

Sony US18650VTC3

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 US18650VTC3.

US18650VTC3 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 : US18650VTC
- 1.2.2 Model Number: US18650VTC3

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: 45.1 g average

1.4 Safety Regulation

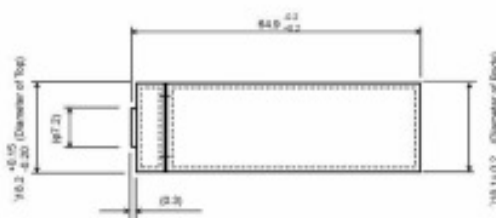
UL acquired

2. Performance

at room temperature, 2.5V cut off

Nominal Capacity (0.2ItA discharge)	1600mAh	
Rated Capacity (0.2ItA discharge)	1500mAh	minimum capacity
Capacity at (1.5A discharge)	1425mAh	average capacity
Capacity at (20A discharge)	1200mAh	average capacity
Nominal Voltage	3.7V	
Internal Impedance	12mΩ Typ.	average measured by AC1kHz

Cell Size (with plastic tube)



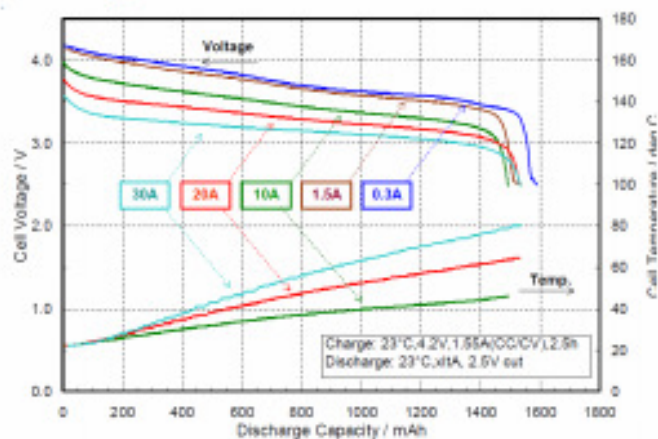
* Standard Charge Condition

Charge Method	: constant current, constant voltage
Charge Up Voltage	: 4.2±0.05V
Charge Current	: 1.5A
Charge Time	: 2.5h
Ambiance Temperature	: 23°C

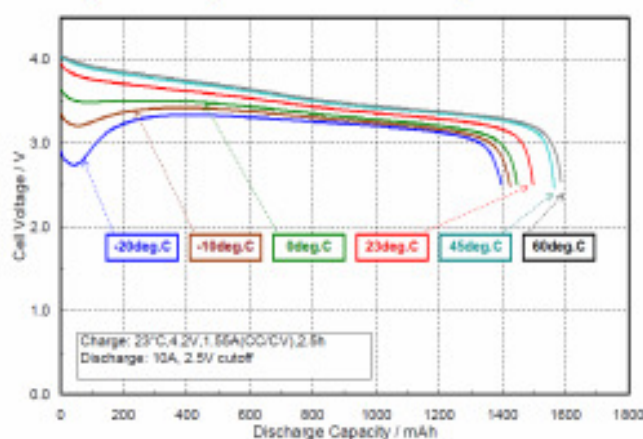
Technical Information

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Discharge Curves



Temperature Dependence of Discharge Curves



Discharge Load Characteristics

