Lithium Ion Rechargeable Battery
Technical Information

Revision 0.2
30th Jun 2015

Model Number	US18650VTC6
Cell Type	Cylindrical
Cell Name	US18650VTC6
Sony Code	49939240

Sony Energy Devices Corporation
Device Solutions Business Group / Sony Corporation

1. General

1.1 Name and Code

1.1.1 Model Number : US18650VTC6
1.1.2 Cell Name : US18650VTC6
1.1.3 Sony Code : 49939240

1.2 Cell Shape and Weight

1.2.1 Cell Shape : Cylindrical
1.2.2 Size (with plastic tube) : Diameter 18.50mm max
Length 65.20mm max
1.2.3 Weight : 46.6g Average

1.3 Safety Regulation

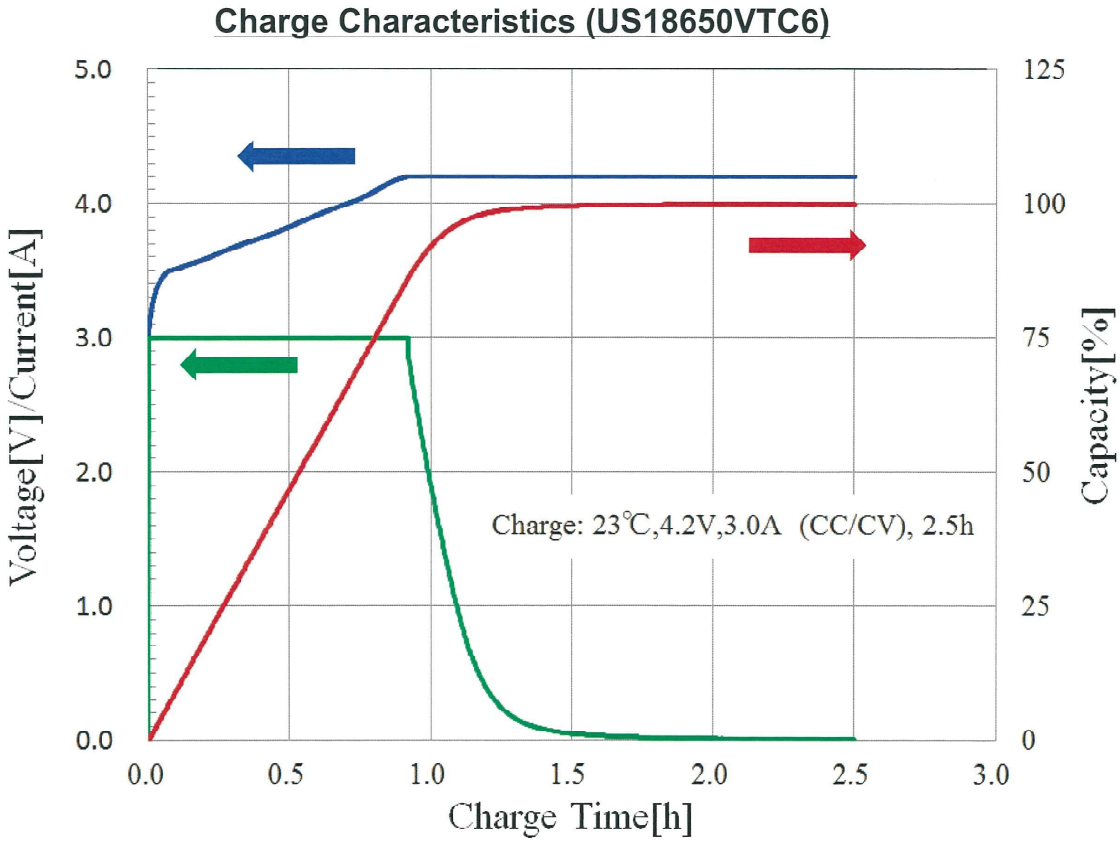
: Sony acquired UL1642.
: Sony acquired IEC62133 2nd edition.
: Sony acquired Korean regulation.
: Sony acquired Taiwan Commodity Inspection Act(CNS 15364)

