

1. General

1.1 Scope

This specification applies to type
: US445977H5 Lithium Ion Polymer Rechargeable Battery

1.2 Name and Code

1.2.1 Cell Name : US445977H5
1.2.2 Model Number : US445977H5
1.2.3 Code : 49938680

1.3 Cell Shape and Weight

1.3.1 Cell Shape : Polymer
1.3.2 Size : Thickness 4.31 mm max
Width 58.3 mm max
Length(without Tab) 76.8 mm max
1.3.3 Weight : 46.9 g (typical)

1.4 Reference test current

1.0 ItA: 3000 mA

1.5 Safety Regulation

Murata acquired UL1642

2. Performance

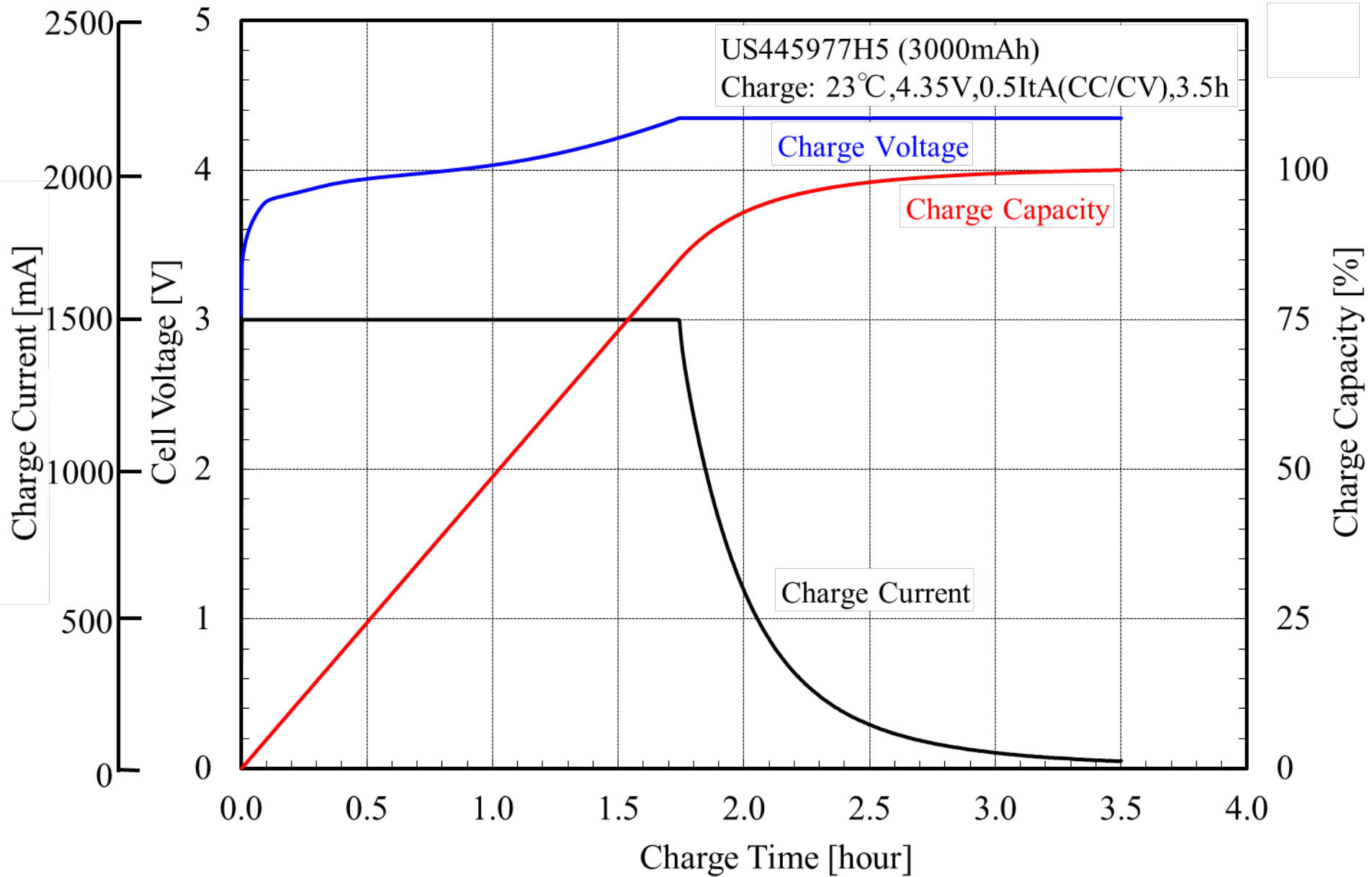
at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	3090mAh	average capacity 3.8 V (average discharge voltage)
	11.74 Wh	
Rated Capacity (0.2ItA discharge)	3000mAh	minimum capacity
	11.4 Wh	
Capacity at 0.5ItA	2940mAh	average capacity
	11.1 Wh	
Capacity at 1.0ItA	2824mAh	average capacity
	10.43 Wh	
Nominal Voltage	3.8 V	
Internal Impedance	35 mΩ	measured by AC1 kHz
Cycle Performance	80% of Initial capacity at 400 cycles	0.5 ItA discharge rate

