



UN38.3 Test Report

Samples Name LFP LITHIUM-ION BATTERY PACK

样品名称 磷酸铁锂电池组

Model

型号

V10

Applicant Shenzhen Voltsmile Energy Technology Co., Ltd

委托单位 深圳美华能源科技有限公司



广东科正技术服务有限公司 KSIGN(Guangdong) Testing Co., Ltd.

		Page 2 of 1	16 F	Report No.: KS2212S6262B01			
		al Infori 基本资料					
Sample Name 样品名称	LFP LITHIUM-ION BATPACK 磷酸铁锂电池组		Model Name 型号	V10			
Rating 标称	51.2Vd.c., 100Ah	3.8	Watt-hour 瓦时	5.12kWh			
Dimension 尺寸(T*W*L)	133.0*470.0*442.0 (mr	m)	Weight 重量	Appr.: 41.6kg			
Sample Status 样品状态	Good 良好		Sample Information 样品信息	Battery (16S1P) 电池 (16 串 1 并)			
Applicant 委托单位	Shenzhen Voltsmile Er 深圳美华能源科技有限		nology Co., Ltd	§**			
Applicant Address 委托单位地址	1st Building Excellence Shenzhen, 518000 Gu 深圳市福田区福田街道	angdong P	R. China	itian Road, Futian District, 广场大厦 2610			
Factory 生产工厂		Huizhou Voltsmile Energy Technology Co., Ltd 惠州美华能源科技有限公司					
Factory Address 生产工厂地址	4th Floor, Factory 3, Minhua Smart Home Drive System Park, No. 433 Xinhe Avenue, Daya Bay West District, Huizhou, Guangdong P.R. China 广东省惠州市大亚湾西区新荷大道433号敏华智能家居驱动系统园区3栋厂房第4层						
Factory Telephone 生产工厂电话	+86-755-23813800	Factory E 生产工厂		n.he@voltsmile.com			
Factory Web 生产工厂网址				N			
Test Method & Criterion 检验方法及判定标准	UNITED NATION "Red GOODS, Manual of Te 联合国《关于危险品货	st and Crite	eria " ST/SG/AC.10/11/				
Testing Laboratory 检测单位	KSIGN(Guangdong) Testing Co., Ltd. 广东科正技术服务有限公司 West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China 广东省深圳市宝安区沙井街道沙头社区民主九九工业区福源厂新厂房A区C栋一层西侧,518104						
Sample Receiving Date 收样接收日期	2023年01月02日	Test Date 测试日期	2023年01月02	2日至2023年01月20日			
Conclusion 测试结论	The samples has passed the test items of UNITED NATION "Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Test and Criteria " ST/SG/AC.10/11/Rev.7/Amend.1 38.3.受检样品通过联合国《关于危险品货物运输的建议书试验和标准手册》第七修订版,修正 1 第 38.3 节各项检测,检测结果合格。 Seal/签章: Date of issue/签发日期: 2023 年 01 月 31 日						

Tested By: 主检

Test Engineer

Checker: 审核 Project Engineer



Approver: 批准 Technical Director



Test Summary Lists 测试摘要列表						
Test No. 测试编号	Test Item 测试项目	Test Results 测试结果	Conclusion 本项结论			
T1	Altitude simulation / 高度模拟	See Appendix 1 见附表1	Passed \			
T2	Thermal test / 温度试验	See Appendix 2 见附表2	Passed 合格			
Т3	Vibration / 振动测试	See Appendix 3 见附表3	Passed 合格			
T4	Shock / 冲击测试	See Appendix 4 见附表4	Passed 合格			
T5	External short circuit / 外部短路	See Appendix 5 见附表5	Passed 合格			
TO.	Impact / 撞击	N/A 不适用	N/A 不适用			
7 T6	Crush / 挤压	See Appendix 6 见附表6	Passed 合格			
T7	Overcharge / 过度充电	See Appendix 7 见附表7	Passed 合格			
Т8	Forced discharge / 强制放电测试	See Appendix 8 见附表8	Passed 合格			
Remark 备注	Batteries or single cell batteries not e only as a component in another batt to overcharge test.	的圆柱形电芯。 buch, coin/button cells and cylindrical ce 纽扣电芯和直径不超过 18.0mm 的圆柱升 equipped with battery overcharge protectery or in equipment, which affords such 求只能作为部件用在另一个带过度充电保	形电芯。 tion that aredesigned for use protection, are not applicable			

