



12.8V125Ah LiFePO4 Battery Pack Specification

LiFePO4 Battery Pack

Specification

Model No: LFP 12-125LBT



accu
SERVICE HOLLAND.NL

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CONTENT

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

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1. Preface

This specification describes the type and size, performance, technical characteristics, warning and caution of the 12.8V125Ah rechargeable battery pack. The specification only applies to 12.8V125Ah rechargeable battery pack.

2. Product and Model

2.1 Product: 12.8V125Ah LiFePO4 Battery Pack

2.2 System Configuration:

Standard pack:26650-4000-3.2V-4S32P



Charge/Discharge	Positive	M8 Terminal
	Negative	M8 Terminal

12.8V125Ah LiFePO4 Battery Pack Specification

3. Battery Pack Specifications

Items	Standard	Comments
Nominal voltage	12.8V	4S
Typical capacity	125Ah	At 0.2C discharge rate
Max continuous discharge current	150A	
Discharge cut-off voltage	About 10V	
Charge input voltage	14.6±0.05V	Charge mode: CC/CV, Use a constant current, constant voltage(CC/CV)
Charge current	≤62.5A	
Inner resistance	≤10mΩ	Between positive and negative polar
Operation temperature range	Charge/ Discharge	0°C~+45°C/-20°C~+60°C
	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	14.0kg±0.2kg	
Size (L*W*H)	335*175*190mm±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%.

12.8V125Ah LiFePO4 Battery Pack Specification

5. Characteristics

5.1 Standard charge

Charge the battery with the Battery special test cabinet, supply 14.6 voltage, constant-current 0.2C(A) current until current down to 0.02C (A) .

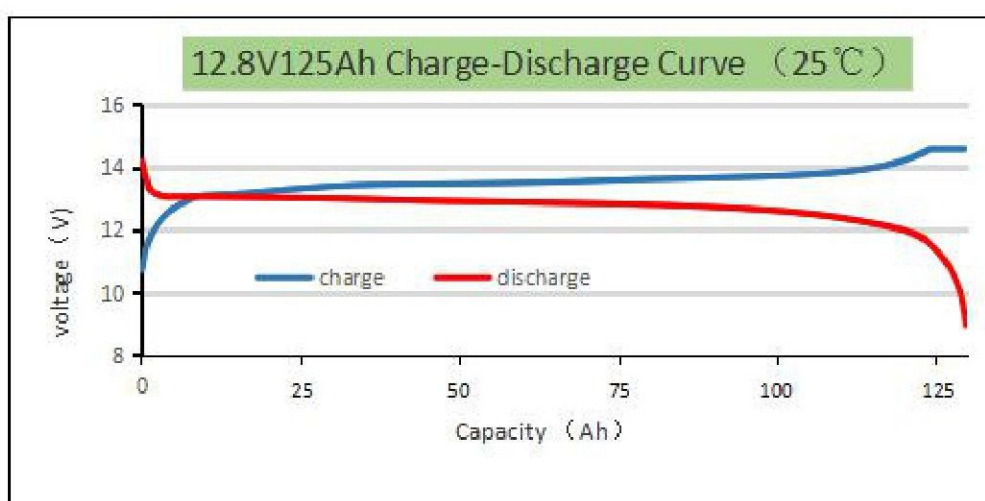
5.2 Standard discharge

Discharge the battery at 0.2C (A) to 10V 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%	>2000cycles @ 100% DOD; >3000cycles @ 90% DOD; >4000cycles @ 80% DOD;

6.Characteristics Curve



12.8V125Ah LiFePO4 Battery Pack Specification

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 13.2V and 13.6V (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;