

# 37432 Project evaluation plan

37432项目评估方案

Date: 2023/07/21





目录

Contents







产品性能

Product performance



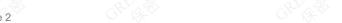
产品结构图

Product Structure



认证

Certification







### Cell parameters

#### 电芯参数



	No.		Item <b>项目</b>	GRP Specification <b>GRP规格</b>	Note <b>备注</b>	Schematic diagram <b>示意图</b>
Ć	01	Cell me 电 Cell		GRP7051071-1C-3050mAh		w3
	02	Thickn 厚度	<mark>less</mark>	6.7±0.2mm	Т;	W1 — W2 — L2
	03	Width 宽度		50±1.0mm	W;	
	04	Length 长度		70±1.0mm	L;	
S 乘	05	Weight 重量	t	51.0±2.0g		
		Tabs	Tabs Length 极耳宽度	5.0*0.1mm	W1、W2;	
	06	size 极耳	Tabs Width 极耳长度	10±1.0mm	L2;	
		规格	Tabs Center spacing 极耳中心距	30.0±1.0mm	W3;	
	07	Energy 能量密	Density E度	VED: 481.24Wh/L; GED: 221.28Wh/kg;		
	08	Mould 模具		YES		
						- W - T



#### cell work temperature:

		-50~50℃				
<del>之</del> 由 泪 <del>阵</del>		-20~0°C	(0.2C)			
充电温度		0~15°C	(0.5C)			
Charge Temperature		15~45°C	(1C)			
		-50~-40°C	(0.2C)			
放电温度		-40~20°C	(0.5C)			
Standard Discharge		20°C~50°C (1C)				
The state of the s	1. Char	ge: 0.2C to 42V , end current 0.02C				
	at 23°C:	±2°C; 2.Capacity comparison store at each				
-50°C:≥50%	tempera	rature for 4h , measured with constant				
-40°C:≥70%	dischar	ge current 0.2C with3.0V	cut-off. Percentage			
-30°C:≥80%	as an in	dex of the capacitycompared with 100% at				
-20°C: ≥90%	23°C±2	Č				
0℃:≥95%	1.在 23	『C ± 2 ℃条件下恒流恒压充电: 0.2C 充电				
25℃: 100%	25℃: 100% 至 4.2V, 限流 0.02C					
50°C:≥95%	2.在不同	温度条件搁置 4h 后, 用 0.2C 的电流恒				
	流放电至截止电压 3.0V。以 23℃±2℃时放电容 每为其准计省五分比。					

#### PACK performance





	No.		Item <b>项目</b>	Customer demand 客户需求	GRP Specification <b>GRP规格</b>	Note <b>备注</b>
*	01	Product model 产品型号		TBD	GRP7051071-1C-3050mAh_2S1P_7.4V	
	02	PACK size PACK 尺寸		TBD	MAX (T*W*L) 16.5*52.5*82.0mm	
	03	PACK weight PACK 重量		TBD	Approx: 120g	Reference Only 参考值
	04	PACK internal resistance PACK 内阻		TBD	Subject to actual production	Reference Only 参考值
	05	Capacity 容量	Typical Capacity 典型容量	TBD	3050mAh	0.2C, 23±2°C;
	03		Minimum Capacity 最小容量	TBD	3000mAh	4.20~3.2V (Cell);
Ç	06		Full charge Voltage 满充电压		4.2V	
		Voltage 电压			3.7V	
					3.2V	
			Transport Voltage 运输电压	TBD	3.75~3.90V	



### PACK performance





-									
	No.		Item <b>项目</b>	Customer demand <b>客户需求</b>		GRP Specification <b>GRP规格</b>			Note <b>备注</b>
3	07	Discharge current	Continuous Discharge 持续放电 A	4A		4A			laximum continuous value 大持续值
2		放电电流 加电电流	Pulse Discharge 脉冲放电 A	20A 1S		20A 1S			Iaximum pulse value 大脉冲值
	08	recharging current	Standard Charging 标准充电 A	TBD		0.61A			harging time: 7.5h; 色电时间: 7.5小时;
	08	充电电流	fast Charging 快速充电 A	TBD		3.05A			harging time: 1.5h; 色电时间: 1.5小时;
		range of working temperature 工作温度范围	充电温度 Charge Temperature		-20~0°C 0~15°C 15~45°C		(0.2C) (0.5C) (1C)		
	09				-50~-40°C		(0.2C)		
			放电温度	-40~20°C		(0.5C)			
			Standard Discharge		20°C~50°C (1C)				
		Storage temperature conditions 储存温度条件	Storage temperature 存储温度	TBD TBD		-20~35°C			
	10		Storage conditions 存储条件				SOC: > 3.9V*2; Time: < 7 Day;		Temperature: 23±5°C; 温度: 23±5°C; Humidity: ≤75%RH; 湿度: ≤75%RH;
			Storage conditions 存储条件 TBD			SOC: 3.7~3.9V*2; Time: > 7 Day;			
	Cycle life 循环寿命		TBD			0.5C Charge/4A Discharge, 150 Cycles≥80%;		.—	温度: 23±5℃ emperature: 23±5℃



## Parameter of PCM/保护板参数:



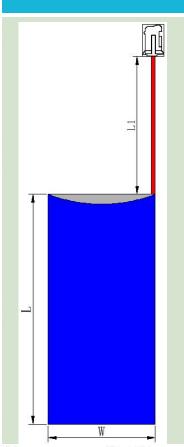


PACK 性能

No.	Item 项目	参数 Value	单位 Unit	Schematic diagram 示意图
01	过充保护电压/Over charge	/	V	3
02	过放保护电压/Over discharge	/	V	
03	过流保护/Overcurrent protection	/	A	
04	最大持续充电电流/Max continuous charging current	/	A	
05	最大持续放电电流/Max continuous discharge current	/	A	
06	短路保护/Short circuit protection	/		
07	均衡功能/Balance function	/		
08	自耗电/Self-consumption voltage	/	μΑ	
09	内阻/IR	/	mΩ	
10	热敏电阻/NTC and PTC	/	°C	
11	尺寸/Size	/	mm	
12	其它/other	/		



## Schematic diagram of finished product 成品示意图



Size: 16.5\*52.5\*82.0mm

Plug: JST-XHR-5P Reverse, 22# Silicone wire

out 40mm

The position of the wire: One side of the line

GREPOW THANK YOU