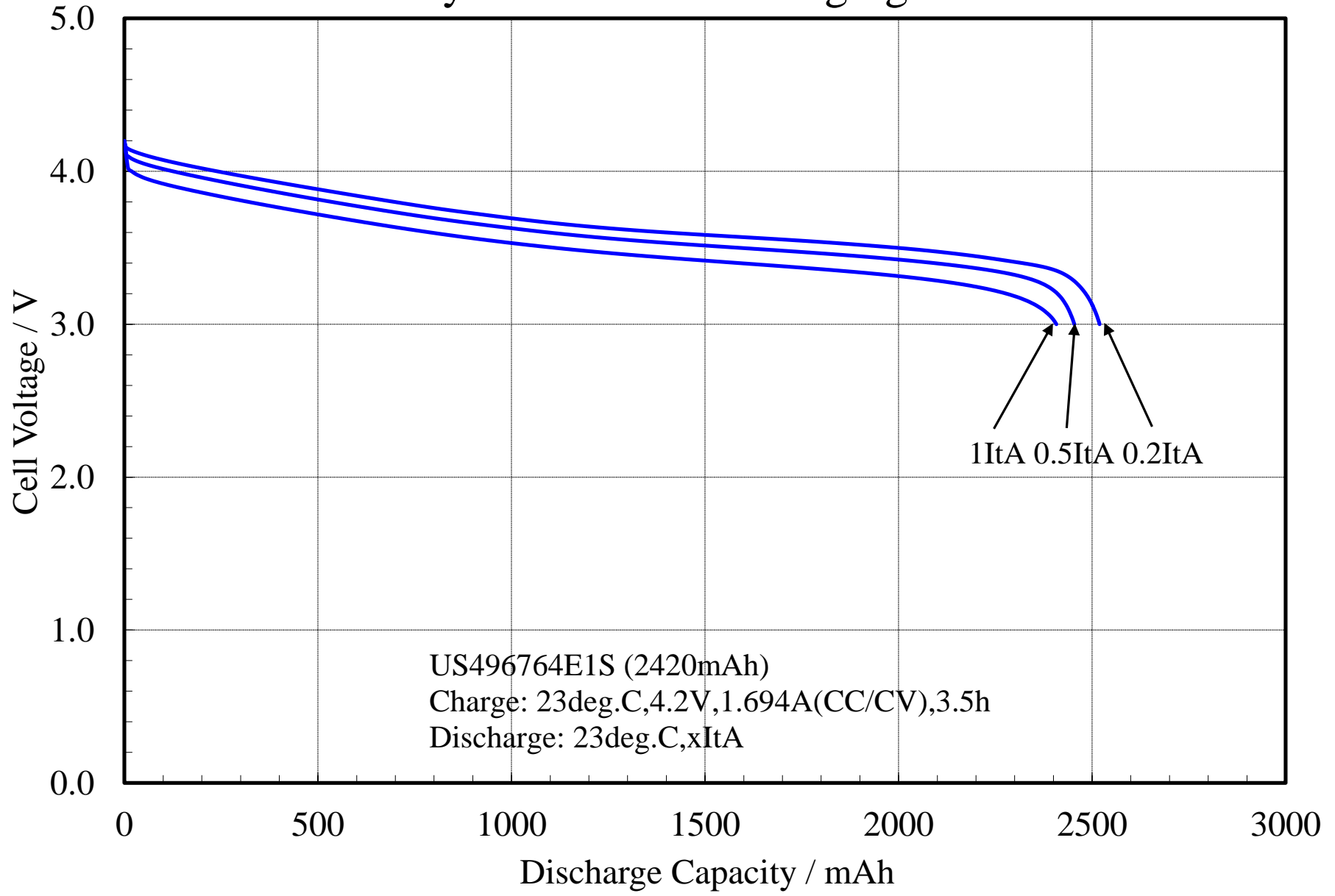
# Charging Profile

US496764E1S (2420mAh)

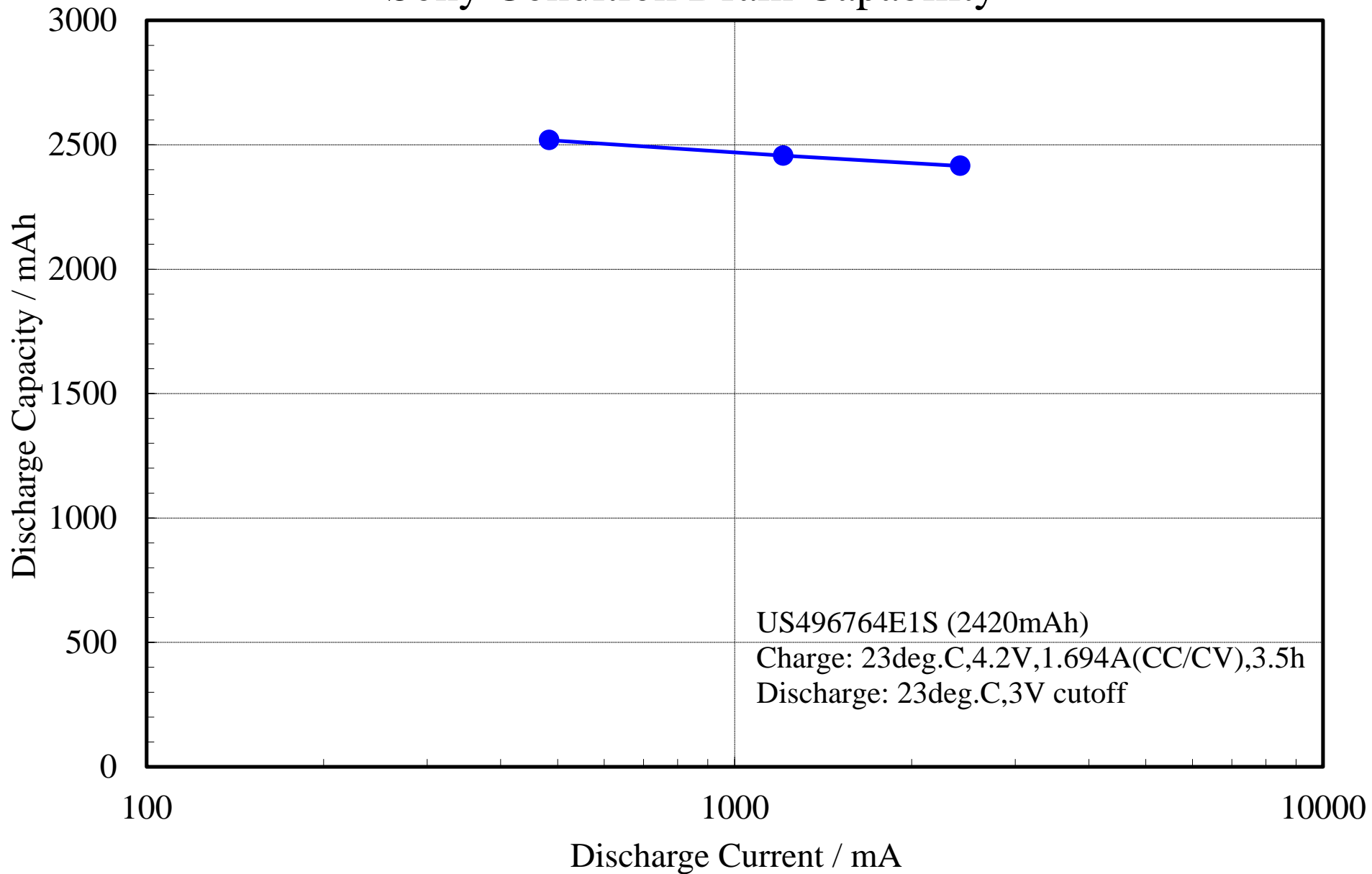
