Rechargeable 3.6V

Li-ion Button Battery
Specification

6mAh

Model: LIR0732

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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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 LIR0732 cell will meet the specification.

2. BATTERY SPECIFICATION

ITEMS	SPECIFICATION		REMARK
Model	LIR 0732		
Constant Voltage	3.6V		
Capability	Typical	7mAh	@0.2C Discharge
	Minimum	6mAh	
Dimensions	Φ7.85(+0.3)*3.2(+0.3)mm		Bare cell
Weight	0.5(±0.2)g		

3. STANDARD TESTING CONDITIONS (No Load)

ITEMS	REGISTER
Standard charge	CC/CV model, constant voltage4.2V, constant current0.2C, end current 0.01C
General charge.	CC/CV model, constant voltage4.2V, constant current0.5C, end current0.01C
Apace charge	CC/CV model, constant voltage4.2V, constant current 1C, end current 0.01C
Standard discharge	Constant current 0.2C,end voltage2.75V
General discharge	Constant current 0.5C,end voltage 2.75V
Apace discharge	Constant current 1C,end voltage 2.75V

Environment temperature	Charge	0 -- +45℃
	Discharge	-20℃ -- +60℃
	Storage temperature	One month -20℃ -- +55℃
		Three months -20℃ -- +45℃
		One year -5℃ -- +30℃
	General temperature	20℃±5℃
	Atmospheric pressure	86 -- 106Kpa
	Relative humidity	45% -- 85%

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	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.	7mAh
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.	≤5000mΩ

6. TEMPERATURE ADAPABILITY

ITEMS	TEST CONDITION	REQUIRE
High temperature discharge	After complete charge, at 60℃ , discharging current 0.2C to 2.75V-END discharge.	No explosion, fire, or smoke. Discharge efficiency ≥85%.
High temperature exposure	After relative charge, all batteries being tested are stored in chamber of 150℃ 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	After complete charge. At -20℃, discharging current 0.2CmA to2.75V-END discharge.	No explosion, fire, or smoke. Discharge efficiency ≥80%.

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

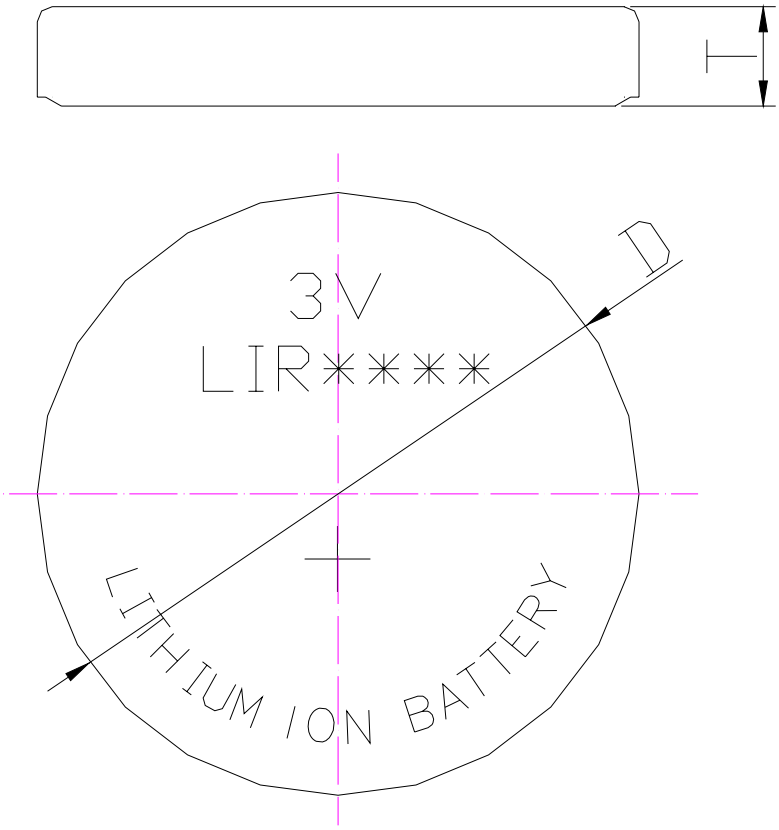
- Regulations vary for different countries. Dispose of in accordance with local regulations.

Li-ion Button-Cell Battery

VER:

DATE:

Edition NO.	Date	Sign	Checked



D	7.85+0.3	T	3.2+0.3	UNIT	mm

Drawer		Checked		Approved		Date	

Xtra-power

LIR 0732 DRAWING

Drawing ID