2. Performance

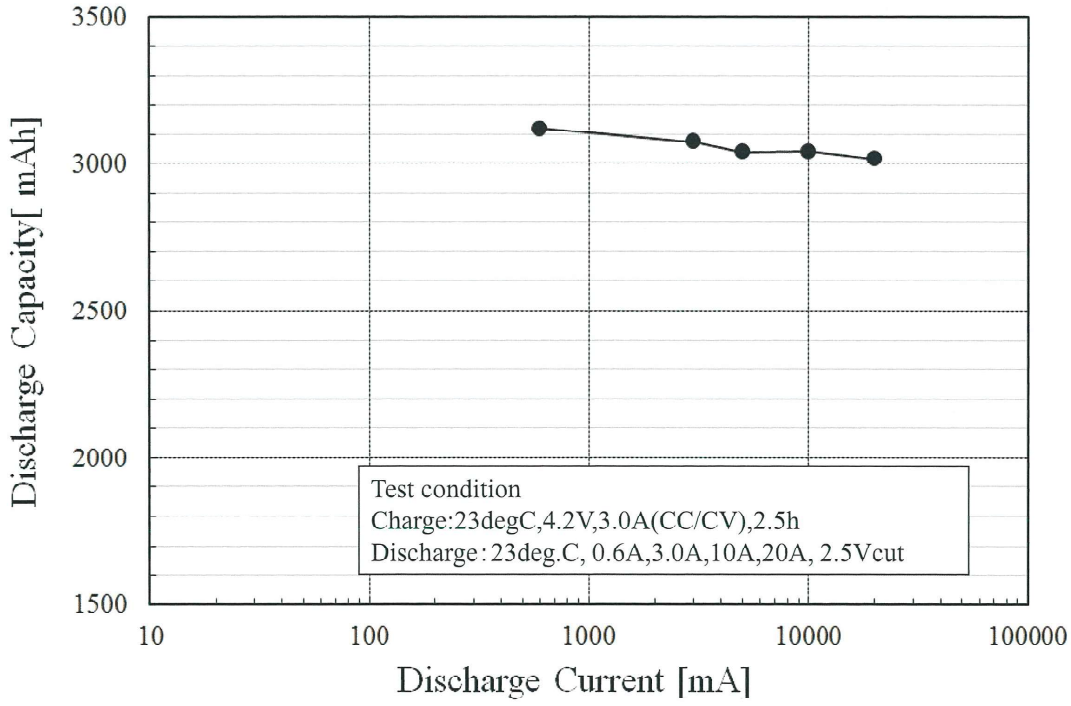
Nominal Capacity at 0.2ItA	3120mAh 11.23Wh	discharge 2.0V cut off at 23℃
Rated Capacity at 0.2ItA	3000mAh 10.8Wh	discharge 2.0V cut off at 23℃
Capacity at 1ItA (typ.)	2850mAh 10.12Wh	discharge 2.5V cut off at 23℃
Capacity at 10A (typ.)	2700mAh 9.18Wh	discharge 2.5V cut off at 23℃
Nominal Voltage	3.6V	
Internal Impedance	13mΩ Typ.	measured by AC1kHz
Cycle Performance	53% Min. of Initial capacity at 300 cycles	10A discharge

