



EVE Energy Co., Ltd.

File NO.

RD-FP389-M4-S02-07B-LF

Version

B

Project Phase

K0 M1 M2 M3
M4 M5 M6

Technical Status

A Sample B Sample
C Sample D Sample

Product Model

FP389

File Name

Product Specification

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Product Specification

Edited by/ Date	Reviewed by/ Date	Approved By / Date

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1 Law and regulation requirement of product

The customer's hazardous substance control requirements for this project are lower than the company's hazardous substance control standards. To comply with the EVE hazardous substance control requirements, the raw material supplier is required to provide a third-party RoHS test report to complete the product hazardous substance declaration. (The customer's hazardous substance control requirements for this project are higher than the company's hazardous substance control standards. To do hazardous substance control according to the material requirements confirmed by proofing, the raw material supplier is required to provide third-party RoHS, HF, and REACH test reports to complete the product hazardous substance declaration.)

The customer does not have HSF requirements, and the batteries can meet the requirements of the battery directive.

2 Specification of cell

No.	Item	Index	Remark
1	Cell type		
2	Cell specification	LF230/3.2V	
3	Rated voltage / Capacity of cell	3.2V/230Ah	173.93±0.5mm, 207.3±0.5mm, 53.85±0.4mm
4	Voltage range of cell	2.5V~3.65V	: 0.5C : 25±2°C
5	Internal resistance of cell	≤0.3mΩ	
6	Weight	4110±100g	
7	Energy density	179.08wh/kg	
8	Working temperature	-30°C ~60°C 0°C~60°C	



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9	Storage temperature (storage humidity ≤ 95% RH)	-20°C~45°C	≤ 1
		0°C~35°C	≤ 1
10	Charge retention	95% 97%	28 1.0C(A) 2.5V, 30min, 1.0C (A) 2.5V,
11	Number of cycle	≥35001C/1C, 80%C1st	(25±2) °C, 300kgf 夹 1.0C (A) 3.65V, 0.05C (A), 30min, 1.0C (A) 2.5V, 30min, 80%



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3 Test regulation of cell

NO.	Test type	Test item	Test specification	Test requirement	Sample size	Test duration
1	Factory inspection	Appearance	GB/T 31486-2015-6.2.1	The appearance shall be free of deformation and crack. The surface shall be free of burr, dryness, trauma and dirt, with clear and right marks		
2		Polarity	GB/T 31486-2015-6.2.2	Terminal polarity identification shall be correct and clear.		
3		Boundary dimension and weight	GB/T 31486-2015-6.2.3	The boundary dimension and weight of products shall meet the technical conditions of products provided by the enterprise.		
4		Discharge capacity and energy room temperature	GB/T 31486-2015-6.2.5	The discharge capacity shall not be lower than the rated capacity and shall not exceed 110% of the rated capacity, and the range of initial capacity of all test samples shall not be greater than 5% of the average value of initial capacity.		



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NO.	Test type	Test item	Test specification	Test requirement	Sample size	Test duration
5	Type inspection	Standard cycle life	GB/T 31484-2015-6.4	When the number of cycles reaches 500, the discharge capacity shall not be less than 90% of the initial capacity, or when the number of cycles reaches 1000, the discharge capacity shall not be less than 80% of the initial capacity.		
6		Over discharge	GB/T 31485-2015-6.2.2	During the over discharge test, there is no explosion, fire and liquid leakage.		
7		Over charge	GB/T 31485-2015-6.2.3	During the over charge test, there is no explosion, no fire.		
8		Short circuit	GB/T 31485-2015-6.2.4	During the over short circuit test, there is no explosion, fire and liquid leakage.		
9		Drop	GB/T 31485-2015-6.2.5	During the drop test, there is no explosion, fire and liquid leakage.		
10		Heat	GB/T 31485-2015-6.2.6	During the heating test, there is no explosion, no fire.		



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11		Extrusion	GB/T 31485-2015-6.2.7	During the extrusion test, there is no explosion, no fire.		
12		Needling	GB/T 31485-2015-6.2.8	During the seawater immersion test, there is no explosion, no fire.		
13		Seawater immersion	GB/T 31485-2015-6.2.9	During the seawater immersion test, there is no explosion, no fire.		
14		Temperature cycle	GB/T 31485-2015-6.2.10	During the temperature cycle test, there is no explosion, fire and liquid leakage.		
15		Low atmospheric pressure	GB/T 31485-2015-6.2.11	During the low atmospheric test, there is no explosion, fire and liquid leakage.		