Test Item 测试项目	Sample No. 样品编号	Sample State 样品状态		
T4 T5	B01~B02	At first cycle, in fully charged states 第1个充放电周期,完全充电状态		
T1~T5	B03~B04	After 25 cycles ending in fully charged states 第25个充放电周期,完全充电状态		
	C01~C05	At first cycle at 50% of the design rated capacity 第1个充放电周期 50%设计额定容量状态		
T6	C06~C10	After 25 cycle at 50% of the design rated capacity 第25个充放电周期 50%设计额定容量状态		
T-7	B05~B06	At first cycle, in fully charged states 第1个充放电周期,完全充电状态		
T7	B07~B08	After 25 cycles ending in fully charged states 第25个充放电周期,完全充电状态		
To //	C11~C20	At first cycle in fully discharged states 第1个充放电周期,完全放电状态		
T8	C21~C30	After 25 cycles ending in fully discharged states 第25个充放电周期,完全放电状态		

The above samples have been charged and discharged cycles by the factory as required before the test. 备注:以上样品在测试前已由工厂按要求进行充放电循环处理。

	Appendix 1 附表 1						
Test Items 测试项目	Altitude simul 高度模拟	ation					Service Control
1.1	Test procedur 测试步骤	re	/\	S)			
	Test cells and batteries shall be stored at a pressure of 11.6kPa or less for at least six hour at ambient temperature (20 ± 5 °C). Cells and batteries meet this requirement if there is no mass loss, no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states. 试验电芯和电池在环境温度(20 ± 5 °C)下,储存在小于等于11.6kPa的压力下至少六小时。 试验电芯或电池应无重量损失、无渗漏、无排气、无解体、无破裂和无燃烧,并且每个试验电芯或电池在试验后的开路电压不少于其在进行这一试验前电压的 90%(完全放电状态的试验电芯或电池除外)。						
1.2	Result 测试结果						>
Consulta Na	Before	测试前	After 测试后		Mass loss	Residual	T+
Sample No. 样品编号	Mass 样品质量 (kg)	Voltage 开路电压 (V)	Mass 样品质量 (kg)	Voltage 开路电压 (V)	质量损失 (%)	OCV 剩余电压 (%)	Test result 测试结果
B01	41.60	52.95	41.60	52.93	0.00	99.96	0
B02	41.54	52.94	41.54	52.91	0.00	99.94	O

Note: L- Leakage, V- Venting, D- Disassembly, R- Rupture, F- Fire,

52.91

52.93

O- No leakage, no venting, no disassembly, no rupture, no fire, no mass loss, change ratio is not less than 90 %.

52.88

52.91

0.00

0.00

99.94

99.96

0

0

41.50

41.57

注: L- 泄漏; V- 排气; D- 解体; R- 破裂; F- 起火;

