

# **Li-ion Polymer Rechargeable Battery Technical Information**

**Revision 0.1  
2013.1.9**

<b>Cell Name</b>	<b>US3183A2</b>
<b>Cell Type</b>	<b>Polymer</b>
<b>Model Number</b>	<b>US3183A2K7S</b>
<b>Sony Code</b>	<b>49926470</b>

**Sony Energy Devices Corporation  
Device Solutions Business Group / Sony Corporation**

## 1. General

### **1.1 Scope**

This specification applies to type  
: US3183A2 Lithium Ion Polymer Rechargeable Battery

### **1.2 Name and Code**

**1.2.1 Cell Name** : US3183A2  
**1.2.2 Model Number** : US3183A2K7S  
1.2.3 Code : 49926470

### **1.3 Cell Shape and Weight**

**1.3.1 Cell Shape** : Polymer  
**1.3.2 Size** : Thickness 3.05mm max  
Width 83mm max  
Length (without tab) 102mm max  
**1.3.3 Weight** : 60g (typical)

### **1.4 Reference test current**

1ItA : 3,220mA

### **1.5 Safety Regulation**

Sony will acquire UL1642.

## 2. Performance

at room temperature, 3.0V cut off

Nominal Capacity (0.2ItA discharge)	3,350mAh 12.73Wh	average capacity 3.8 V (average discharge voltage)
Rated Capacity (0.2ItA discharge)	3,220mAh 12.08Wh	minimum capacity
Capacity at 0.5ItA	3,310mAh 12.31Wh	average capacity
Capacity at 1.0ItA	3,240mAh 11.73Wh	average capacity
Nominal Voltage	3.75V	
Internal Impedance	30mΩ	measured by AC1kHz
Cycle Performance	80% of Initial capacity at 400 cycles	0.5ItA discharge rate

### \* Standard Charge Condition

Charge Method : constant current constant voltage  
Charge Up Voltage : 4.3 V ± 0.05V  
Charge Current : 2,254mA  
Cut off Current : 161mA  
Ambiance Temperature : 23°C

\* Maximum Charge Current : 4,830mA

### ### Note

This is target specification in planning stage.  
Please confirm that some data can be changed in mass production.

# Cell Size (US3183A2K7S)

