

Lithium Ion Rechargeable Battery

Technical Information

Revision 1.0
21 January 2011

Cell Name	US14500VR2
Cell Type	Cylindrical
Model Number	US14500VR2
Sony Code	49915470

Sony Energy Devices Corporation
Device Solutions Business Group / Sony Corporation

1. General

1.1 Name and Code

1.1.1 Cell Name : US14500VR2
1.1.2 Model Number : US14500VR2
1.1.3 Sony Code : 49915470

1.2 Dimensions and Weight

1.2.1 Cell Shape : Cylindrical
1.2.2 Size (with plastic tube) : Diameter 14.15mm max.
Length 49.30mm max.
1.2.3 Weight : 19.3g (typical)

1.4 Safety Regulation

Sony will acquire UL1642.

2. Performance

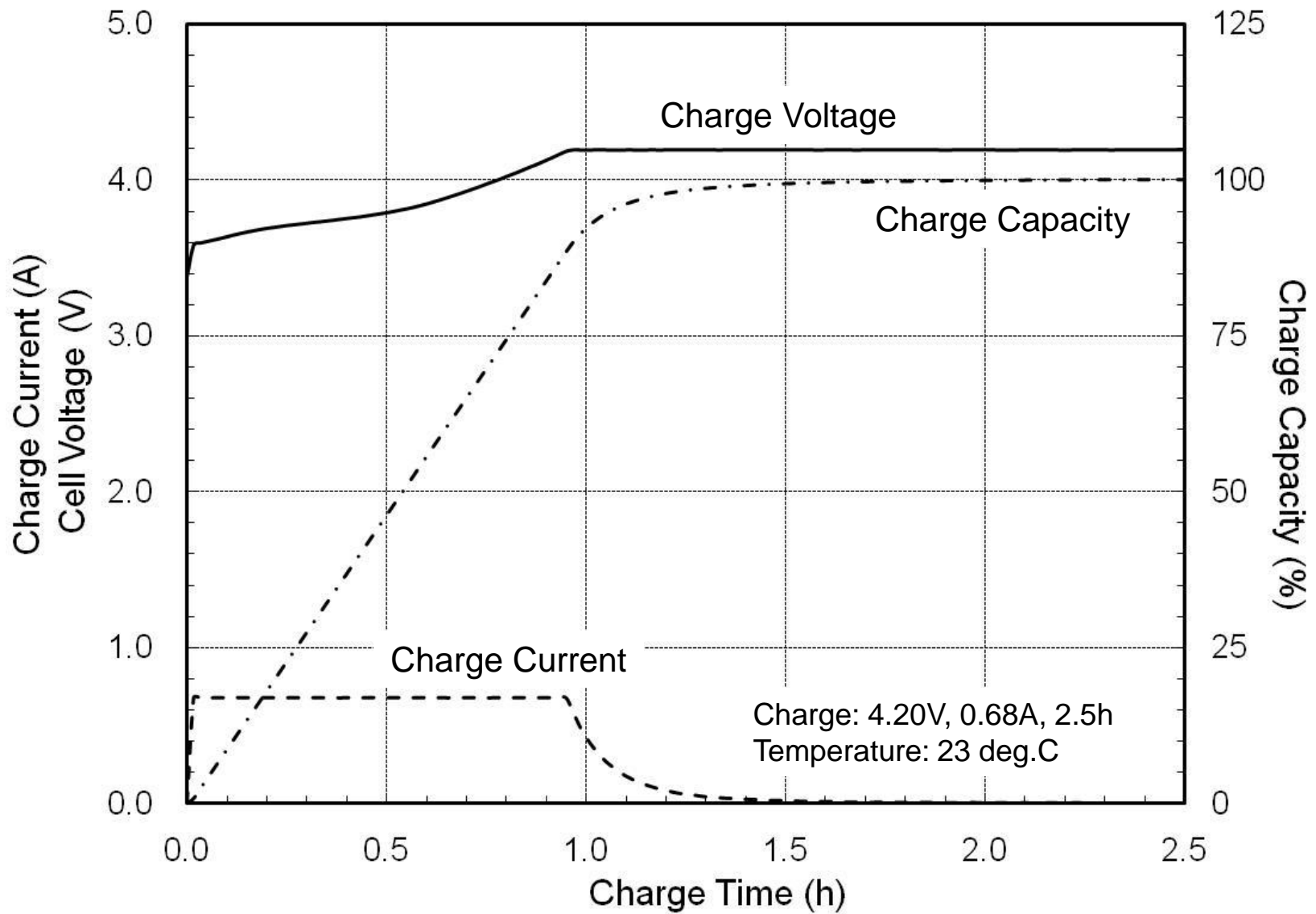
At room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	715mAh 2.65Wh	average capacity 3.70V (average discharge voltage)
Rated Capacity (0.2ItA discharge)	680mAh 2.48Wh	minimum capacity
Capacity at 0.5ItA	700mAh 2.57Wh	average capacity
Capacity at 1ItA	685mAh 2.48Wh	average capacity
Nominal Voltage	3.6 V	
Internal Impedance	75mΩ	measured by AC1kHz (SOC 100%)
Cycle Performance	75% of Initial capacity at 300 cycles	1.0ItA discharge rate 3.0V cut off

