

Li-Ion Cylindrical Battery

Customer No: X18650H-3400PCM

Model: X18650H 3.7V 3400mAh

1. Preface

This document describes the Product Specification of the Li-ion Cylindrical rechargeable battery cell supplied by XCell.

2. Battery configuration

2.1 Model: X18650H 3.7V 3400mAh

2.2 Assembly Drawing. (unit: mm)

3. Specification

NO.	Items	Standard	Remarks
1	Typical capacity	3400 mAh	Discharge current:0.2C Cut-off voltage:3.0V/cell
2	Minimum capacity	3350 mAh	
3	Charge voltage	4.2 V	
4	Nominal voltage	3.7 V	
5	Discharge cut-off voltage	3.0 V	
6	Charge current	Standard: 0.2 C Rapid: 1.0 C	
7	Discharge current	Standard: 0.2 C Max: 6 A	Coninue discharge Coninue discharge
8	Standard charge	0.2C CC (constant current) charge to 4.2V/cell, then CV(constant voltage) 4.2V/cell charge 3.5hours or 52mA (0.02C) cut off.	
9	Rapid charge	1 C CC (constant current) charge to 4.2V/cell, then CV(constant voltage) 4.2V/cell charge 3.0hours or 52mA (0.02C) cut off.	
10	Max. charge current	3400 mAh	
11	Energy	12,58Wh	
12	Weight	Approx: 48±3g	
13	Operating Temperature	Charge: +10~45°C Discharge: -20~60°C	
14	Storage Temperature	-20~40°C	

4. Protection Circuit

NO.	Item	Criteria	NO.	Item	Criteria
1	Over-charge Protection Voltage	4.30±0.05V	7	Over current protection current	10±2A
2	Over charge release voltage	4.10±0.05V	8	Over current potection current delay time	≤20.00 ms
3	Over-charge detection delay time	50-200 ms	9	Short detection delay time	MAX 150-540us
4	Over-discharge protection Voltage	2.5±0.05V	10	Release Conditions	Cut load
5	Over discharge release voltage	2.9±0.10V	11	max continuous charge/discharge current	6A
6	Over-discharge detection delay time	80-245 ms	12	IR resistance	≤50 mΩ