* Standard Charge Condition

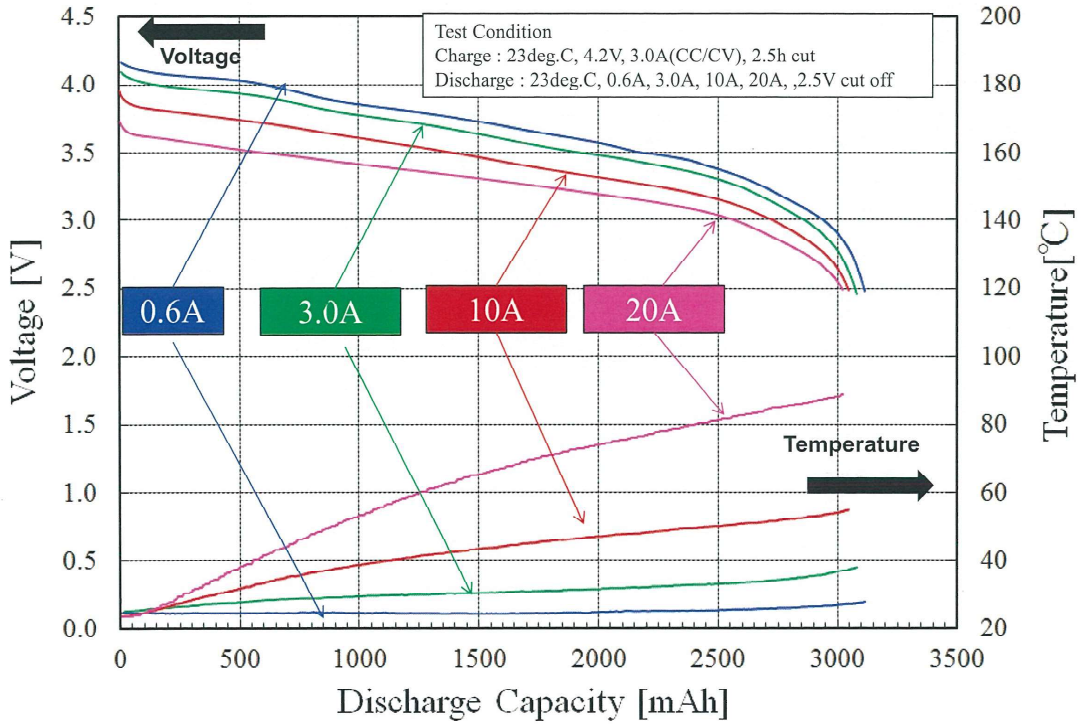
Charge Method : constant current constant voltage
Charge Up Voltage : 4.2± 0.05V
Charge Current : 3.0A
Charge Time : 2.5h
Ambient Temperature : 23°C


Charge Characteristics (US18650VTC6)
Voltage[V]/Current[A]
Capacity[%]
Charge Time[h]
Charge: 23℃,4.2V,3.0A (CC/CV), 2.5h
5.0
4.0
3.0
2.0
1.0
0.0
125
100
75
50
25
0
0.0
0.5
1.0
1.5
2.0
2.5
3.0