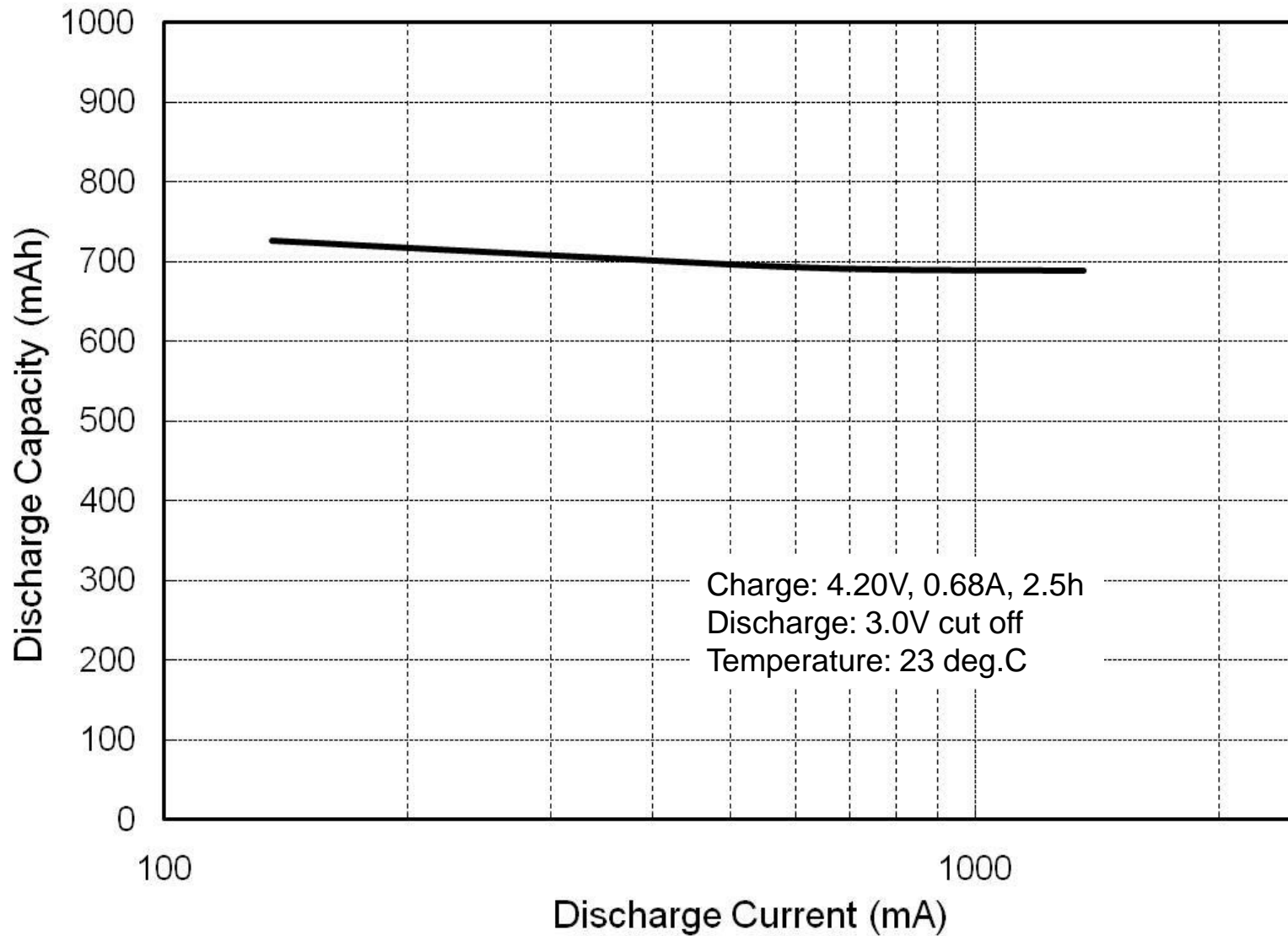
* Standard Charge Condition

Charge Method : constant current constant voltage
Charge Up Voltage : 4.2V
