

Lithium(NCM) Battery Pack **Specification**

Model No. : K-LFP-12-7.5 (%V7.5Ah)





Directory

1. Preface	3
2. Product and Model	
3. Battery Pack Specifications	3
4. Standard Test Conditions	4
5. Characteristics	5
6. Characteristics Curve	5
7. Cautions	6





1. Preface

This specification describes the type and size, performance, technical characteristics, warning and caution of the SESQUE 2-7.5AFGV7.5Ah) Lithium(NCM) rechargeable battery pack. The specification only applies to SESOUE 2-7.5 (FGV7.5Ah) Lithium (NCM) rechargeable battery pack supplied by Fusion Battery.

2. Product and Model

2.1 Product: K-LFP-12-7.5/QGV7.5Ah) Lithium (NCM) Battery Pack 2.2 System Configuration:



Charge/Discharge	Charging	DC5.5*2.1 10	100 i 10mm
Charge/Discharge	Discharge		100+10111111



3. Battery Pack Specifications

Items	Standard	Comments	
Nominal voltage	1G/	3S	
Typical capacity	7.5Ah	At 0.2C discharge rate	
Max continuous discharge current	4A		
Discharge cut-off voltage	About 9V		
Charge input voltage	12.6±0.05V	Charge mode: CC/CV , Use a constant current, constant voltage(CC/CV)	
Charge current	ЗА		
Inner resistance	≤95mΩ	Between positive and negative polar	
	Charge/ Discharge	0°C ~ +45°C/-20°C ~ +60°C	
Operation temperature range	Discharge	When the environment temperature is higher than 45°C, please pay attention to ventilation and heat rejection.	
Storage temperature range	0°C ~ 40°C (Capacity 80%)	Recommended long-term storage temperature is 15~25°C	
Humidity	5%≤RH≤85%		
Cabinet Material	ABS		
Total Weight	Approx 0.45±0.05Kg		
Size (L*W*H)	110*80*45±2mm		
Protection function	Over charge protection, Over discharge protection, Over current protection, Short circuit protection, Temperature protection.		

4. Standard Test Conditions

All test in this specification should be in standard atmospheric conditions: temperature:

25± 5°C, relative humidity: 65±20%.



5. Characteristics

5.1 Standard charge

Charge the battery with the Battery special test cabinet, supply 12.6 voltage, constant-current 0.2C(A) current until current down to 0.02C (A).

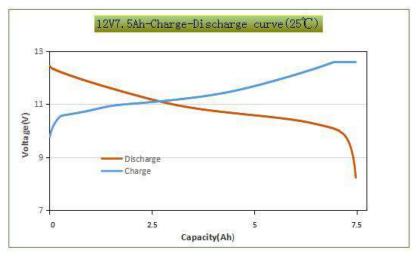
5.2 Standard discharge

Discharge the battery at 0.2C (A) to 9 V or battery cut off voltage.

5.3 Electrical Performance

Test Items	Test Methods	Test Standards
Capacity retention rate	After standard charge under 5.1 specified conditions, store the cells for 28 days, then discharge at 0.2C (A) to cut-off voltage.	Capacity retention rate≥80%
Cycle Life	1) Standard charge at 0.2C (A) , 2) Rest 0.5~1 h 3) Discharge at 0.2C to cut off voltage 4) Capacity retention rate≥80%	>500cycles @ 100% DOD; >800cycles @ 90% DOD; >1000cycles @ 80% DOD;

6.Characteristics Curve





7. Cautions

- 7.1 Charging current should not be more than maximum charge current specified in the Product Specification, Charging current bigger than recommended current may damage the battery;
- 7.2 Discharging current should be no more than maximum discharge current specified in the Product Specification; Discharging current bigger than recommended discharge current may damage the battery;
- 7.3 It should be noted that the cell would be possible to be at a over-discharged state by its self-discharge characteristics in case the cell is not used for long time. In order to prevent over-discharging, the cell shall be charged periodically to maintain between 10.8V and 11.4V (Recommended 3 months one cycle) .Over-discharging may causes loss of cell performance, characteristics, or battery functions;
- 7.4 Please charge the battery within 12 hours after use;
- 7.5 Battery storage environment follow the above conditions and in standard atmosphere, should be without strong magnet, no power, no static;
- 7.6 Do not reverse the polarity of the battery pack for any reason;
- 7.7 Do not short circuit the battery pack;
- 7.8 Do not reverse polarity charging;
- 7.9 Battery packs can be combined in series or in parallel according to the specification;
- 7.10 Do not immerse the battery pack in water or sea water, or get it wet;
- 7.11 Do not disassemble battery;
- 7.12 Do not expose the battery to extreme heat or flame;
- 7.13 Please use a compatible charger for charging;