

Lithium Ion Rechargeable Battery Technical Information

Revision 1.1
12th September 2014

Model Number	US18650FT
Cell Type	Cylindrical
Cell Number	US18650FTC1
Sony Code	49910781

Sony Energy Devices Corporation
Device Solutions Business Group / Sony
Corporation

1. General

1.1 Name and Code

1.1.1 Cell Name : US18650FT
1.1.2 Model Number : US18650FTC1
1.1.3 Sony Code : 49910781

1.2 Cell Shape and Weight

1.2.1 Cell Shape : Cylindrical
1.2.2 Size (with plastic tube) : Diameter 18.35mm max
Length 65.10mm max
1.2.3 Weight : 38.8g Average

1.3 Safety Regulation

: Sony acquired UL1642.
: Sony acquired IEC 62133 1st edition
: Sony acquired IEC 62133 2nd edition
: Sony acquired Taiwan Commodity
Inspection Act(CNS 15364)

2. Performance

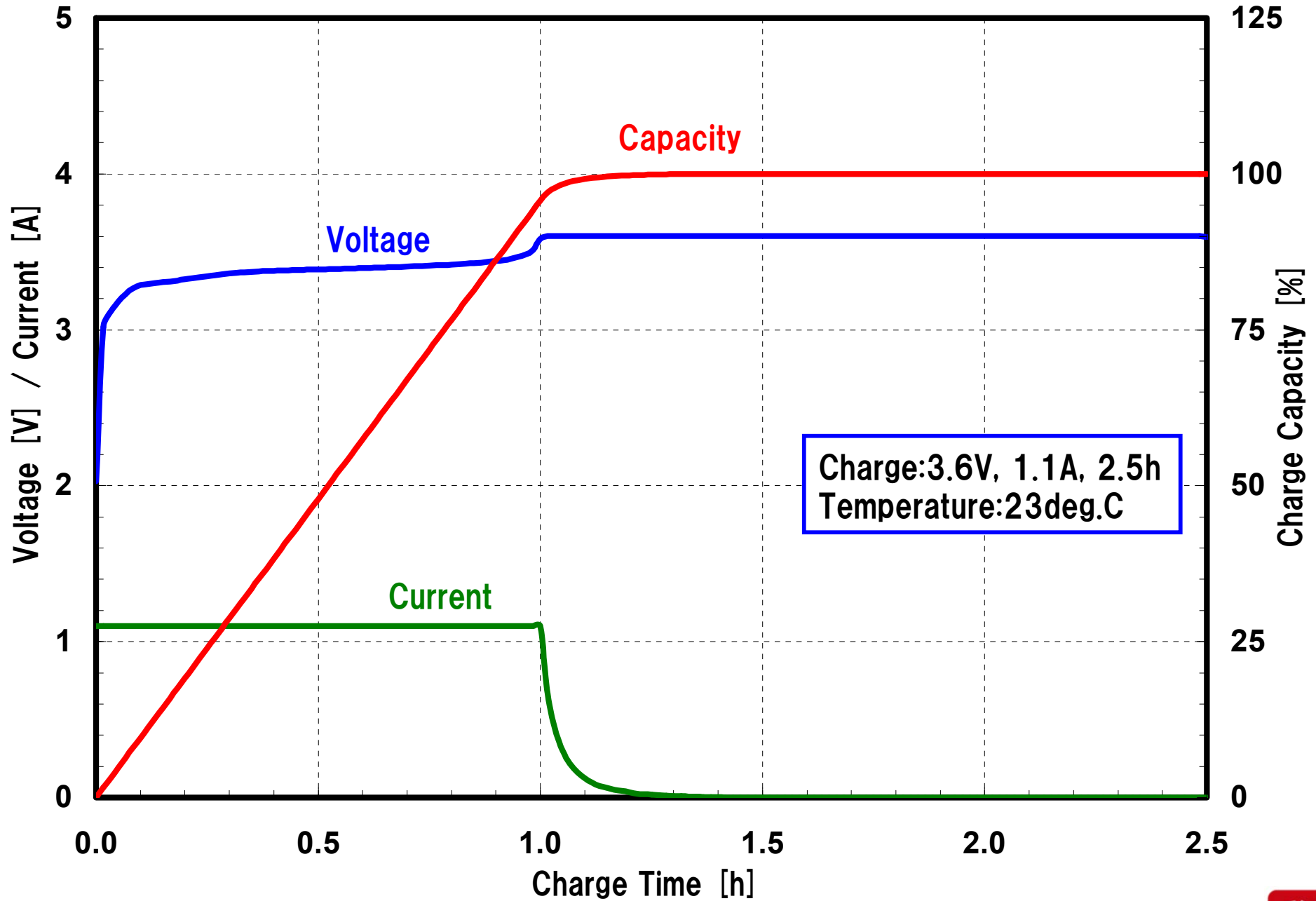
at room temperature, 2.0V cut off

Nominal Capacity (0.2ItA discharge)	1100 mAh 3.52Wh	average capacity 3.20V (average discharge voltage)
Rated Capacity (0.2ItA discharge)	1050mAh 3.36Wh	minimum capacity
Capacity at 1ItA	1080mAh 3.36Wh	average capacity
Capacity at 10A	1070mAh 3.03Wh	average capacity
Nominal Voltage	3.2V	
Internal Impedance	17mΩ Typ.	measured by AC1kHz
Cycle Performance	60 % Min. of Initial capacity at 1000 cycles	10A discharge