Charge Current : 0.68A
Charge Time : 2.5 hours charge
Ambiance Temperature : 23 degC

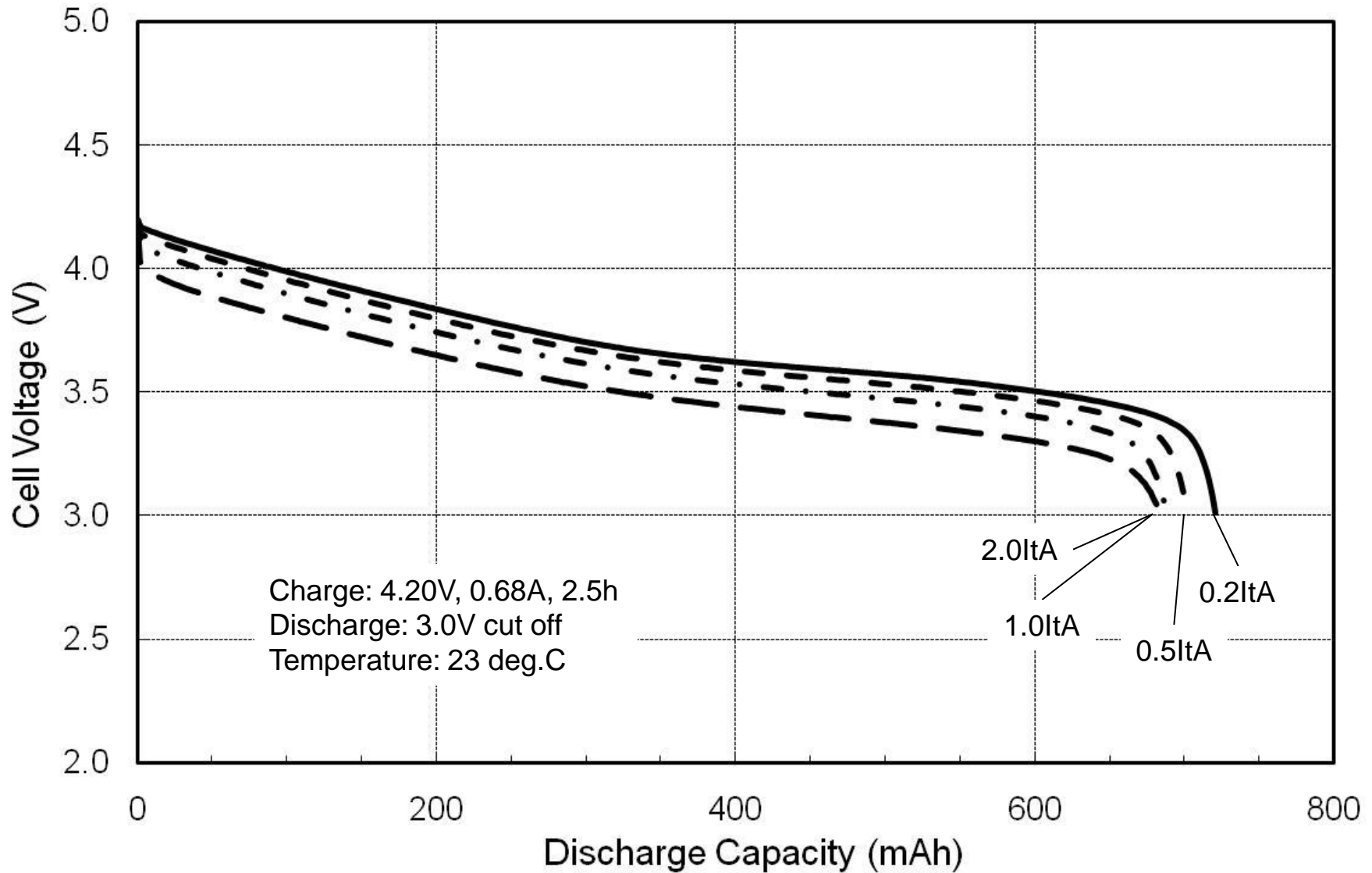
Charge Characteristics (US14500VR2)