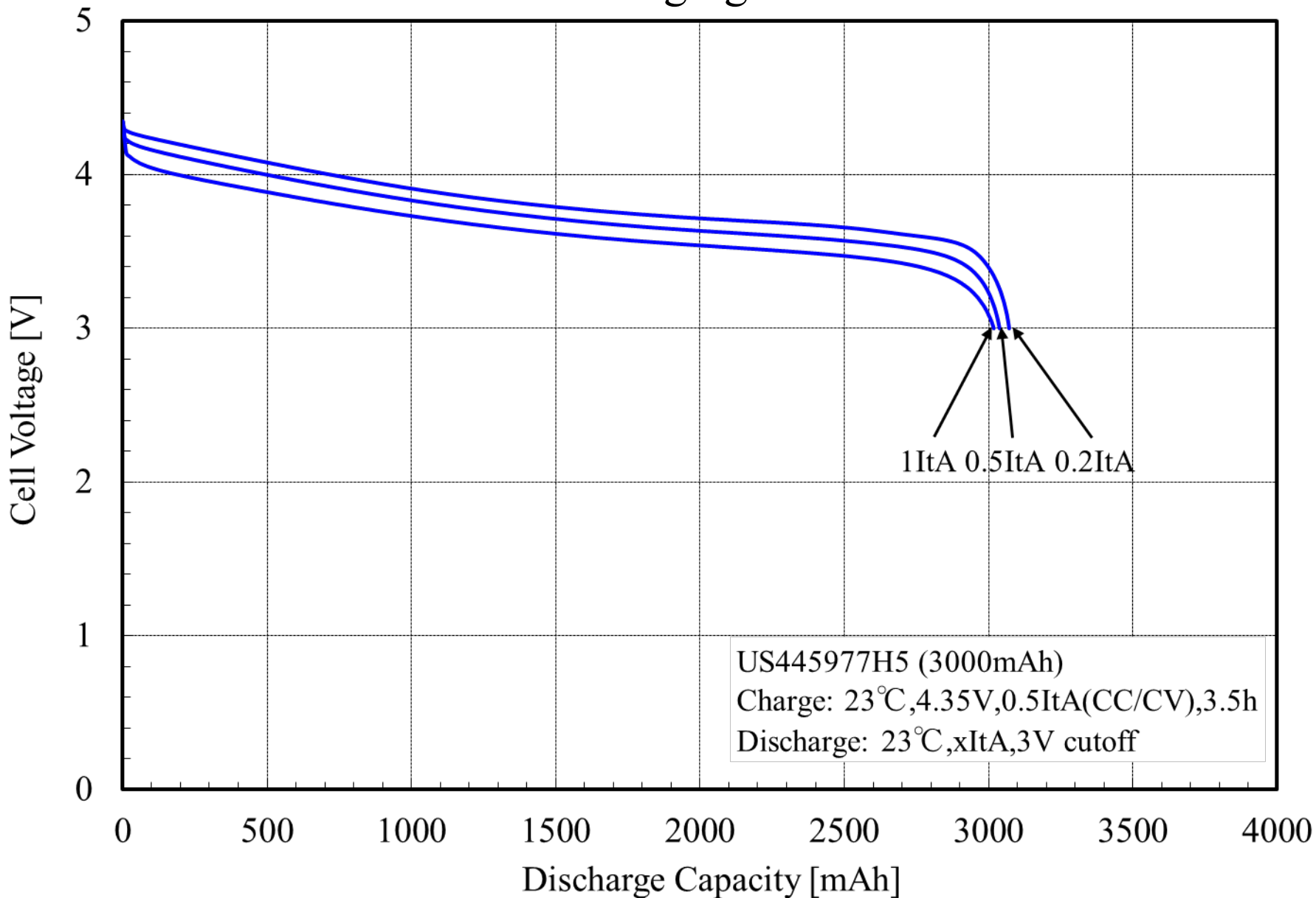
*Standard Charge Condition

Charge Method : constant current / constant voltage
Charge Up Voltage : 4.35 ± 0.05 V
Charge Current : 1.5 A
Charge Time : 3.5 h
Ambiance Temperature : 23 °C