Charge: 23deg.C,4.2V,0.7ItA(CC/CV),3.5h



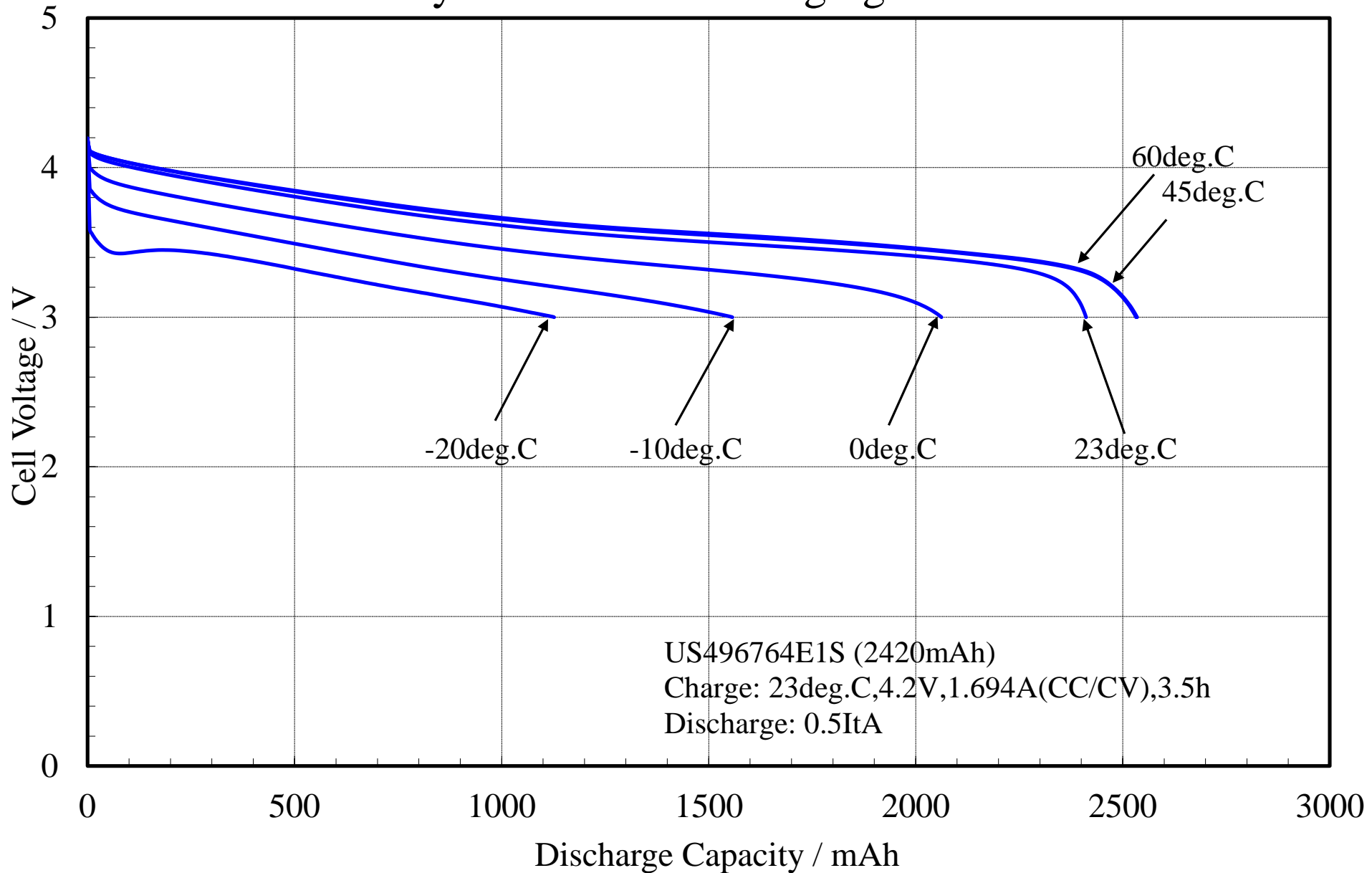