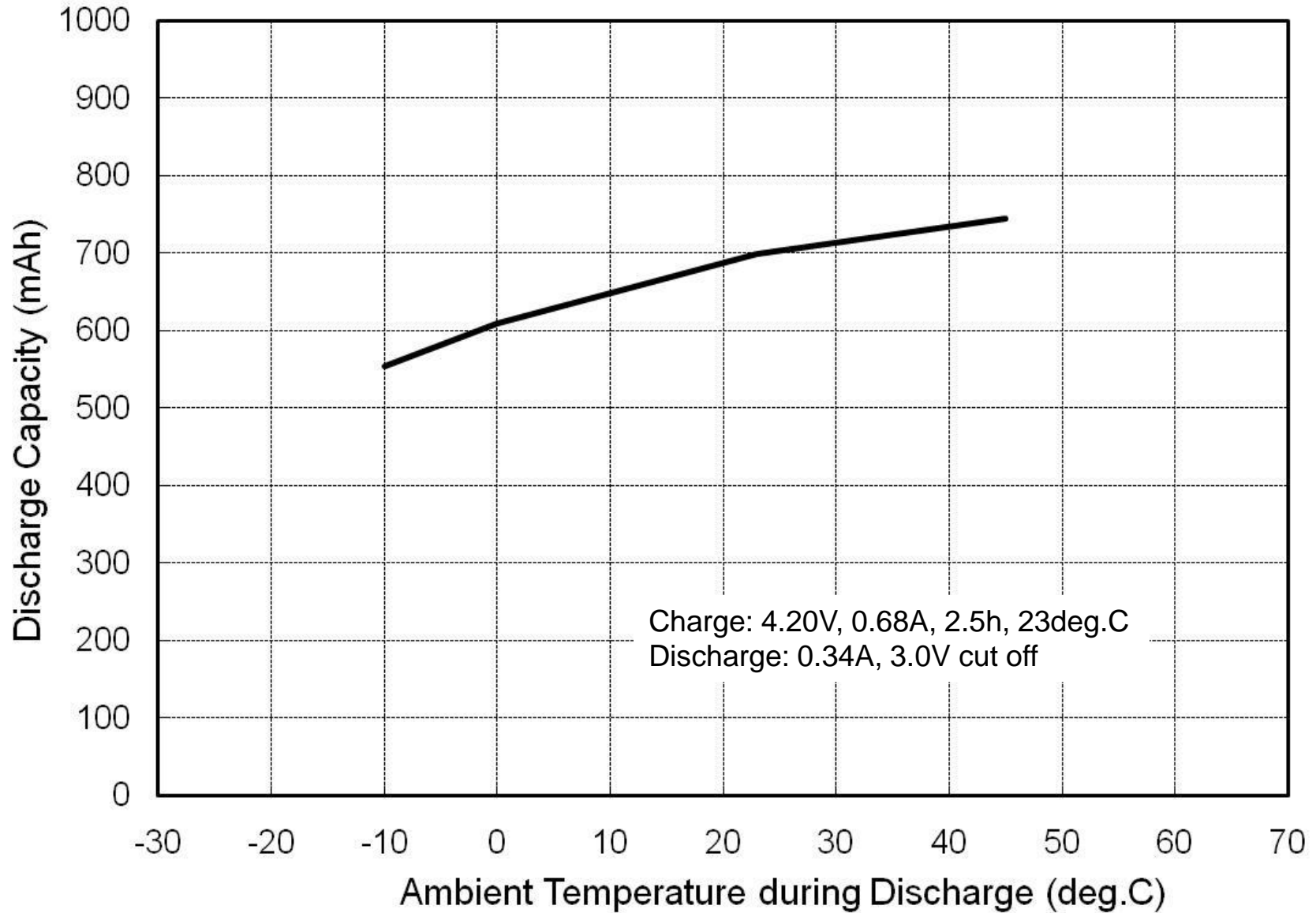
Discharge Load Characteristics (US14500VR2)