41.50

41.57

O- 无泄漏、无排气、无解体、无破裂、无起火、无质量损失、电压比不小于 90 %。

B03

B04

	2	Appendix 2 附表 2	
Test Items 测试项目	Thermal test 温度试验		
2.1	Test procedure 测试步骤	, No.	72
	2°C, followed by storage for at I maximum time interval between be repeated until 10 total cycles stored for 24 hours at ambient of exposure to the test temperal Cells and batteries meet this redisassembly, no rupture and not testing is not less than 90% of i relating to voltage is not applicate 将电芯和电池在温度为72±2°C的少于6个小时,两个温度间的间温度为20±5°C的条件下放置24℃应为12小时。	be stored for at least six hours at a test tempore east six hours at a test temperature equal to a test temperature extremes in 30 minutes. The sare complete, after which all test cells and temperature (20±5℃). For large cells and but the extremes should be at least 12 hours. Equirement if there is no mass loss, no leakage of fire and if the open circuit voltage of each test soltage immediately prior to this procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and batteries at fully dischard back the hours. After the procedure able to test cells and back the hours. After the hours and hours. After the hou	-40±2℃. The his procedure is to batteries are to be atteries, the duration ge, no venting, no est cell or battery aftered. The requirement ged states. 40±2℃条件下贮存不足,然后,将其在环境试验温度的时间至少并且每个试验电芯
2.2	Nesuit 测试结果	No.	

Sample No. 样品编号	Before 测试前		After 测试后		Mass loss	Residual OCV	T4
	Mass 样品质量 (kg)	Voltage 开路电压 (V)	Mass 样品质量 (kg)	Voltage 开路电压 (V)	质量损失 (%)	剩余电压 (%)	Test result 测试结果
B01	41.60	52.93	41.60	52.65	0.00	99.47	0
B02	41.54	52.91	41.54	52.62	0.00	99.45	0
B03	41.50	52.88	41.50	52.61	0.00	99.49	0
B04	41.57	52.91	41.57	52.60	0.00	99.41	0

Note: L- Leakage, V- Venting, D- Disassembly, R- Rupture, F- Fire,

O- No leakage, no venting, no disassembly, no rupture, no fire, no mass loss, change ratio is not less than 90 %.

注: L- 泄漏; V- 排气; D- 解体; R- 破裂; F- 起火;

测试结果

O- 无泄漏、无排气、无解体、无破裂、无起火、无质量损失、电压比不小于 90 %。

- 84	5)	Page 6	of 16	Rep	oort No.: KS2	212S6262B01
The second secon			Appen 附表		100000011100		
Test Items 测试项目	Vibration 振动	V		1	W.		(2)
3.1	Test procedu 测试步骤	re		A.			12
	Cells and bat the cells in su sinusoidal was traversed in three mutuall be perpendic. The logarithm than 12kg (cells and reached. The increased unsagn is then made for cells and reached. The increased unsagn is then made for large batt. The amplitud until a peak a maintained u	small batteries: amplitude is the til a peak acceleration of 2gentil the frequency teries meet this no rupture and less than 90% o ltage is not applicate in the frequency teries than 90% of ltage is not applicate in the frequency teries than 90% of ltage is not applicate in the frequency teries than 90% of ltage is not applicate in the frequency teries than 90% of ltage is not applicate in the frequency of the	to faithfully to garithmic so yole shall be mounting poinal face. eep shall diffitteries), and from 7Hz a per maintained ration of 8gn ne frequency to a peak ac ned at 0.8mign occurs (apy is increased requirement no fire and if its voltage is cable to test 动台的台面」为一个循环,2次,每个方电芯和小电池	ransmit the vilveep between repeated 12 to sition of the confer for cells and for batteries who eak accelerated at 0.8mm (1 occurs (approximately 2 do 200Hz. if there is no rethe open circummediately procells and batter, 然后开始抗一个循环持续向共计 3 个小型)和质量超过	bration. The vile 7Hz and 200Hz and 200Hz. It is maintained at excursion and excursion are solved at excursion of 1gn is maintained excursion) are 25Hz). A peak at excursion are solved at excursion are solved at excursion are	bration shall be lz and back to lof 3 hours for directions of very a gross mass as of more the maintained untursion) and the latest acceleration of eakage, no very each test cell of eakage, no very e	ne a po 7Hz preach of ribration must as of not more an 12kg preached. The frequency relevation of a possible is reached. The preached of 2gn is then requirement results and the preached preached in the preached preached preached in the preached
3.2	振幅保持在 0 大加速度保持 对于大电池, 持在 0.8mm (度保持在 2gr 试验电芯或电	、电池,对数扫频 1.8mm (总偏移 1. 注在 8gn 直到频率 对数扫频为:从 (总偏移 1.6mm); 直到频率增加到 1.池应无重量损失 注后的开路电压不	6mm) 并增加增加到 200H 7Hz 开始保持增加频率直 1 200Hz。 、无渗漏、升	1频率直到最大 Hz。 寺 1gn 的最大 到最大加速度 E排气、无解化	加速度达到 8g加速度直到频率达到 2gn (频率	yn (频率约为 s 逐为 18Hz,然 约为 25Hz), 燃烧,并且每	50Hz),将最后将振幅保将最大加速 个试验电芯
Sample No.	Before	测试前	After	加力中亡	Mass loss	Residual	