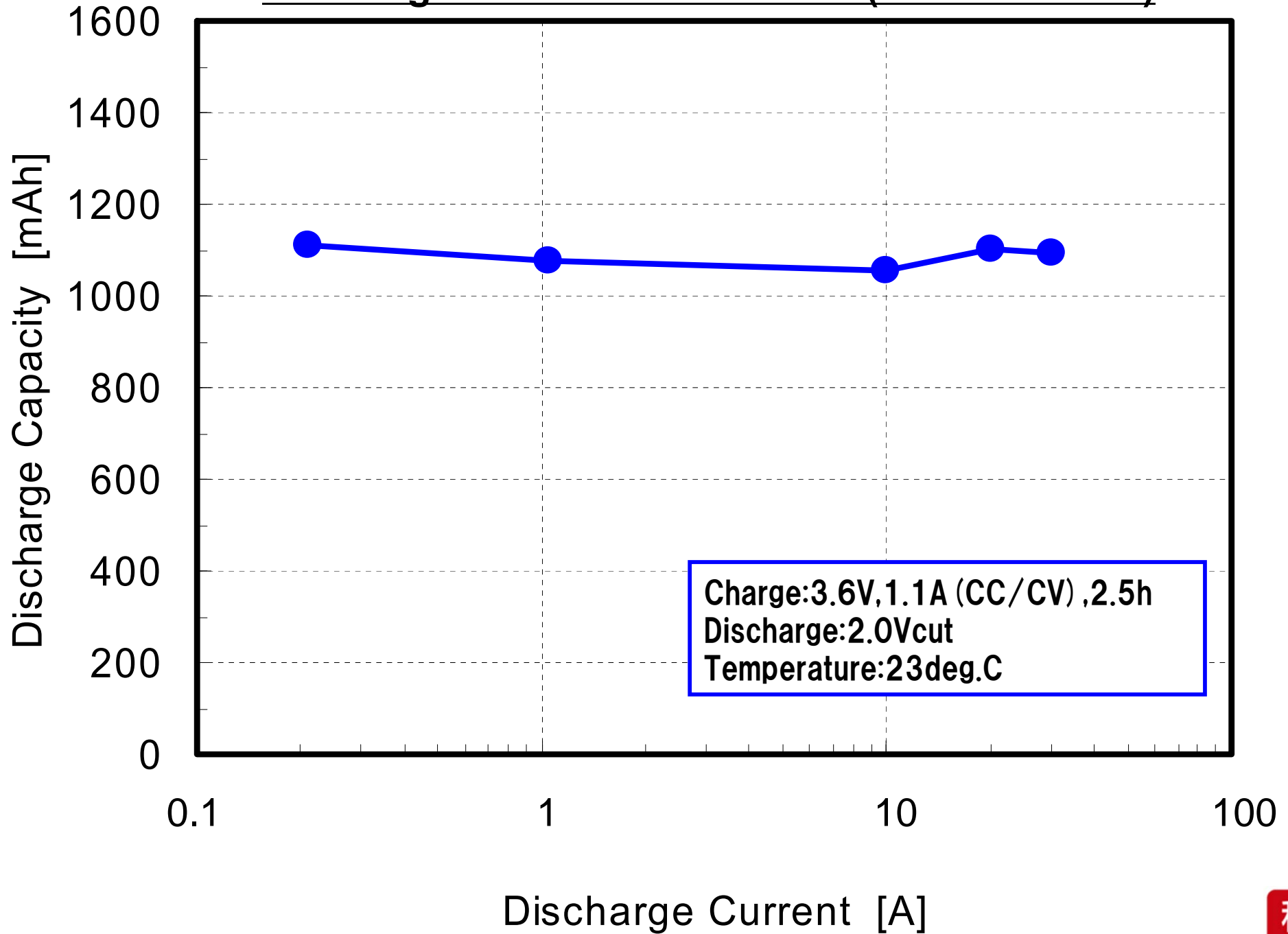
* Standard Charge Condition

Charge Method : constant current constant voltage
Charge Up Voltage : 3.6± 0.005V