# Sony Condition Discharging Profile



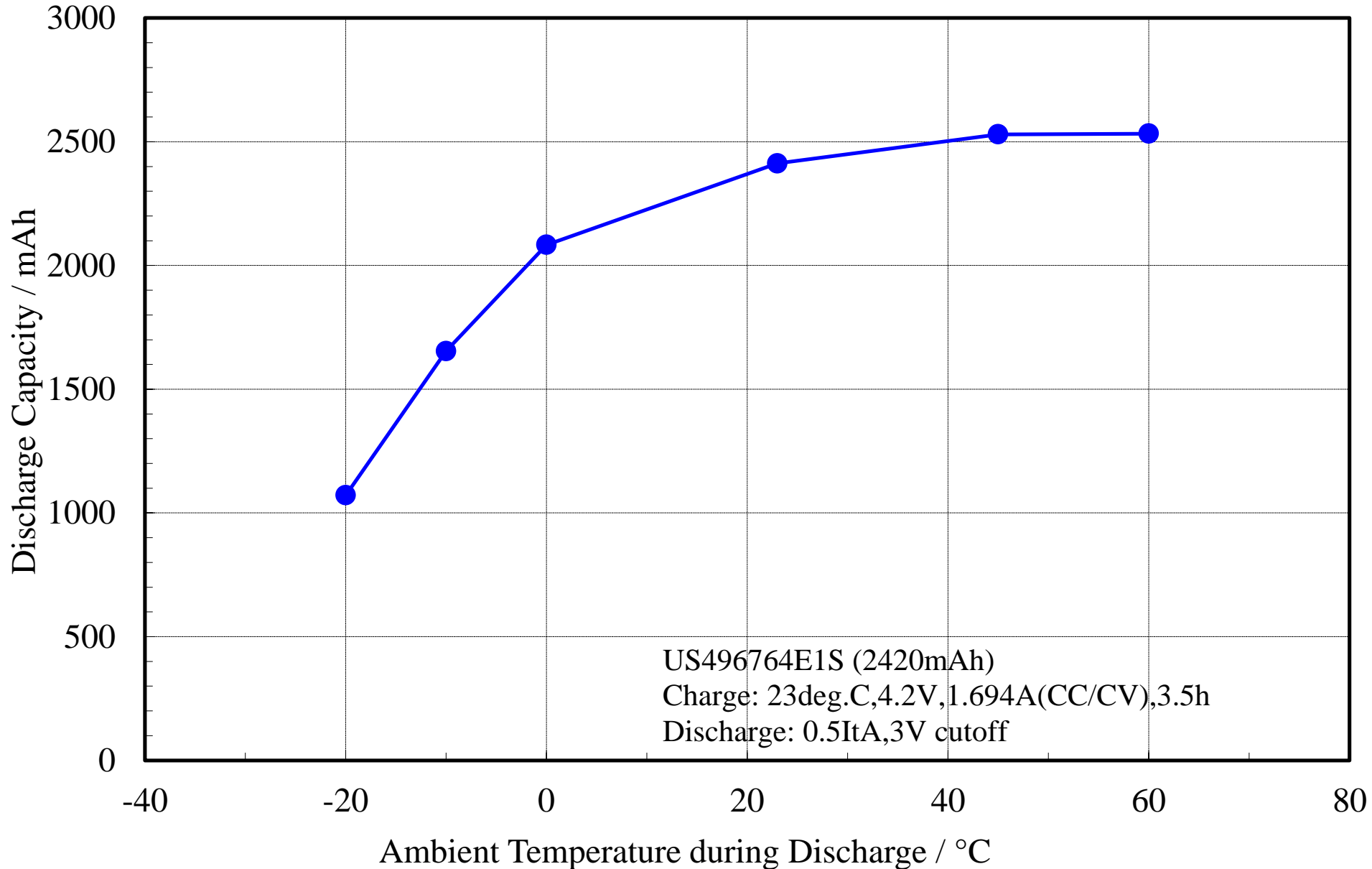
# Sony Condition Drain