(<u> </u>		11.00.00 (1.00.00 (1.00.00 (1.00.00 (1.00.00 (1.00.00 (1.00.00 (1.00.00 (1.00.00 (1.00.00 (1.00.00 (1.00.00 (1			HIS NOT THE PARTY OF THE PARTY		
B01	41.60	52.65	41.60	52.62	0.00	99.94	0
B02	41.54	52.62	41.54	52.60	0.00	99.96	0
B03	41.50	52.61	41.50	52.59	0.00	99.96	0
B04	41.57	52.60	41.57	52.57	0.00	99.94	0

Note: L- Leakage, V- Venting, D- Disassembly, R- Rupture, F- Fire,

O- No leakage, no venting, no disassembly, no rupture, no fire, no mass loss, change ratio is not less than

注: L- 泄漏; V- 排气; D- 解体; R- 破裂; F- 起火;

O - 无泄漏	局、无排气、无解体、无破裂、无起火、无质量损失、电压比不小于 90 %。					
	Appendix 4 附表 4					
Test Items 测试项目	Shock 冲击					
4.1	Test procedure 测试步骤					
	Test cells and batteries shall be secured to the testing machine by means of a rigid mount which will support all mounting surfaces of each test battery. Each cell or battery shall be subjected to a halfsine shock of peak acceleration of 150gn and pulse duration of 6milliseconds. Alternatively, large cells may besubjected to a half-sine shock of peak acceleration of 50gn and pulse duration of 11 milliseconds. Each battery shall be subjected to a half-sine shock of peak acceleration depending on themass of the battery. The pulse duration shall be 6 milliseconds for small batteries and 11 milliseconds for large batteries. The formulas below are provided to calculate the appropriate minimum peak accelerations. 将试验电芯和电池用坚硬的支架固定在试验装置上,支架支撑着每个试验电池的所有安装面;电芯经受峰值加速度 150gn 和脉冲持续时间 6ms 的半正弦波冲击;大电芯需经受峰值加速度 50gn 和脉冲持续时间 11ms 的半正弦波冲击;每个电池需经受半正弦波冲击的峰值加速度取决于电池的质量。小型电池的脉冲持续时间为 6ms,大型电池为 11ms。以下提供的公式用来计算适合的最小峰值加速度。					

	AIDED VICE AND	
Battery	Minimum peak acceleration	Pulse duration
Small batteries	150 gn or result of formula $\sqrt{\frac{100850}{\text{mass}^*}}$ Acceleration(gn)= $\sqrt{\frac{100850}{\text{mass}^*}}$ whichever is smaller	6 ms
Large batteries	50 gn or result of formula $ \frac{\sqrt{30000}}{\text{mass}^*} $ Acceleration(gn)= $ \frac{\sqrt{30000}}{\text{mass}^*} $ whichever is smaller	11 ms

Note: "*" Mass is expressed in kilograms

Each cell or battery shall be subjected to three shocks in the positive direction and to three shocks in the negative direction in each of three mutually perpendicular mounting positions of the cell or battery for a total of 18 shocks.