Charge Current : 1.05A
Charge Time : 2.5h
Ambiance Temperature : 23°C

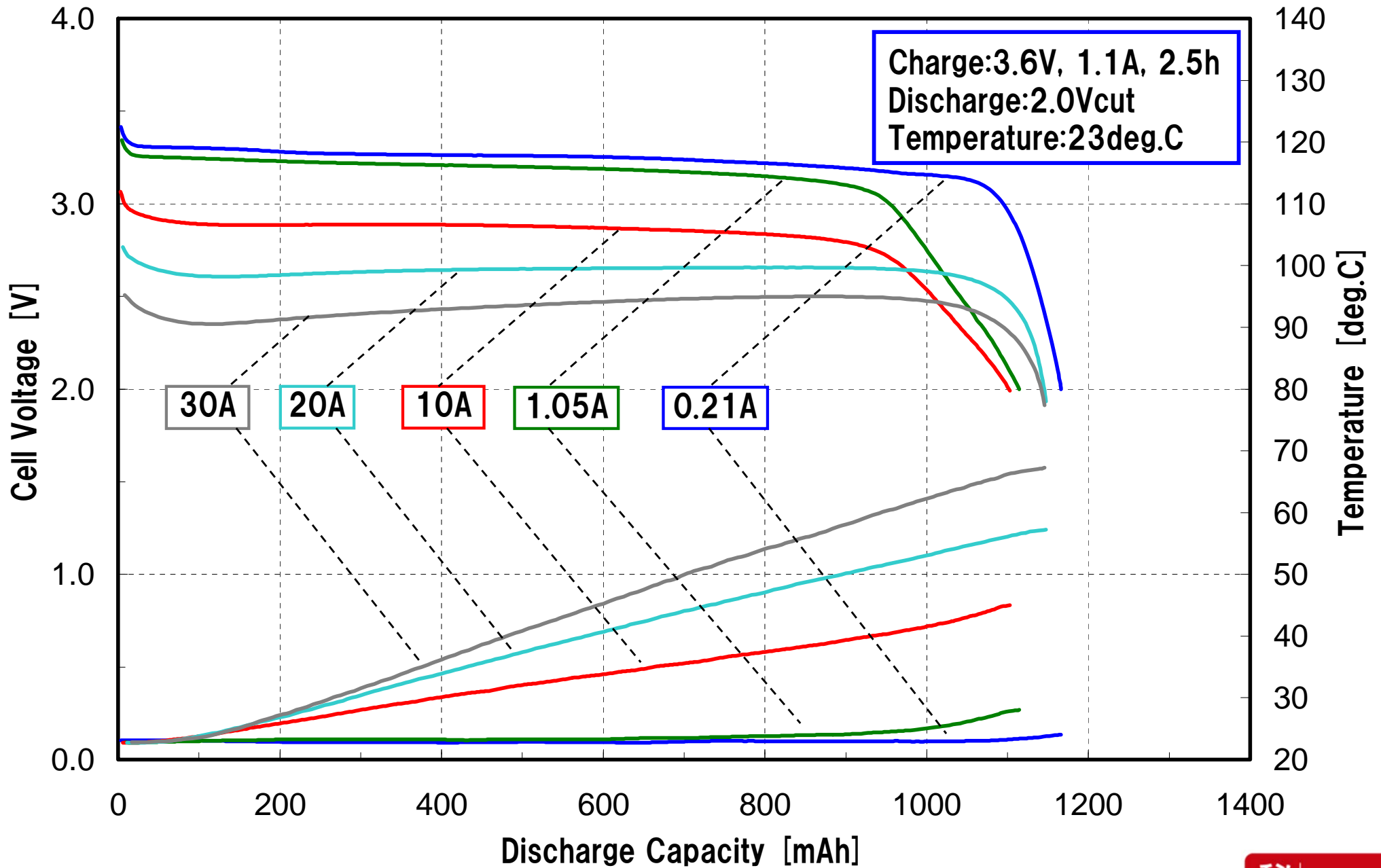
Charge Characteristics (US18650FTC1)



