

# High Energy Lithium Ion Rechargeable Battery



## 1. General

### 1.1 Name and Code

1.1.1 Cell Name: BCMICR18650F5

### 1.2 Size and Weight

1.2.1 Cell Shape: Cylindrical

1.2.2 Size (with plastic tube):  
 Diameter: 18.3 mm max.  
 Length: 65.0 mm max.

1.2.3 Weight: 43.0g (average)

### 1.3 Safety Regulation

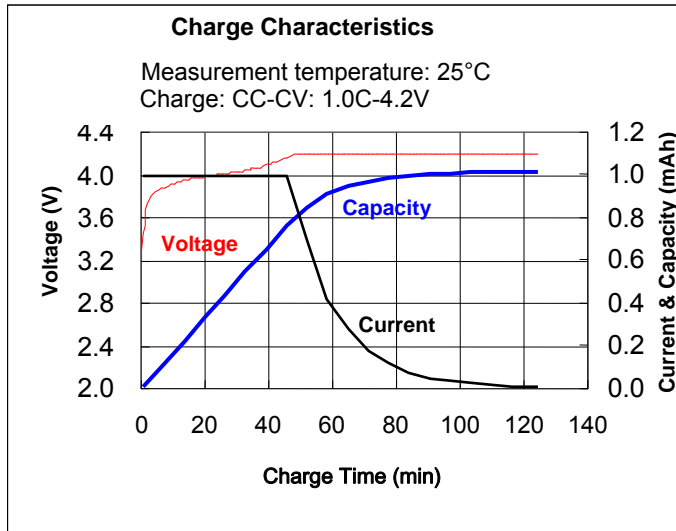
GB/T18287-2000

UL tested and approved

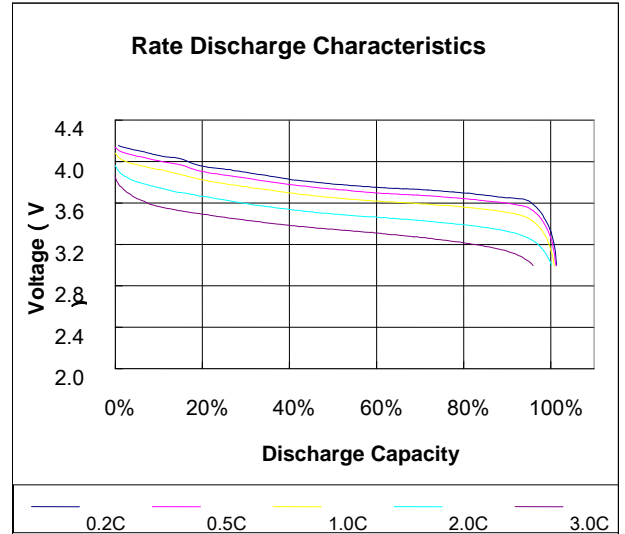
## 2. Performance

Nominal Capacity (0.5C Discharge)	2200mAh 8.14Wh
Minimum Capacity (0.5C Discharge)	2150mAh
Nominal Voltage	3.7V
Internal Impedance	≤ 70mΩ
Discharge Cut-off Voltage	3.0V
Max Charge Voltage	4.20±0.05V
Standard Charge Current	0.5C
Rapid Charge Current	1.0C
Standard Discharge Current	0.5C
Rapid Discharge Current	1.0C
Max Discharge Current	2.0C
Operating Temperature	Charge: 0 ~ 45°C Discharge: -20 ~ 60°C
Storage Temperature	During 1 month: -5 ~ 35°C During 6 months: 0 ~ 35°C
Standard Charge	Constant Current and Constant Voltage (CC/CV) Current = 1100mA Final charge voltage = 4.2V Final charge Current = 40mA
Standard Discharge	Constant Current (CC) Current = 1100mA End Voltage = 3.0V
External Short Circuit	No fire, no explosion
Overcharge (3C/10V)	No fire, no explosion
Thermal shock (150°, 10min)	No fire, no explosion
Cycle Life (0.5C, 100%DOD)	80% initial capacity at 300 cycles

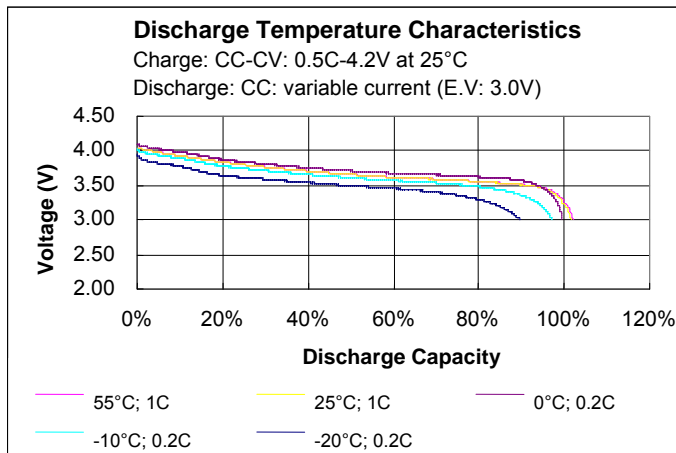
### Charge Characteristics



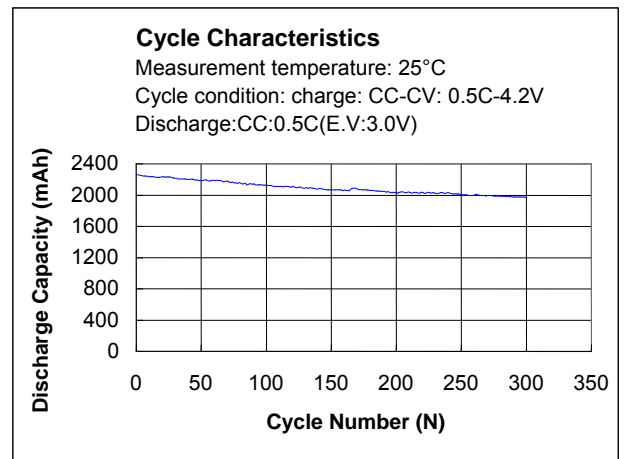
### Rate Discharge Characteristics



### Discharge Temperature Characteristics



### Cycle Characteristics



### Dimensions