Cells and batteries meet this requirement if there is no mass loss, no leakage, no venting, no disassembly, no rupture and no fire and if the open circuit voltage of each test cell or battery after testing is not less than 90% of its voltage immediately prior to this procedure. The requirement relating to voltage is not applicable to test cells and batteries at fully discharged states.(NOTE: Mass is express in kilograms)

Report No.: KS2212S6262B01

每个电芯或电池须在三个互相垂直的电芯安装方位的正方向经受三次冲击,接着反方向经受三次冲击,总共经受 18 次冲击。

各试验电芯或电池应无重量损失、无渗漏、无排气、无解体、无破裂和无燃烧,并且每个试验电芯或电池在试验后的开路电压不少于其在进行这一试验前电压的 90% (完全放电状态的试验电芯或电池除外)。

4.2 Result 测试结果

Carrala Na	Before	Before 测试前		After 测试后		Residual	
Sample No. 样品编号	Mass 样品质量 (kg)	Voltage 开路电压 (V)	Mass 样品质量 (kg)	Mass loss 质量损失 开路电压 (V)	UNIX 100 000 000 000 000 000 000 000 000 00	Test result 测试结果	
B01	41.60	52.62	41.60	52.59	0.00	99.94	0
B02	41.54	52.60	41.54	52.58	0.00	99.96	0
B03	41.50	52.59	41.50	52.56	0.00	99.94	0
B04	41.57	52.57	41.57	52.53	0.00	99.92	0

Note: L- Leakage, V- Venting, D- Disassembly, R- Rupture, F- Fire,

O- No leakage, no venting, no disassembly, no rupture, no fire, no mass loss, change ratio is not less than 90 %.

注: L- 泄漏; V- 排气; D- 解体; R- 破裂; F- 起火;

O- 无泄漏、无排气、无解体、无破裂、无起火、无质量损失、电压比不小于 90 %。

	Page 9 of 16 Rep	ort No.: KS2212S6262B01				
200000000000000000000000000000000000000	Appendix 5 附表 5					
Test Items 测试项目	External short circuit 外部短路					
5.1	Test procedure 测试步骤					
	The cell or battery to be tested shall be heated for a period of time necession homogeneous stabilized temperature of 57 ± 4 °C, measured on the extime depends on the size and design of the cell or battery and should be documented. If this assessment is not feasible, the exposure time shall small cells and small batteries, and 12 hours for large cells and large be battery at 57 ± 4 °C shall be subjected to one short circuit condition with resistance of less than 0.1 ohm. This short circuit condition is continued for at least one hour after the cet temperature has returned to 57 ± 4 °C, or in the case of the large batter half of the maximum temperature increase observed during the test and	ternal case. This period of e assessed and be at least 6 hours for atteries. Then the cell or a total external ell or battery external case ries, has decreased by				
	value. The short circuit and cooling down phases shall be conducted at least at ambient temperature. Cells and batteries meet this requirement if their external temperature does not exceed 170℃ and there is no disassembly, no rupture and no fire within six hours of this test. 用于测试的电芯或电池外壳温度达到恒温57 ± 4 ℃后,再进行外部短路。短路的时间取决于电芯或电池的尺寸和设计,并需被评估和记录。如果这个评估无法进行,那么小电芯和小电池短路时间至少6小时,大电芯和大电池短路时间至少12小时。然后电芯或电池在57±4℃环境下经受一个阻值小于0.1Ω的外部电路短路。 电芯或电池温度到57±4℃之后,短路时间需持续1小时,大型电池短路温度下降到最大温升的一半并保持。短路和降温阶段至少应在环境温度下进行。电芯或电池的外壳温度应不超过 170℃,并且试验后6h 内应无解体、无破裂和无燃烧。					
5.2	Result 测试结果	246				
Sample No. 样品编号	Max. External Temperature 样品表面最高温度(℃)	Test result 测试结果				
B01	58.4	0				
B02	58.2	0				
B03	58.6	О				
B04	58.3	0				

Note: **D**- Disassembly, **R**- Rupture, **F**- Fire, **O**- No disassembly, no rupture, no fire, test sample external temperature does not exceed 170 °C.