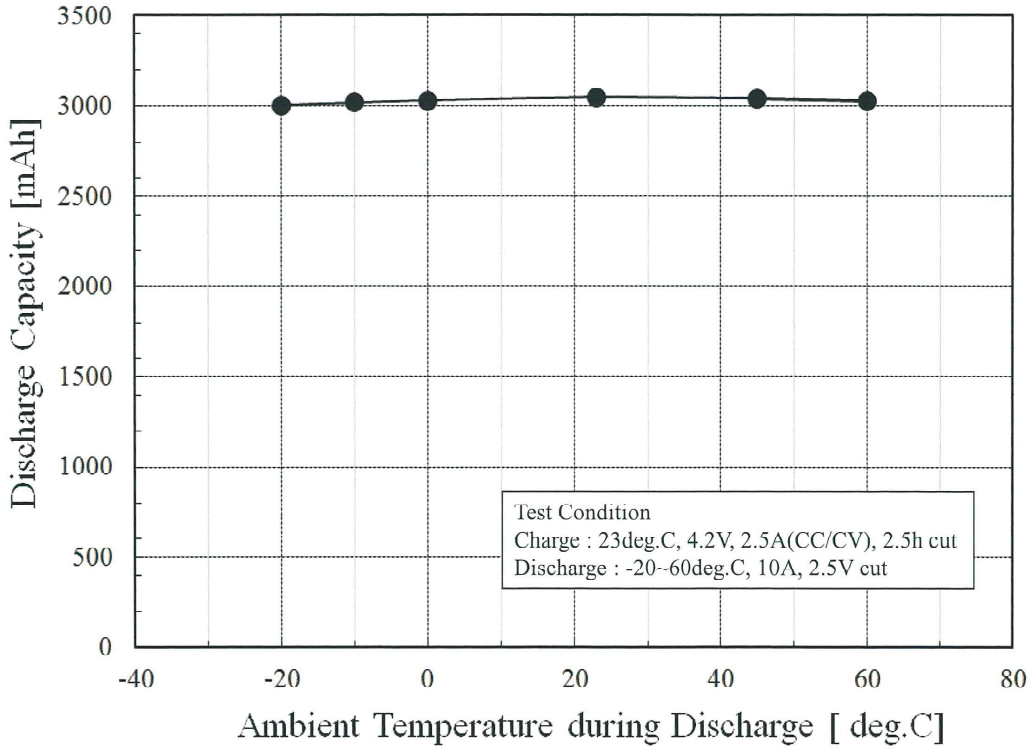
Discharge Load Characteristics (US18650VTC6)



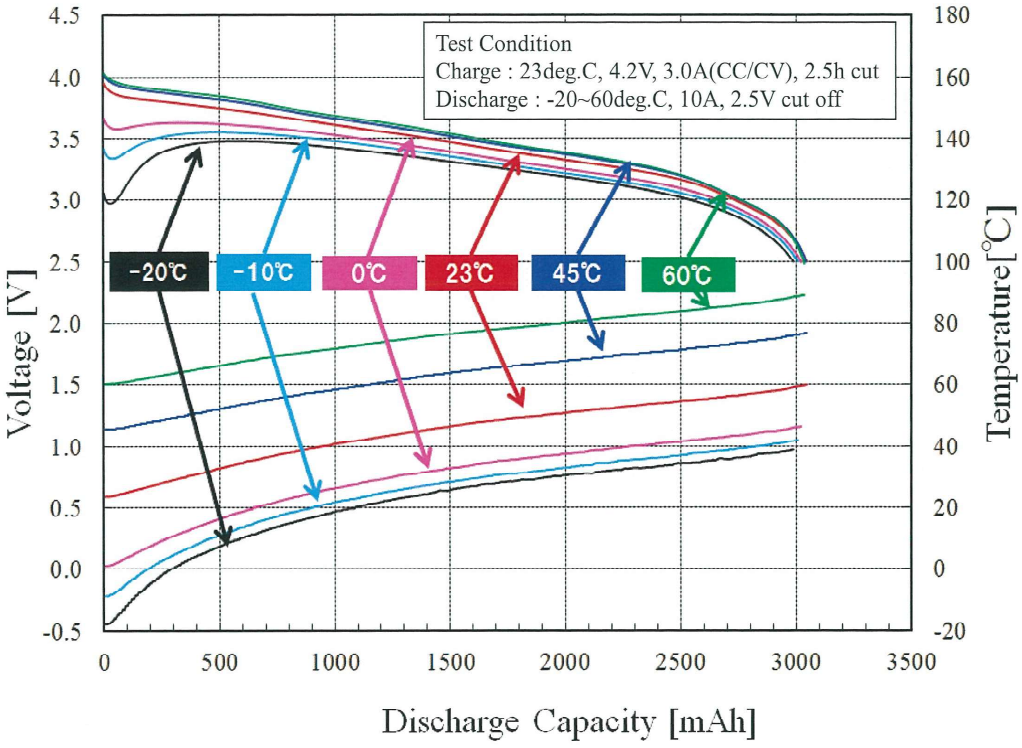
Discharge Load Characteristics (US18650VTC6)