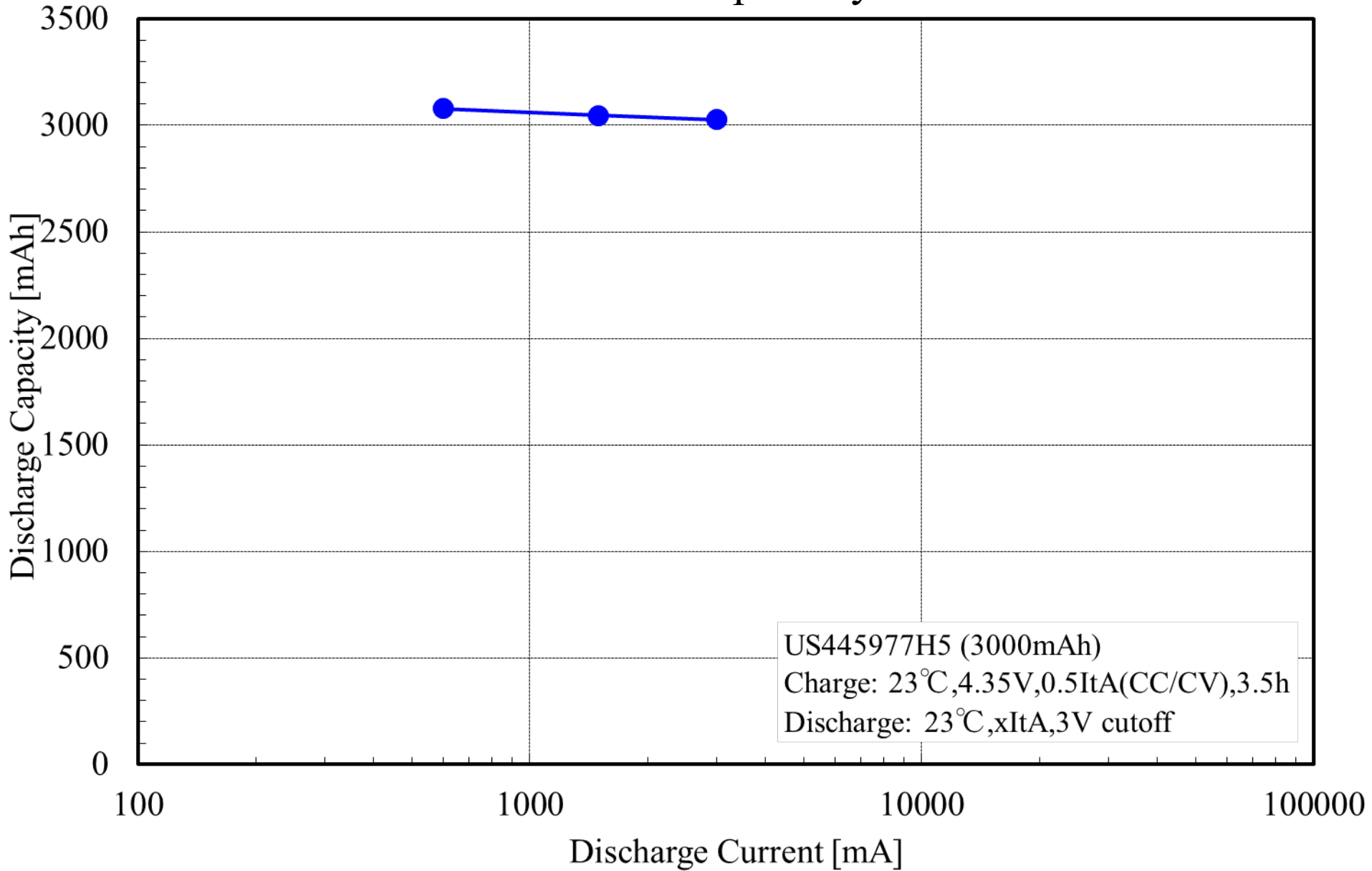
Charging Profile



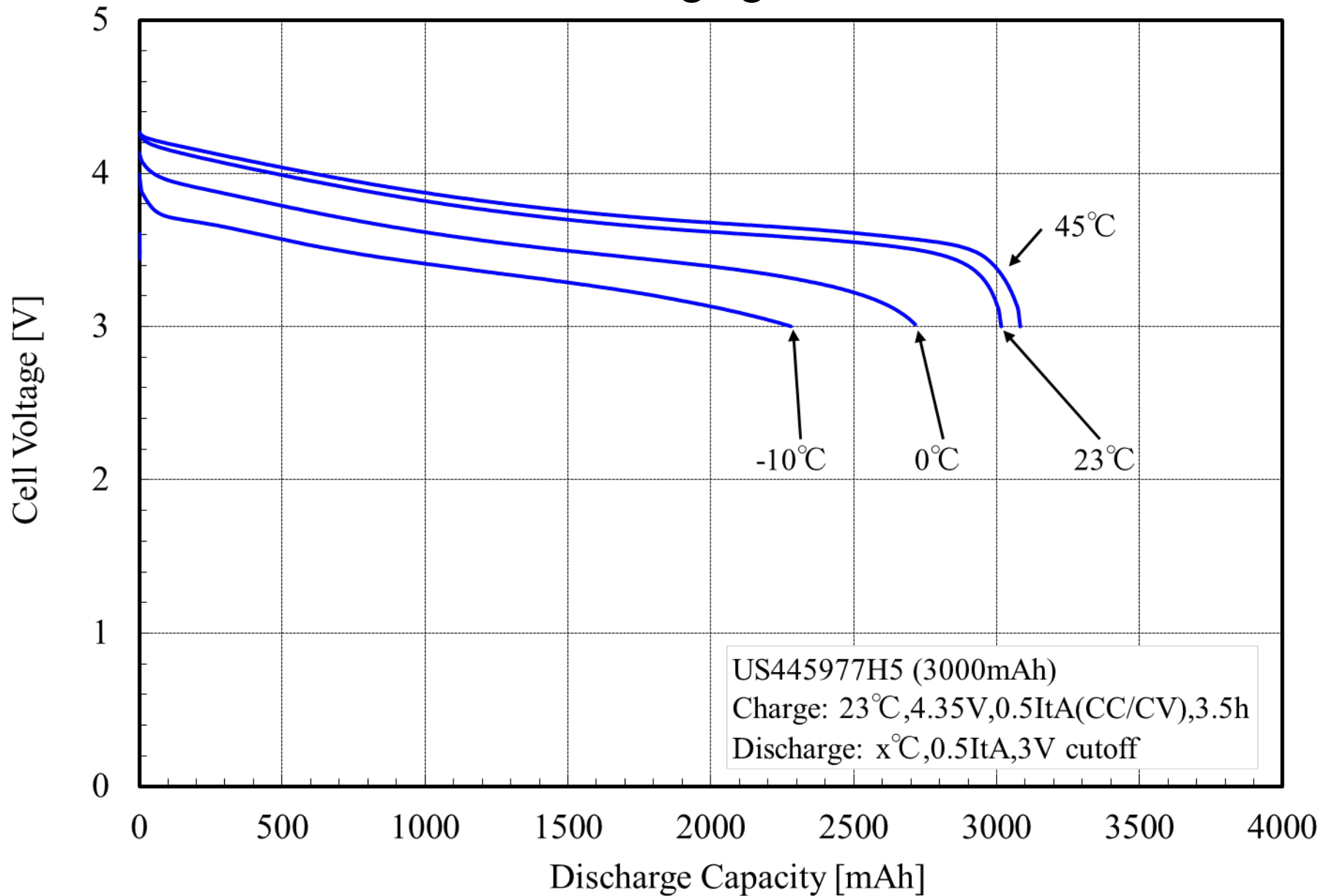
