

1/	F.K	٠
٧	$\Gamma \Pi$	٠

DATE:

Li-ion Button-Cell Battery

Rechargeable 3.6V

Li-ion Button Battery **Specification**

160mAh

Model: LIR2450

Prepared By/Date	Checked By/Date	Approved By/Date

Important Notice

These data sheets contain information specific to batteries manufactured at the time of its publication.

Content herein do not constitute a warranty.

Copyright @Xtra-Power Battery .All rights reserved



VER:

DATE:

Li-ion Button-Cell Battery

---CONTENTS-

1	SCOPE	Pages
		0
2.	BATTERY PACK SPECIFICATION	Page3
3.	STANDARD TEST CONDITIONS	Page3
4.	APPEARANCES ·····	Page4
5.	ELECTRICAL CHARACTERISTICS·····	Page4
6.	TEMPERATURE ADAPTABILITY	Page5
7.	DESTROY ADAPTABILITY	Page5
8.	CAUTIONS IN USE	Page5
9.	Dimension	Page6



Li-ion Button-Cell Battery

VER:

DATE:

1. SCOPE

This specification describes the related technical standard and requirements of the rechargeable Li-ion battery pack supplied by Xtra-Power Battery.

Battery produced with the LIR2450 cell will meet the specification.

2. BATTERY SPECIFICATION

ITEMS	SPECIF	REMARK	
Model	LIR		
Constant Voltage	3. 6V		
Capability	Typical	170mAh	- @0.2C Discharge
Capability	Minimum	160mAh	WO. 2C DISCHAIGE
Dimensions	Φ 24. 5 (+0. 3) *5. 0 (+0. 3) mm		Bare cell
Weight	6. $5(\pm 0.2) g$		

3. STANDARD TESTING CONDITIONS (No Load)

·-	OTTENDING TEC	711110 00111	71110110 (110	2040,	
	ITEMS			REGISTER	
	General charge. CC/CV mocurrent0 Apace charge CC/CV mocurrent0 CC/CV mocurrent0		CC/CV model, constant voltage4.2V, constant current0.2C, end current 0.01C		
			CC/CV model, constant voltage4.2V, constant current0.5C, end current0.01C		
				l, constant voltage4.2V, constant, end current 0.01C	
	Standard dis	charge	Constant current 0.2C, end voltage2.75V		
	General discharge		Constant current 0.5C, end voltage 2.75V		
	Apace discharge Co.		Constant cu	rrent 1C, end voltage 2.75V	
		Charge		0 +45°C	
		Discharge		-20°C +60°C	
				One month -20°C +55°C	
	Environment	Storage temperature General temperature		Three months -20°C $+45^{\circ}\text{C}$	
	temperature			One year −5°C −− +30°C	
				20℃±5℃	
		Atmospheric pressure		86 106Kpa	
		Relative humidity		45% 85%	



Li-ion Button-Cell Battery

DATE:

VER:

4. APPEARANCES

ITEMS	TEST CONDITION	REQUIRE	
APPEARANCE	Under light lamp 40W	Shall be free noticeable flaws breaks, age, Discoloration, deformation, uneven, and other Defects which impair the value of the commodity	

5. ELECTRICAL CHARACTERISTICS

ITEMS	TEST CONDITION	REQUIRE
Complete Charge	The battery is charged with constant current 0.2CmA and constant voltage 4.2v until the charging current is less than 0.01CmA. The longest charging time is less than 8 hours.	
Initial capacity		
Cycle life	Cycle life The capacity measured after 500 cycles of complete charge and discharge at 0.2C current to 2.75V cut-off.	
Impedance	Internal resistance measured at 1KHz after complete charge.	

6. TEMPERATURE ADAPABILITY

ITEMS	TEST CONDITION	REQUIRE
High temperature discharge	After complete charge, at $60^{\circ}\!$	No explosion, fire, or smoke. Discharge efficiency ≥85%.
High temperature exposure	temperature being tested are stored in chamber of $150 ^{\circ}$ C for 10 min. After taking the	
Low temperature discharge After complete charge. At -20°C, discharging current 0.2CmA to2.75V-discharge.		No explosion, fire, or smoke. Discharge efficiency ≥80%.



VER:

DATE:

Li-ion Button-Cell Battery

7. DESTROY ADAPTABILITY

ITEMS		TEST CONDITION	REQUIRE
Vibratio Test	on	Subject to 1 hour 10-55Hz 3.5mm amplitude Vibration for any direction at shipment (complete packing) state. Then test discharge and rated charge at 25±2℃.	No explosion, fire or Smoke. No leakage or damage
Drop Te	st	Drop test battery 1.2m above steel board of more than 10mm thickness. One time drop each for 6 surface, 4 ride direction of a battery pack	No leakage or damage No explosion, fire or Smoke. Discharge time Less than 50 minute.

8. CAUTIONS IN USE

To ensure proper use of the battery please read the manual carefully before using it.

. Handling

- Do not expose to, dispose of the battery in fire.
- Do not put the battery in a charger or equipment with wrong terminals connected.
- Avoid shorting the battery
- Avoid excessive physical shock or vibration.
- Do not disassemble or deform the battery.
- Do not immerse in water.
- Do not use the battery mixed with other different make, type, or model batteries.
- Keep out of the reach of children.

. charge and discharge

- Battery must be charged in appropriate charger only.
- Never use a modified or damaged charger.
- Do not leave battery in charger over 24 hours.

. storage

• Store the battery in a cool, dry and well-ventilated area.

disposal

 Regulations vary for different countries. Dispose of in accordance with local regulations.

