LiFePO4 Battery Pack

Specification

Model No: LIT25.6-200(25.6V200Ah)

Designed	Checked	Approved

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1. Preface

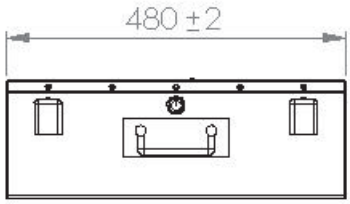
This specification describes the type and size, performance, technical characteristics, warning and caution of the LIT25.6-200(25.6V200Ah) LiFePO4 rechargeable battery pack. The specification only applies to LIT25.6-200(25.6V200Ah) LiFePO4 rechargeable battery pack supplied by ENDESAN IC VE DIS TICARET LTD.STI

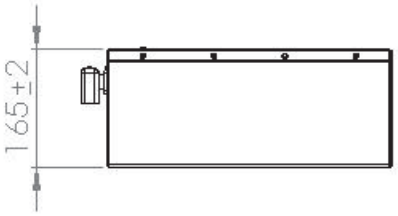
2. Product and Model

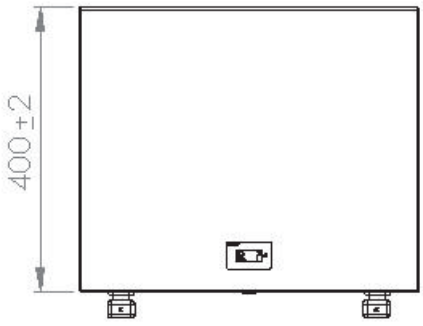
2.1 Product: LIT25.6-200(25.6V200Ah) LiFePO4 Battery Pack

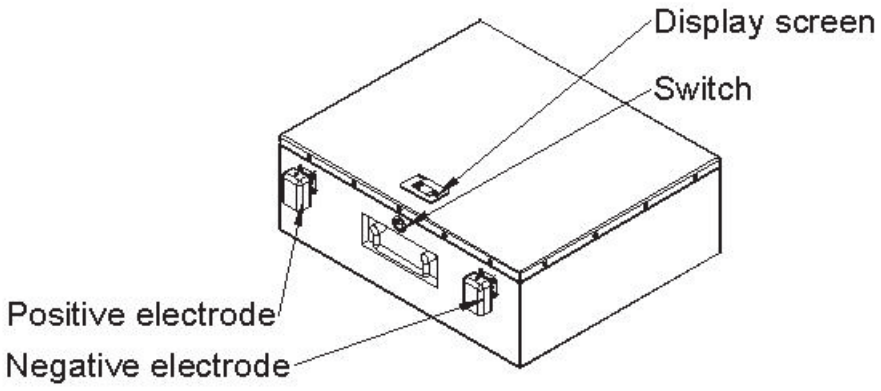
2.2 System Configuration:

Standard Pack: LIT50300115-200Ah-3.2V-8S1P









Charge/Discharge	Positive	M8 Terminal
	Negative	M8 Terminal

3. Battery Pack Specifications

Items	Standard	Comments
Nominal Voltage	25.6V	8S
Typical Capacity	200Ah	At 0.2C discharge rate
Continuous Discharge Current	⩽100A	
Discharge Cut-off Voltage	About 20V	
Charge Input Voltage	29.2±0.2V	Charge Mode: CC/CV. Use a constant current, constant voltage(CC/CV)
Charge Current	≤50A	
Operation Temperature Range	Charge/Discharge	0℃~+45℃/-20℃~+60℃
	Discharge	When the environment temperature is higher than 45℃, please pay attention to ventilation and heat rejection.
Storage Temperature Range	0℃~40℃ (Capacity 80%)	Recommended long-term storage temperature is 15~25℃
Humidity	5%≤RH≤85%	
Cabinet Material	Metal Case	
Total Weight	Approx. 43Kg±2Kg	
Size	(480*400*165mm)±2mm	
Protection Function	Over charge protection, Over discharge protection, Over current protection, Short circuit protection, Temperature protection.	
Function	Bluetooth!Display screen	

4. Standard Test Conditions

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

Temperature: 25± 5?, Relative Humidity: 65±20%.

5. Characteristics

5.1 Standard Charge

Charge the battery with the battery special test cabinet, supply 29.2 voltage, constant-current 0.2C(A) current until current down to 0.02C(A).