Remark: 4 other cell sample should be stored as backup. Suggested test samples are those produced within 3 months.

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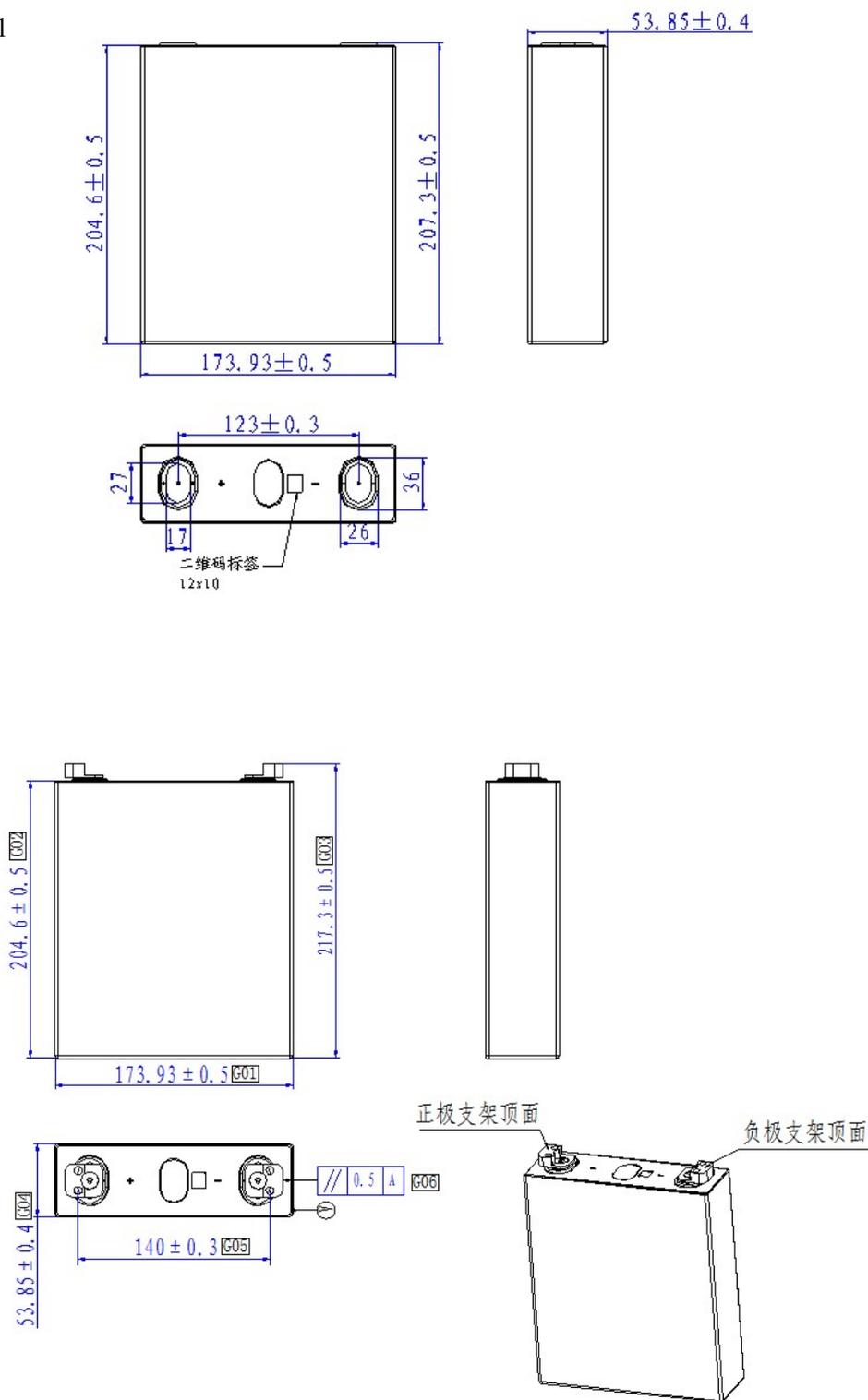
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4 Outline standard of cell



LF230