Discharging Profile



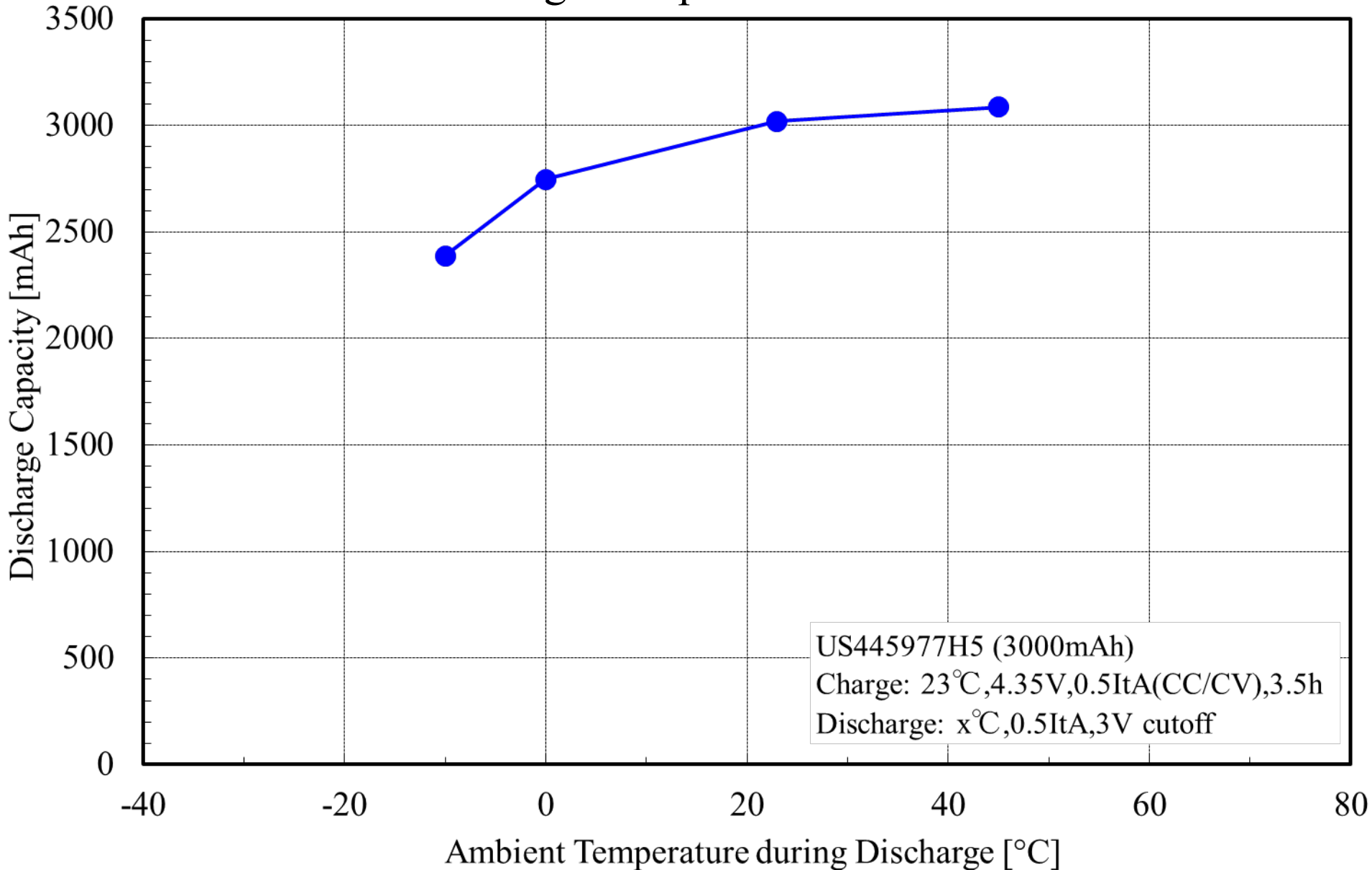