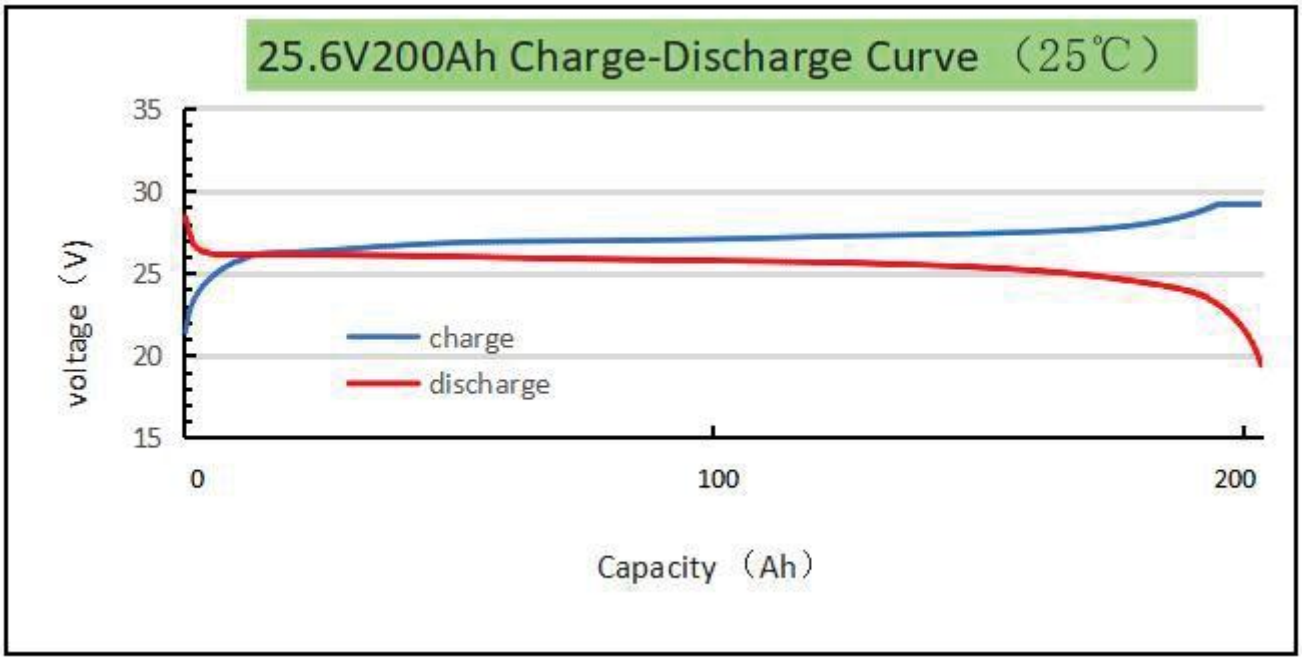
5.2 Standard Discharge

Discharge the battery at 0.2C(A) to 20V 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 @ 200% DOD; >3000cycles @ 90% DOD; >4000cycles @ 80% DOD;

6. Characteristics Curve



7. BMS Specification

Item	Parameter			Remark
Charging Voltage	29.2V			
Charging Model	CC-CV			
Maximum Charging Current	100A			
Continuous Discharge Current	100A			
The following is the core protection function for cell:				
	Minimum Value	Typical Value	Maximum	
Over charge detection voltage	3.65	3.70	3.75	V
Overcharge release voltage	3.35	3.40	3.45	V
Over discharge detection voltage	2.15	2.20	2.25	V
Over discharge release voltage	2.65	2.70	2.75	V
Over discharge current value	190	200	210	A
Overcharge detection delay time	200	500	800	mS
Delay time of over voltage detection	200	500	800	mS
Over current detection delay time	200	1000	1800	mS
Balance Voltage	/	3.4	/	V
Balance Current	70	100	130	mA
Self-Consumption	/	/	800	uA
Temperature Protection				
	Typical Value	Tolerance Value	Delay	Remark
Protect the Temperature	55	±5		?
Recovery Temperature	50	±5		?
Low Temperature Protection	0	±5		?
Cryogenic Release	5	±5		?

Charging

Protect the Temperature	Discharge	65	±5		?
Recovery Temperature		55	±5		?
Low Temperature Protection		-20	±5		?
Cryogenic Release		-15	±5		?

8. Cautions

8.1 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;

8.2 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;

8.3 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 26.4V and 27.2V(Recommended 3 months one cycle).Over-discharging may causes loss of cell performance, characteristics, or battery functions;

8.4 Please charge the battery within 12 hours after use;

8.5 Battery storage environment follow the above conditions and in standard atmosphere, should be without strong magnet, no power, no static;

8.6 Do not reverse the polarity of the battery pack for any reason;

8.7 Do not short circuit the battery pack;

8.8 Do not reverse polarity charging;

8.9 Battery packs can be combined in series or in parallel according to the specification;

8.10 Do not immerse the battery pack in water or sea water, or get it wet;

8.11 Do not disassemble battery;

8.12 Do not expose the battery to extreme heat or flame;

8.13 Please use a compatible charger for charging;