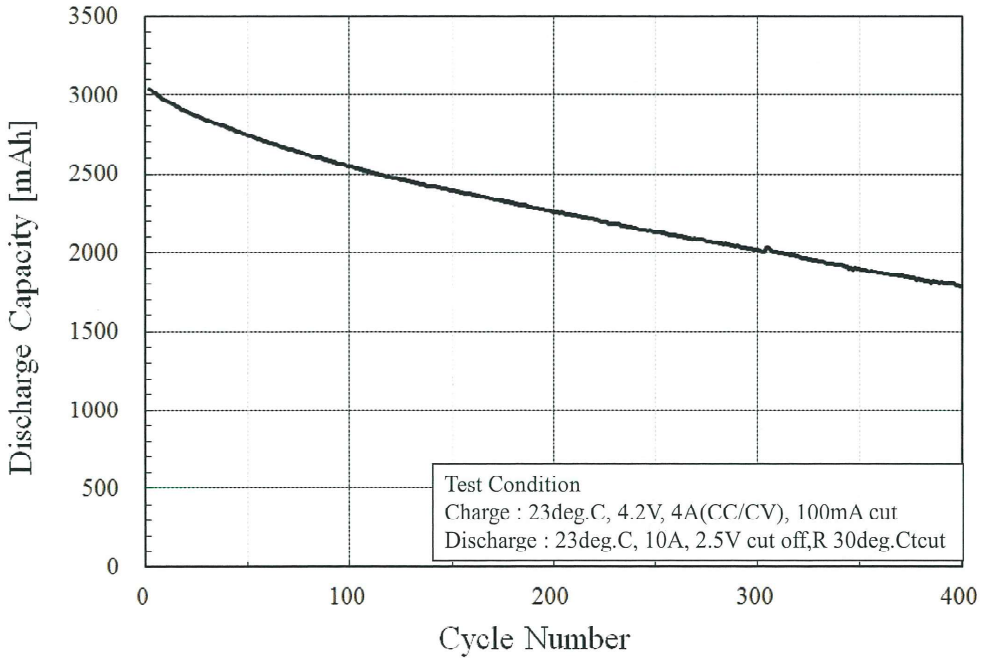
Temperature Dependence of Discharge Capacity (US18650VTC6)



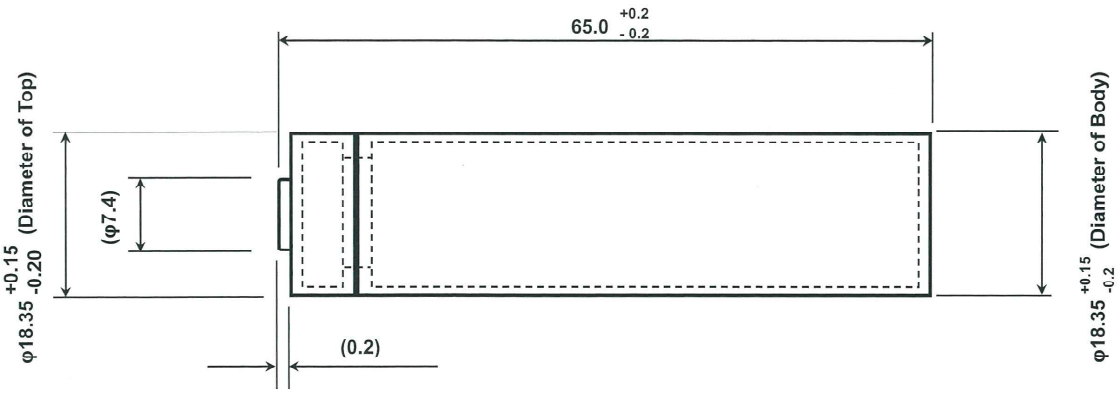
Temperature Dependence of Discharge Curves (US18650VTC6)



Cycle Life Performance (US18650VTC6)
10A discharge



Dimension with Plastic Tube: US18650VTC6



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