Drain Capability



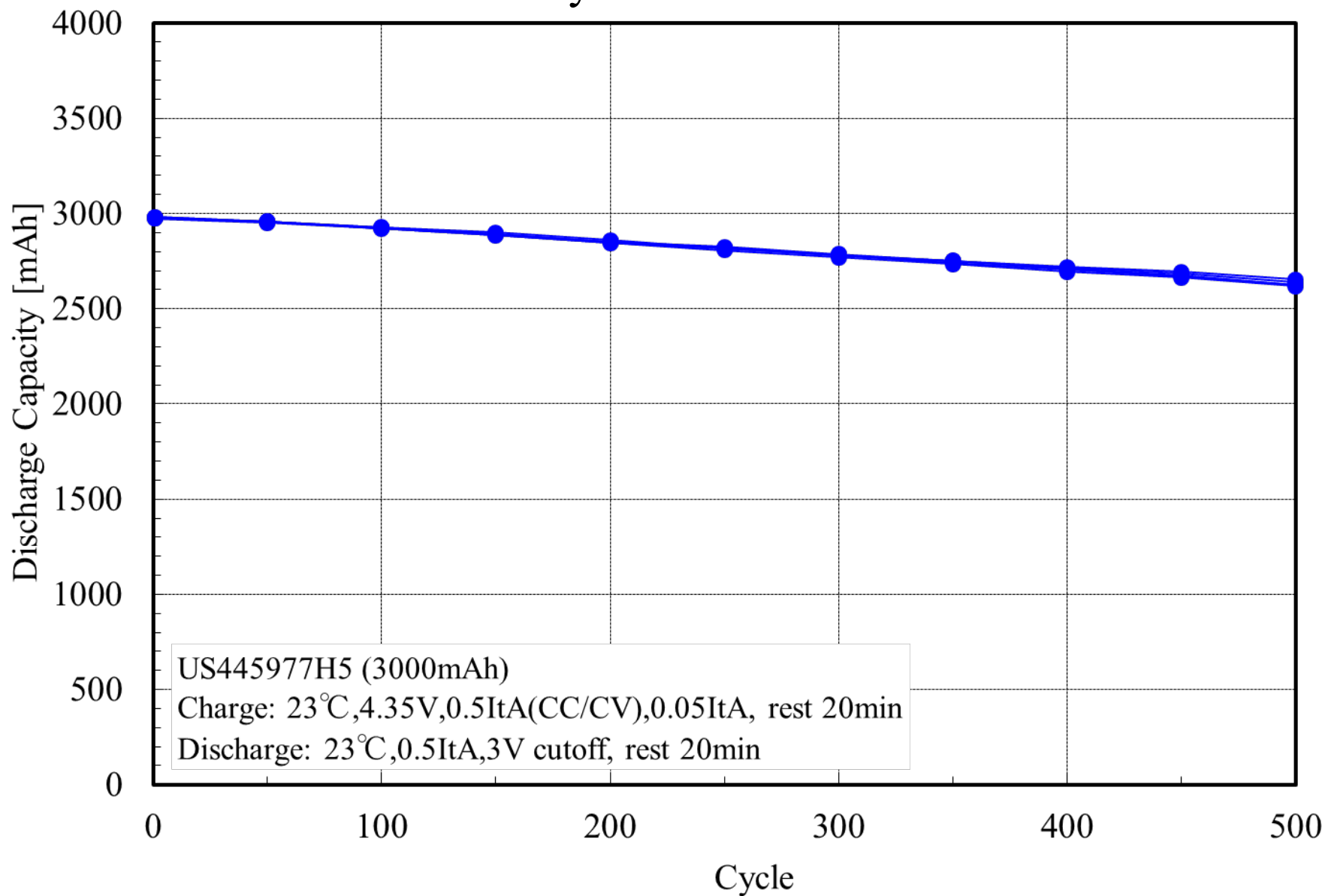
Discharging Profile



Discharge Temperature Performance



Cycle Performance



Cell Size (US445977H5)