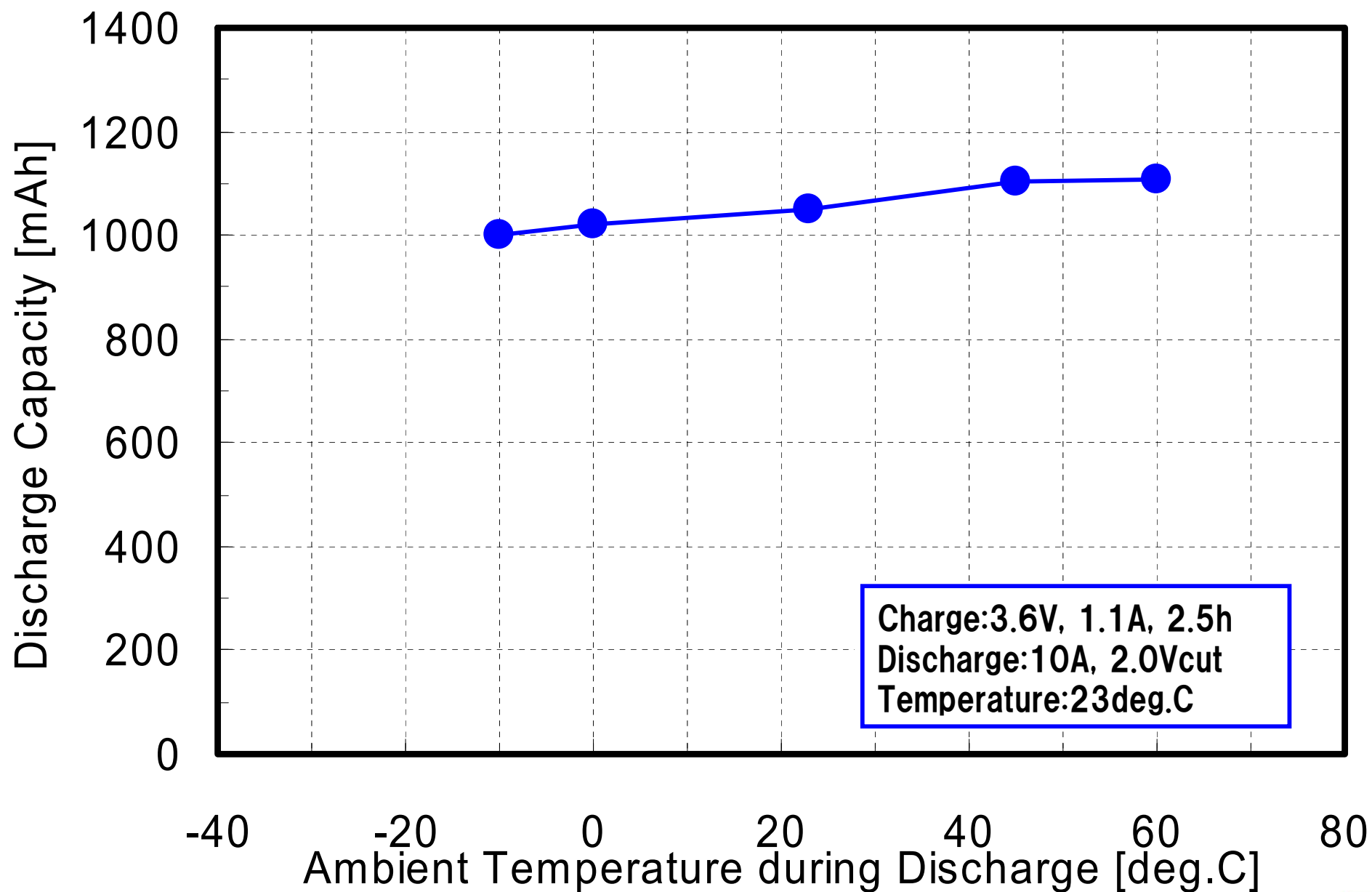
Discharge Load Characteristics (US18650FTC1)