注: D-解体; R-破裂; F-起火; O-无解体、无破裂、无起火,测试样品表面温度不超过 170 ℃。

Appendix 6 附表 6 □Impact撞击 Test Items 测试项目 図Crush挤压 Test procedure 6.1 测试步骤 A cell or component cell is to be crushed between two flat surfaces. The crushing is to be gradual with a speed of approximately 1.5cm/s at the first point of contact. The crushing is to be continued until the first of the three options below is reached. (a) The applied force reaches 13kN ± 0.78kN; (b) The voltage of the cell drops by at least 100mV; or (c) The cell is deformed by 50% or more of its original thickness. Once the maximum pressure has been obtained, the voltage drops by 100mV or more, or the cell is deformed by at least 50% of its original thickness, the pressure shall be released. Cells and component cells meet this requirement if their external temperature does not exceed 170 ℃ and there is no disassembly and no fire during the test and within six hours after this test. 将试验电芯或元件电芯放在两个平面之间挤压。挤压在第一个接触点以约 1.5cm/s 的速度慢慢进 行,直到下面三个选项之一达到为止: (a) 挤压力达到 13kN±0.78kN; (b) 电芯电压降至少达到 100mV; (c) 电池厚度和最初比较变形至少 50%。 一旦达到最大压力, 电压降超过 100mV 或者电芯变形超过 50%, 压力应该解除。 试验电芯或电池的组成电芯外部温度不超过 170℃,并且在试验过程中和试验后 6 小时内应无解 体、无破裂、无起火。 Result 6.2 测试结果 Sample No. Max. External Temperature Test result 样品编号 样品表面最高温度(℃) 测试结果 C01 0 24.5 C02 24.6 0 C03 24.1 0 0 C04 24.2 C05 24.3 0 C06 24.4 0 0 C07 24.2 C08 0 24.3 C09 0 24.6 C10 24.2 0

Note: **D-** Disassembly, **F-** Fire, **O-** No disassembly, no fire, test sample external temperature does not exceed 170 °C.

注: D-解体; F-起火; O-无解体、无起火,测试样品表面温度不超过 170°C。

Appendix 7 附表 7 Test Items Overcharge 过度充电 测试项目 Test procedure 7.1 测试步骤 The charge current shall be twice the manufacturer's recommended maximum continuous charge current. The duration of the test shall be 24 hours. The minimum voltage of the test shall be as follows: 充电电流必须是制造商建议的最大持续充电电流的两倍,测试时间为24小时。试验的最小电压如 When the manufacturer's recommended N/A charge voltage is not more than 18V, the 不适用 minimum voltage of the test shall be the lesser of two times the maximum charge voltage of the or 22V. Rechargeable batteries meet this requirement if there is no disassembly and no fire within seven days of the test. 如果厂家推荐的充电电压不超过 18V,则测试 电压是两倍的厂家推荐的最大充电电压或者 22V 之间的较小值。 试验样品在试验后7天内应无解体和无燃烧。 When the manufacturer's recommended The specified maximum charge voltage is 57.6V; charge voltage is more than 18V, the The specified maximum charge current is 100A: minimum voltage of the test shall be 1.2 The test voltage is 69.12V; times maximum charge voltage. The test current is 200A. Rechargeable batteries meet this 厂家规定的最大充电电压为 57.6V; requirement if there is no disassembly and no 厂家规定的最大充电电流为 100A; fire within seven days of the test. 测试电压为 69.12V; 如果厂家推荐的充电电压超过 18V, 本测试的 测试电流为 200A。 最小充电电压应该为 1.2 倍的厂家推荐的最大 充电电压。 试验样品在试验后7天内应无解体和无燃烧。 Result 7.2 测试结果 Sample No. Voltage Before test(V) Test result 样品编号 测试前开路电压(V) 测试结果 B05 52.94 0 52.92 0 **B06** 52.91 0 **B07** 52.93 0 B08 Note: D- Disassembly, F- Fire, O- No disassembly, no fire.