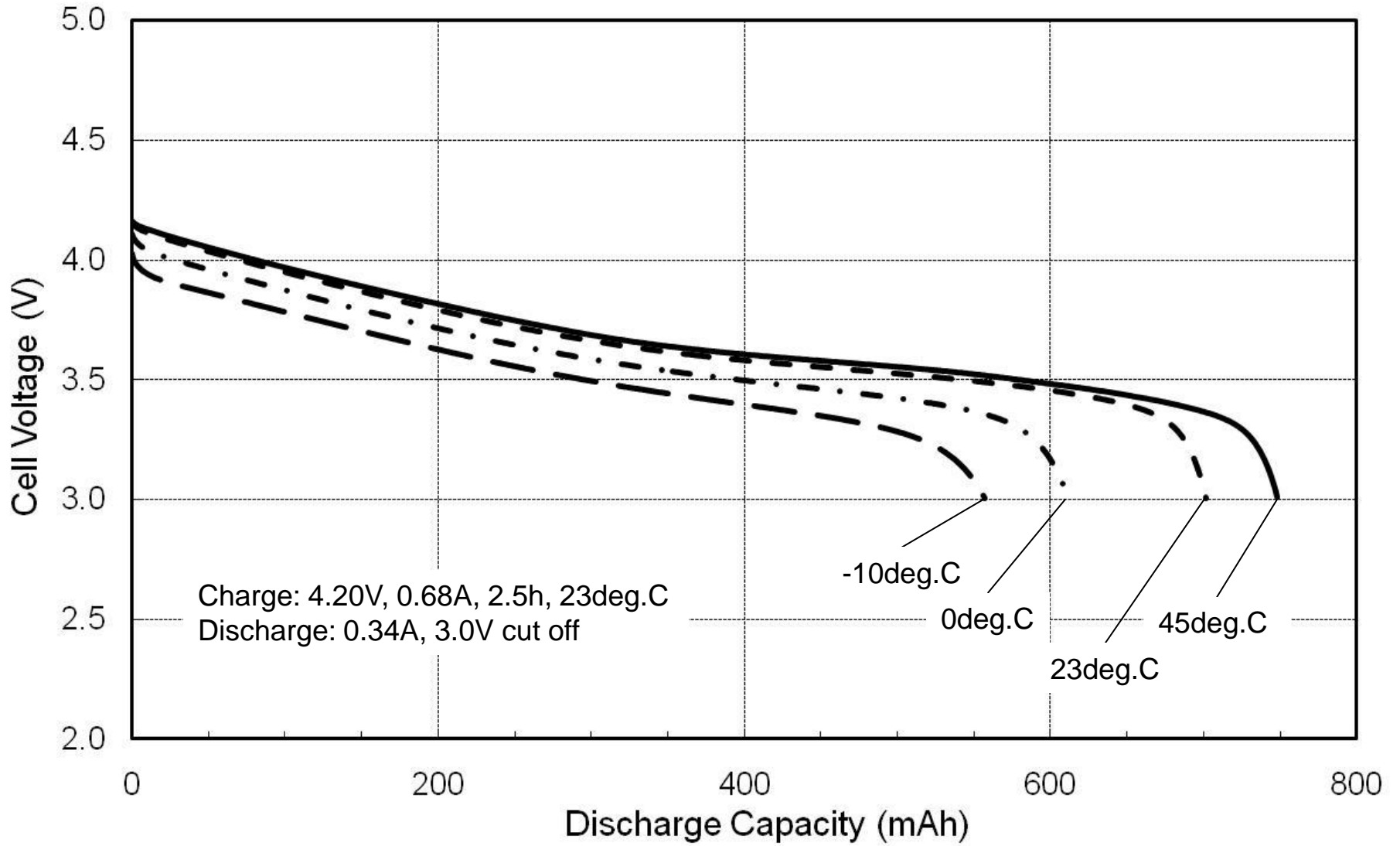
Discharge Load Characteristics (US14500VR2)