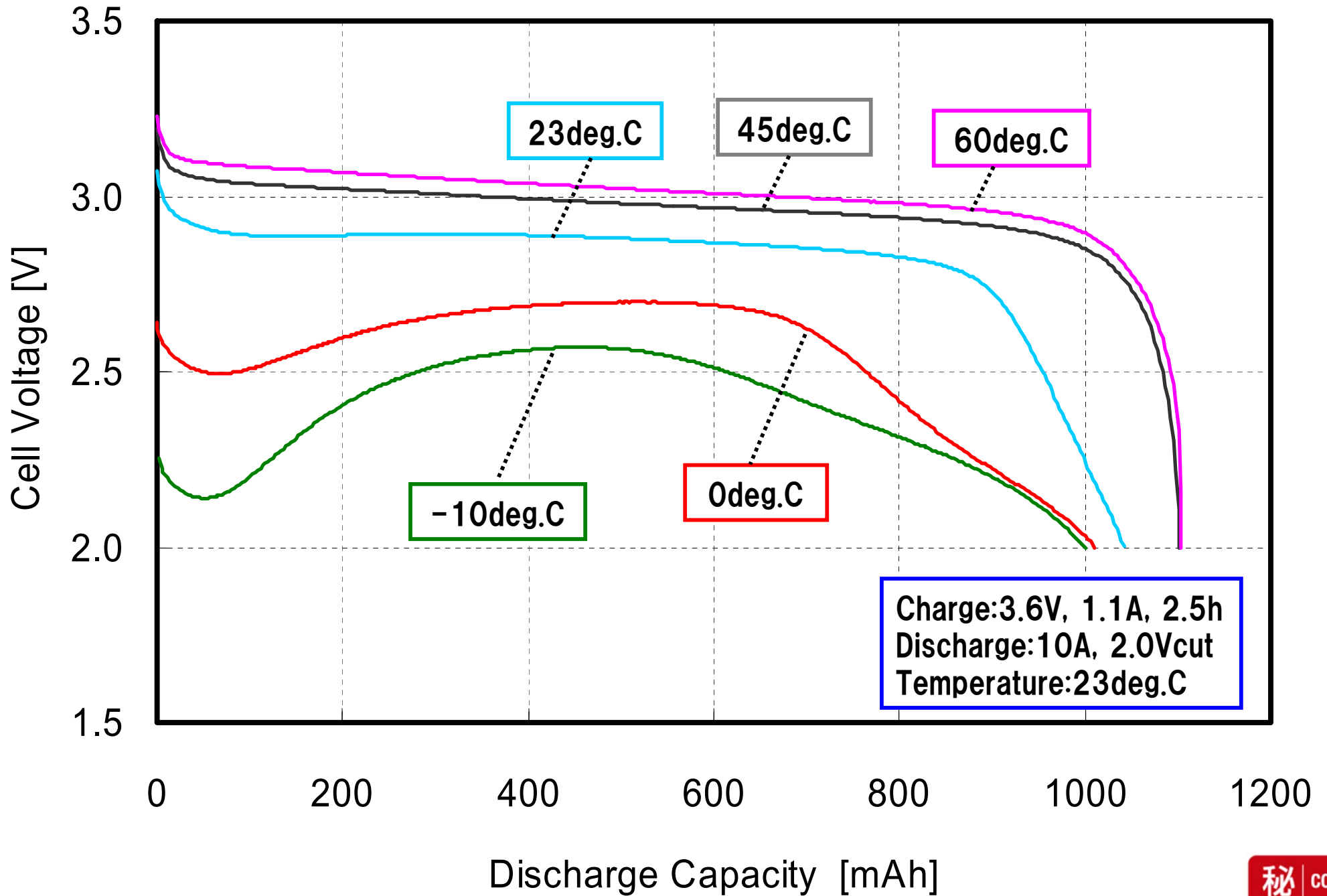
Discharge Load Characteristics (US18650FTC1)



