

Rechargeable Battery

BATTERY LI-ION:LCR18650 2600MAH (FLAT TOP,W/O PCM)

The Professional Cylindrical Li-Ion Battery Manufacturer

High Energy Lithium Ion Rechargeable Cylindrical

1. General

1.1 Cell Name: 18650

1.2 Size and Weight

1.2.1 Cell Shape: Cylindrical

1.2.2 Size

Diameter: 18.5 mm max

Length: 65.5 mm max

1.2.3 Weight : 41.0g Average

1.3 Safety Regulation

In this specification reference is made to:

GB/T18287-2000, UL1642

2. performance

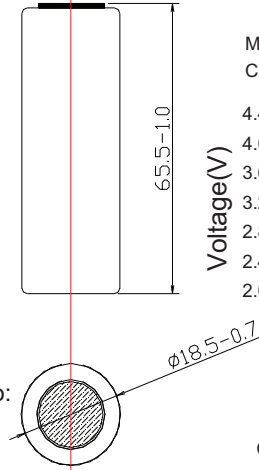
Nominal Capacity (0.2C Discharge)	2600mAh 9.62Wh
Minimum Capacity	2200mAh (0.2C Discharge)
Internal Impedance	≤ 150mΩ(with PTC)
Discharge Cut-off Voltage	3.0V
Max Charge Voltage	4.20±0.05V
Standard Charge Current	0.2C
Rapid Charge Current	0.7C
Standard Discharge Current	0.2C
Rapid Discharge Current	1.0C
Max discharge current	3.0C

Important:

Every lithium ion battery pack must have a safety board which monitors the charge and discharge of the pack, and prevents dangerous things from happening.

include the following:

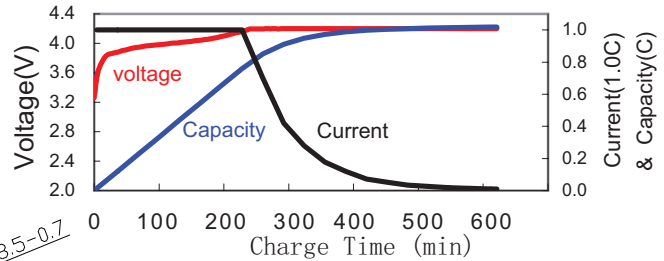
- * Reverse polarity protection.
- * must not be charged when temperature is lower than 0° C or above 45° C.
- * Charge current must not be too high, typically below 0.5C.
- * Discharge current protection to prevent damage due to short circuits.
- * Charge voltage--a permanent fuse opens if too much voltage is applied to the battery terminals
- * Overcharge protection--stops charge when voltage per cell rises above 4.20 volts.
- * Overdischarge protection--stops discharge when battery voltage falls below 3.0 volts per cell
- * A fuse opens if the battery is ever exposed to temperatures above 90° C.



Charge Characteristics

Measurement temperature:25°C

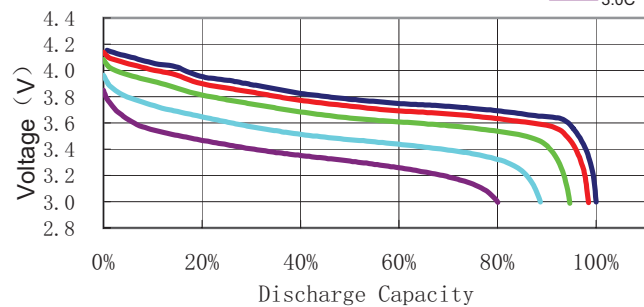
Charge:CC-CV:0.2C-4.2V



Rate Discharge Characteristics

Charge:CC-CV:0.5C-4.2V at25°C

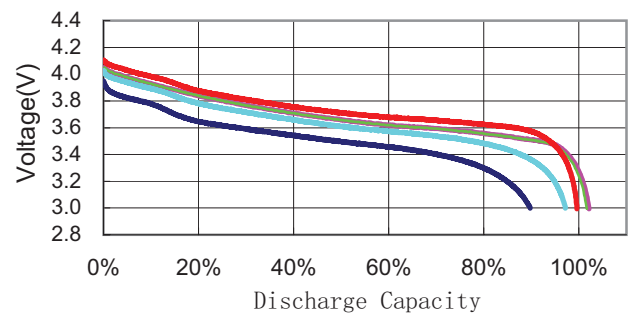
Discharge:CC:variable Current(E.V:3.0V)



Discharge Temperature Characteristics

Charge:CC-CV:0.5C-4.2V at25°C

Discharge:CC:variable Current(E.V:3.0V)



Cycle Characteristics

Measurement temperature:25°C

Cycle condition:charge:CC-CV:0.5C-4.2V

Discharge:CC:0.5C(E.V:3.0V)

