Product Safety Data Sheet

1. Products and Company Information

Product Identification: B2XR LI-ION Rechargeable Battery Pack
Product No.: 8390-M301-0580/8390-M301-058C/8390-M302-0580/8390-M302-058C Customer P/N.: B2XR
Names, addresses, and phone numbers of the manufacturer or supplier: FU GANG ELECTRONIC (KUNSHAN)CO.,LTD.. No.6 Zheng Wei Road, Jin Xi Town, Kun Shan City, Jiang Su Province, China Tel: 886-512-5723-5288 Fax: 886-512-5722-5355
Emergency contact phone numbers/fax numbers:1-703-527-3887
Issued or revised date: 2018/4/24
Reference Number:

2. Composition identification

A.Li-ion single cell :

Manufacture	Type	Voltage(v)	Capacity(mAH)	Lithium weight(g)
LG	INR18650HG2	3.6	2850	0.855

B.Battery Pack :

Battery Name	Voltage(v)	Capacity(mAH)	Lithium weight(g)	Watt-Hour(Wh)
B2XR	46.8	5700	22.23	267

3. Hazards identification information

Hazardous Effect: It may cause heat generation or electrolyte leakage if battery terminals contact with other metals. Electrolyte is flammable. In case of electrolyte leakage, move the battery from fire immediately.
Toxicity Effect: Vapor generated from burning batteries, may make eyes, skin and throat irritate.
Hazard classification of the product: Not applicable for regulated class

4. First-Aid Measures

The product contains organic electrolyte. In case of electrolyte leakage from the battery pack, actions described below are required.

- Inhalation: Remove to fresh air immediately. Take a medical treatment.
- Skin contact: Wash the contact areas off immediately with plenty of water and soap. If appropriate procedures are not taken, this may cause sores on the skin.
- Eye contact: Flush the eyes with plenty of clean water for at least 15 minutes immediately, without rubbing. Take a medical treatment. If appropriate procedures are not taken, this may cause an eye irritation.
- Ingestion: Drink milk or water and induce vomiting. Take a medical treatment.

IF EXPOSURE TO INTERNAL MATERIALS WITHIN CELL DUE TO DAMAGE OUTER CASING, THE FOLLOWING ACTIONS ARE RECOMMENDED.

5. Fire-Fighting Measures

Extinguishing method: Since vapor, generated from burning batteries may make eyes, nose and throat irritate, be sure to extinguish the fire on the windward side. Wear the respiratory protection equipment in some cases.
Fire extinguishing agent: Dry chemical, alcohol-resistant foam, carbon dioxide and plenty of water are effective.

6. Accidental release measures

Personal precautions: Take up with absorbent cloth
Environmental precautions: Move the battery away from the fire.
Methods for cleaning up: On Land: Place material into suitable containers and call local fire/police department. In Water: If possible, remove from water and call local fire/police department.

7. Handling and Storage Measures

-When packing the batteries, do not allow battery terminals to contact each other, or contact with other metals. Be sure to pack batteries by providing partitions in the packaging box, or in a separate plastic bag so that the single batteries are not mixed together. -Use strong material for packaging boxes so that they will not be damaged by vibration, impact, dropping and stacking during their transportation. Do not let water penetrate through packaging boxes during their storage and transportation.. -Do not store the battery in the high temperature, exceeding 60℃ / 140℉or under sunlight or in front of a stove. High humidity place is prohibited. Be sure that battery do not to expose outside to water and not store under frozen condition.

8. Exposure Controls Measures

Engineering control: Provide appropriate ventilation system such as local ventilator in the storage place.
Personal protective equipment: • Respiratory protection: Not necessary under normal use. • Hand protection: Not necessary under normal use. • Eye protection: Not necessary under normal use. • Skin and body protection: Not necessary under normal use.

9. Physical and Chemical Properties

Physical state: Solid	Form: Rectangle
Color:Black	Odor: N/A
PH value: N/A	Boiling point/boiling range: N/A
Decomposition temperature: N/A	Flashpoint: N/A

	Test method: Open cup: Close cup:
Auto ignition temperature: N/A	Explosion limits : Approximately over 90℃ / 194℉
Vapor pressure: N/A	Vapor density: N/A
Density: N/A	Solubility: N/A

10. Stability and Reactivity

Battery itself remains a chemical reaction, and they are always considered a chemical product. Battery, sorted for a long period without using, will occur a possibility of deterioration. In addition, when the various usage conditions: charge, discharge, and ambient temperature, etc. do not conform with specification, the life expectancy of the battery may be shortened or may happen electrolyte leakage.

11. Toxicological Information (in case of electrolyte leakage from the battery)

Acute toxicity : Oral（rat） LD50 >2g/kg (estimated)
Local effects: Irritating to eyes and skin.
Sensitization: Not specified.
Chronic toxicity or long-term toxicity: Not specified.
Specific effects: Not specified.

12. Ecological Information

The battery can be disposable in a accordance with appropriate federal,state and locad regulations , However, we recommend recycling, since these cells contain recyclable material(LiCoO2).

13. Waste Disposal Measures

-When the battery is worn-out, proper handling that has to follow the ordinance of each local government or the law issued relating government.

-Disposal of the worn-out battery may be subjected to Collection and Recycling Regulation.

14. Transport Information

Regulations for Transport:

- IATA: Dangerous Goods Regulations, 59th Edition,Un no:3480,SPA154, A88&A99

  Package instruction section IB of 965 for lithium_ion battery,SoC<30%
- ICAO: Technical Instructions for the safe transport of dangerous goods by air (2018-2019Edition)
- IMDG: Meet the SP188 clause

15. Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200)

_____Hazardous _____∨_____Non-hazardous

16. Other Information

1. Lithium_ion batteries containing no more than 1.5g/cell and 8g/battery pack and also power Is no more than 20Wh/cell and 100Wh/battery pack of lithium can be treated as “Non-dangerous Goods” under the united nations recommendations on the transport of dangerous goods,special Products from short_circuit.

2. Production of psds proving UN Manual of test and Criteria,Part Ⅲ,sub-section 38.3 is met.

No	Item	Result	Remark
1	Altitude simulation	Pass	
2	Thermal test	Pass	
3	Vibration	Pass	
4	Shock	Pass	
5	External short circuit	Pass	
6	Impact	Pass	For cell only
7	Overcharge	Pass	
8	Force discharge	Pass	For cell only

3.According to PI965,The package gross must less than 10kgs.