Capability



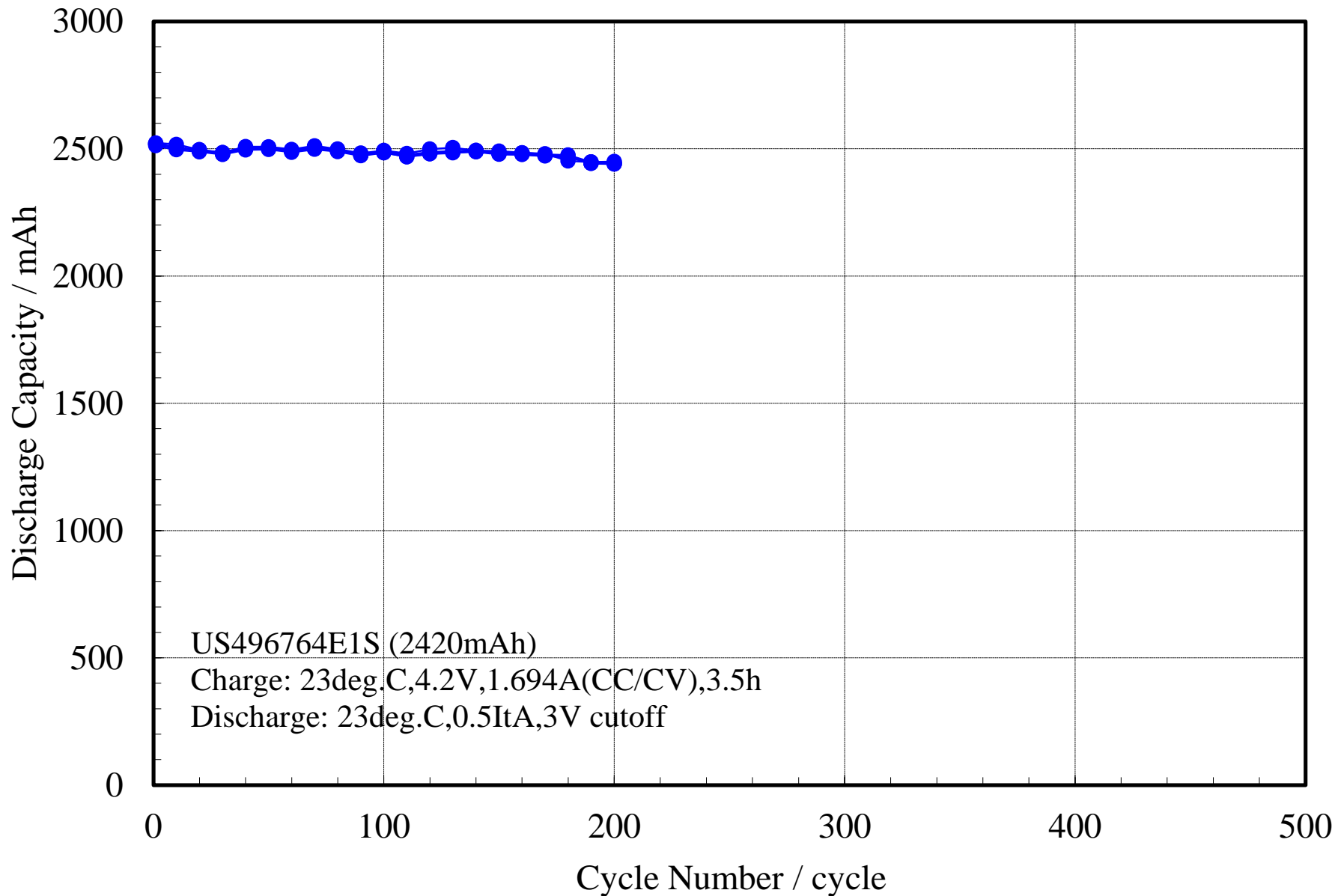
# Sony Condition Discharging Profile



# Sony Condition Discharge Temperature Performance



# Sony Condition Cycle Performance





# Cell Size (US496764E1S)