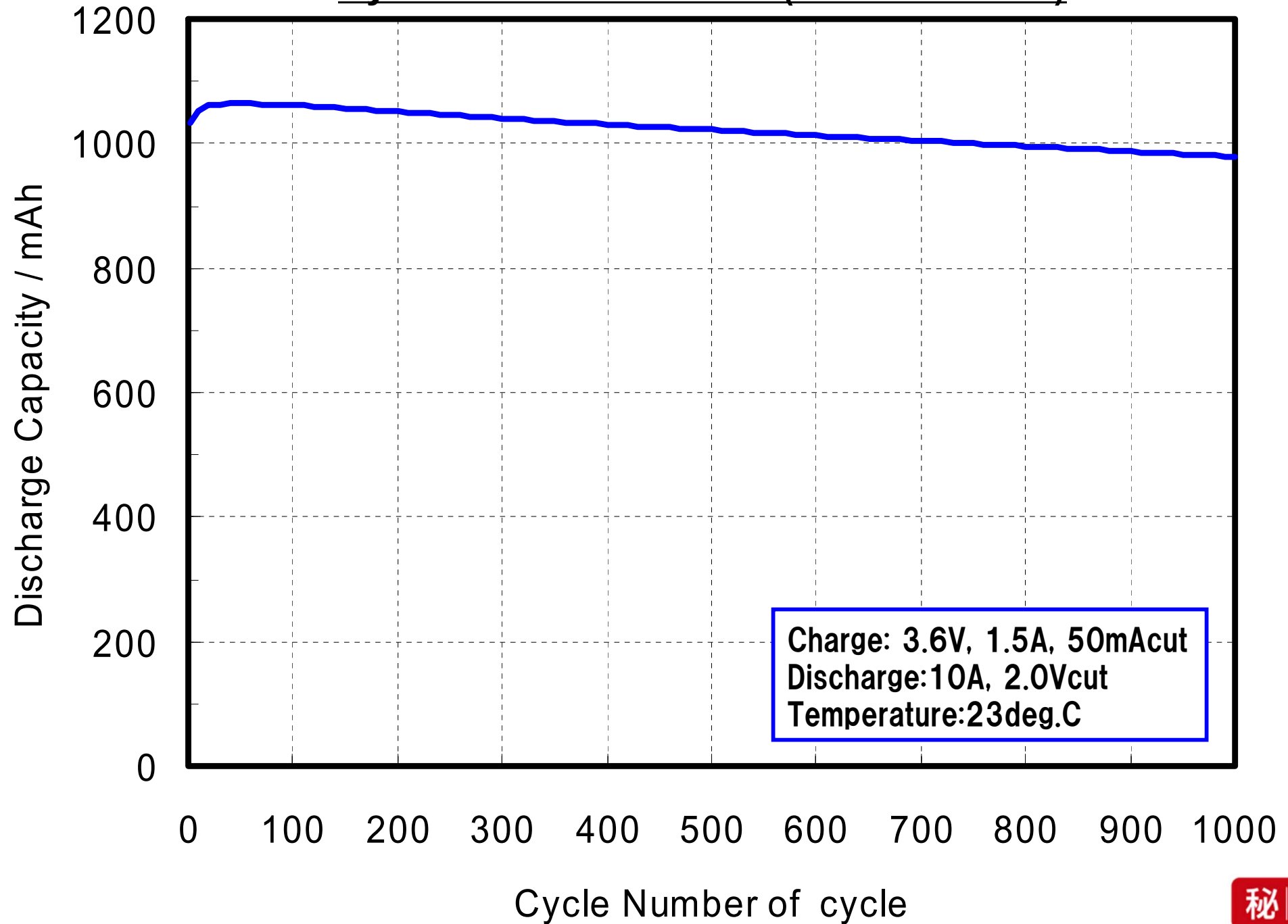
Temperature Dependence of Discharge Capacity (US18650FTC1)



Temperature Dependence of Discharge Curves(US18650FTC1)



Cycle Life Performance (US18650FTC1)



Dimension with Plastic Tube: US18650FTC1