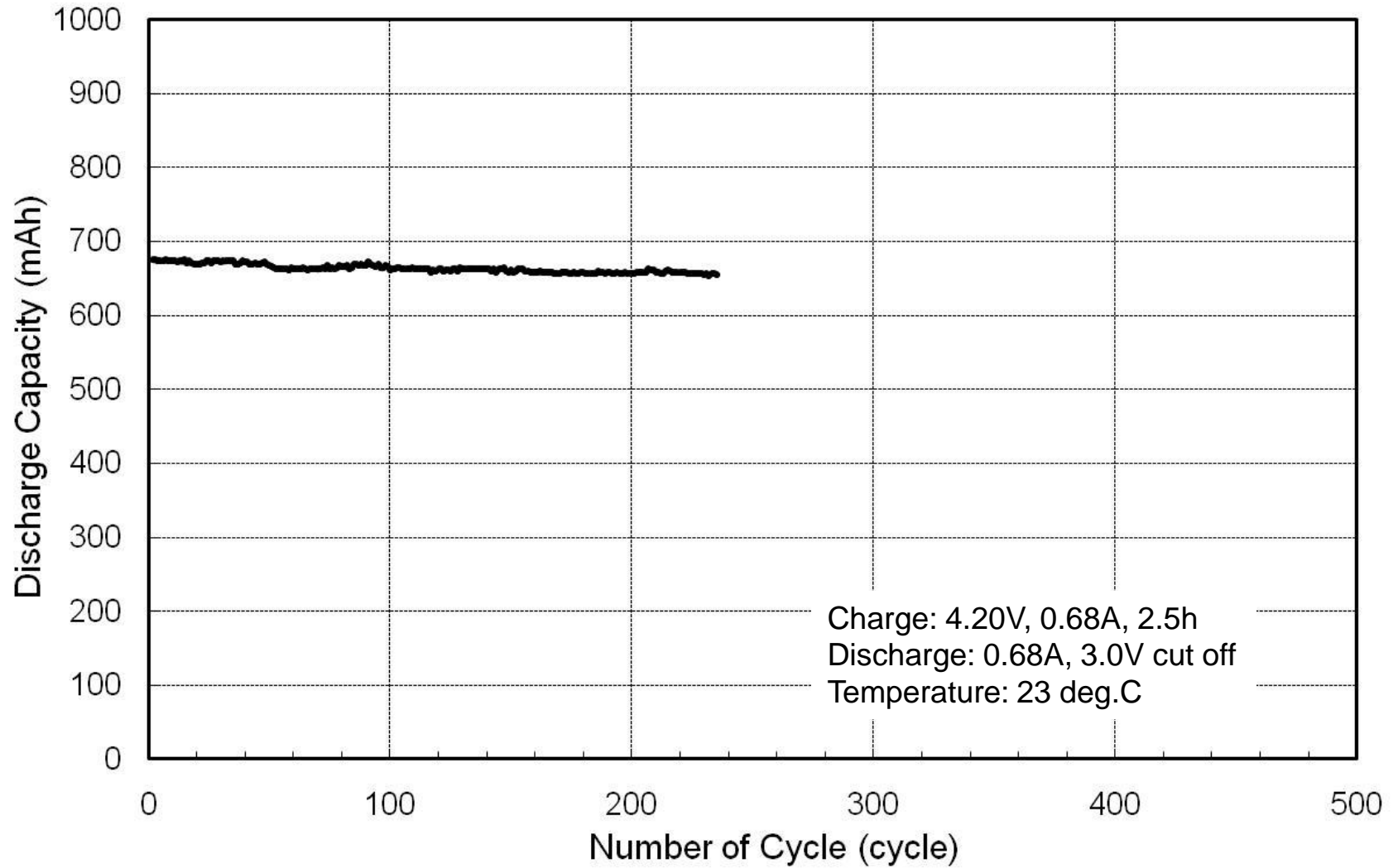
Temperature Dependence of Discharge Capacity (US14500VR2)



Temperature Dependence of Discharge Capacity (US14500VR2)



Cycle Life (US14500VR2)



Cell Size (with plastic tube)

