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Li-ion Button-Cell Battery

DATE:

Rechargeable 3.6V

Li-ion Button Battery **Specification**

160mAh

Model: LIR2477

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.

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VER:

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---CONTENTS-

1.	SCOPE	•Page3
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
	CAUTIONS IN USE·····	_
9.	Dimension	·Page6



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DATE:

VER:

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 LIR2477 cell will meet the specification.

2. BATTERY SPECIFICATION

ITEMS	SPECIF	REMARK	
Model	LIR 2477		
Constant Voltage	3. 6V		
C 1:1:4	Typical	170mAh	@0.2C Discharge
Capability	Minimum	160mAh	eo. 20 Discharge
Dimensions	Φ 24. 5 (+0. 3) *7. 7 (+0. 3) mm		Bare cell
Weight	$7.0(\pm 0.2) \mathrm{g}$		

3. STANDARD TESTING CONDITIONS (No Load)

٠.	. Difficultie Testing Conditions (no boda)			
	ITEMS			REGISTER
	Standard charge		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 CC/CV model, constant voltage4.2V, constant current 1C, end current 0.01C	
	General charge.			
	Apace charge			
	Standard dis	rd discharge Constant current 0.2C, end voltage2.75V		
	General discharge		Constant current 0.5C, end voltage 2.75V	
	Apace disch	ace discharge Constant cu		rrent 1C, end voltage 2.75V
	Charge		arge	0 +45℃
		Disc	charge	-20°C +60°C
				One month -20°C +55°C
	Environment temperature	Storage temperature		Three months -20°C $+45^{\circ}\text{C}$
				0ne year −5°C −− +30°C
		General temperature		20℃±5℃
		Atmospheric pressure		86 106Kpa
		Relative humidity		45% 85%



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4. APPEARANCES

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

5. ELECTRICAL CHARACTERISTICS

ITEMS	TEST CONDITION	REQUIRE
Complete Charge	-	
The capacity measured after the battery is discharged with constant current 0.2C until the voltage reaches 2.75V cut-off in one hour after complete charge.		170mAh
Cycle life The capacity measured after 500 cycles of complete charge and discharge at 0.2C current to 2.75V cut-off.		Capacity more than 70% of Initial capacity
Impedance Internal resistance measured at 1KHz after complete charge.		≤500m Ω

6. TEMPERATURE ADAPABILITY

ITEMS	TEST CONDITION	REQUIRE
High temperature discharge	temperature discharging current 0.2C to 2.75V-END	
High temperature exposure	After relative charge, all batteries being tested are stored in chamber of 150°C for 10 min. After taking the batteries out of the chamber, all the batteries are visually examined.	No explosion, fire, or smoke.
Low temperature discharge	temperature After complete charge. At -20°C, discharging current 0 2CmA to 2 75V-END	



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7. DESTROY ADAPTABILITY

ITEMS	TEST CONDITION	REQUIRE
Vibration Test	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 Test	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.

