

## Sony US18650VTC2

### High Power Lithium Ion Manganese Cell

For all applications like power tools, gardening tools, household applications etc.

#### 1. General

##### 1.1 Scope

This specification shall be applied to lithium ion manganese rechargeable battery cells named US18650VTC2.

US18650VTC2 utilized lithium ion manganese cathode material. It brings also high-power and long-life performance characteristic.

##### 1.2 Name and Code

- 1.2.1 Cell Name : US18650VT  
 1.2.2 Model Number: US18650VTC2

##### 1.3 Cell Shape and Weight

- 1.3.1 Cell Shape: Cylindrical  
 1.3.2 Size (with plastic tube) :  
 Diameter: 18.35 mm max.  
 Length: 65.1 mm max.  
 1.3.3 Weight: 43.4 g average

##### 1.4 Safety Regulation

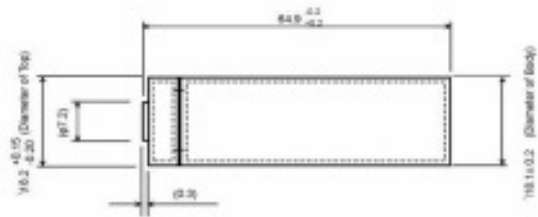
UL acquired

#### 2. Performance

at room temperature, 2.5V cut off

Nominal Capacity (0.2ItA discharge)	1650mAh	
Rated Capacity (0.2ItA discharge)	1550mAh	minimum capacity
Capacity at 1C	1620mAh	average capacity
Capacity at (10A discharge)	1530mAh	average capacity
Nominal Voltage	3.7V	
Internal Impedance	16mΩ Typ.	average measured by AC1kHz

Cell Size (with plastic tube)



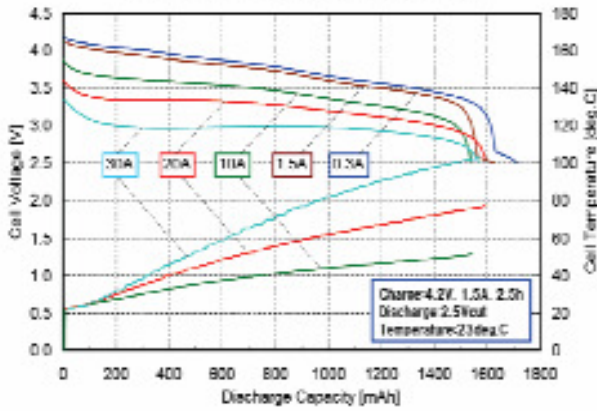
##### \* Standard Charge Condition

Charge Method	: constant current, constant voltage
Charge Up Voltage	: 4.2±0.05V
Charge Current	: 1.55A
Charge Time	: 2.5h
Ambiance Temperature	: 23°C

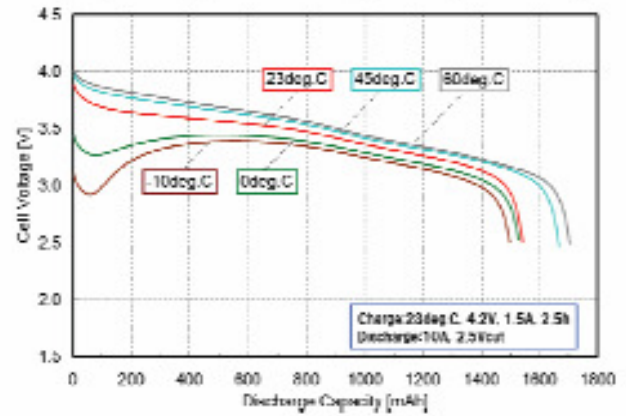
Technical Information

**Sony US18650VTC2**

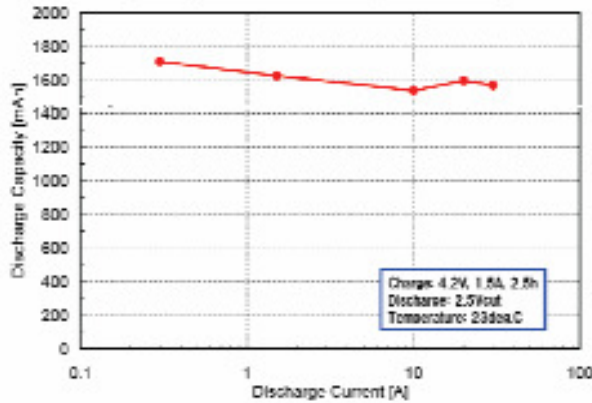
Discharge Load Characteristics (US18650VTC2)



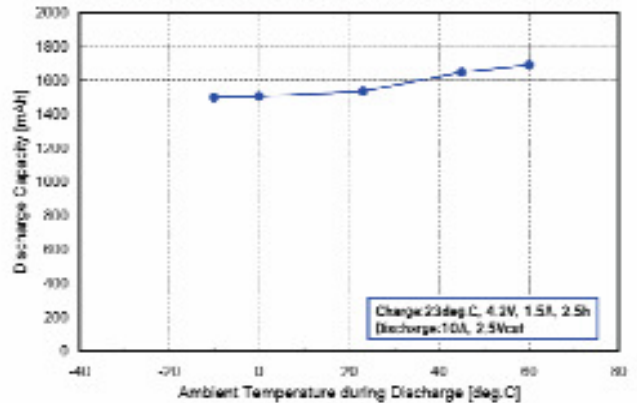
Temperature Dependence of Discharge Curves (US18650VTC2)



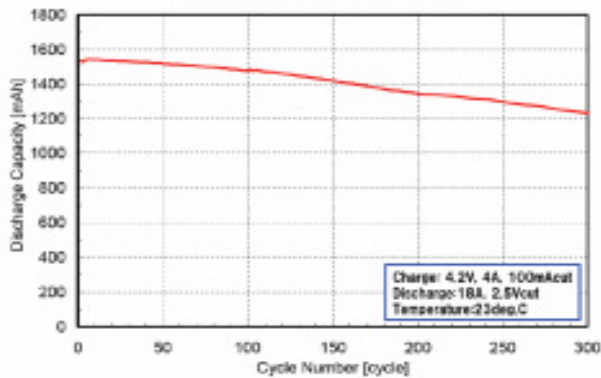
Discharge Load Characteristics (US18650VTC2)



Temperature Dependence of Discharge Capacity (US18650VTC2)



Cycle Life Performance (US18650VTC2)



Charge Characteristics (US18650VTC2)