KSB_TRF No. UN38.3_R6

注: D-解体; F-起火; O-无解体、无起火。

Appendix 8 附表 8					
Test Items 测试项目	Forced discharge 强制放电	FI	- Juli		.60
8.1	Test procedure 测试步骤			~	7
	Each cell shall be forced discharged at ambient temperature by connecting it in series with a 12V D.C, power supply at an initial current equal to the maximum discharge current specified the manufacturer. The specified discharge current is to be obtained by connecting a resistive load of the appropriate size and rating in series with the test cell, each cell shall be forced discharged for a time interval (in hours) equal to its rated capacity divided by the initial test current (in ampere). Primary or rechargeable cells meet this requirement if there is no disassembly and no fire within seven days of the test. 每个电芯应在环境温度下与 12V 直流电源串联在起始电流等于制造商给定的最大放电电流的条件强制放电。指定的放电电流通过串联在测试电芯上的合适大小和功率的负载来获得,每个电芯的强制放电时间(小时)为额定容量除以初始电流(安培)。原电池或可再充电电池在试验后 7 天内应无解体和无燃烧。				
8.2	Result 测试结果				
Sample No. 样品编号	Voltage Before test 测试前开路电压(V)	Test result 测试结果	Sample No. 样品编号	Voltage Before test 测试前开路电压(V)	Test result 测试结果
C11	2.688	0	C21	2.675	0
C12	2.689	0	C22	2.676	0
C13	2.684	0	C23	2.674	0
C14	2.686	0	C24	2.669	0
C15	2.685	0	C25	2.667	0
C16	2.683	0	C26	2.668	0
C17	2.687	0	C27	2.673	0
C18	2.681	0	C28	2.671	0
C19	2.678	<u></u> 0	C29	2.677	0
C20	2.677	0	C30	2.672	0

Note: **D-** Disassembly, **F-** Fire, **O-** No disassembly, no fire. 注: **D-** 解体; **F-** 起火; **O-** 无解体、无起火

Photos of samples 样品图片



Figure 1 Front view of battery



Figure 2 Back view of battery

Photos of samples 样品图片



Figure 3 Front view of cell

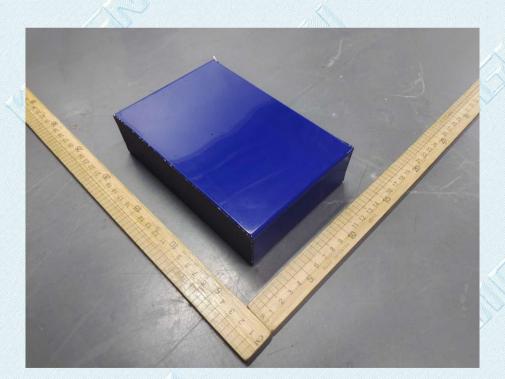


Figure 4 Back view of cell

Page 15 of 16

Report No.: KS2212S6262B01

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Photos of samples 样品图片

Model V10

Energy/Voltage 5.12kWh/51.2V Capacity 100Ah

Charge Voltage 56~57.6V

Dimension 442mm*470mm*133mm 01.01.2023 **Production Date:**

P LITHIUM-ION BATTERY PACK

IFpP50/175/122/[1P16S]M/-20+50/95

CHINA

SHENZHEN VOLTSMILE ENERGY TECHNOLOGY CO., LTD

WWW.VOLTSMILE.COM



S/N:V1048100ANCPC02301010001

Figure 5 Label view

Important Notice

注意事项

1. The report is invalid if it is not stamped with the "Testing Special Stamp" and the "Riding Seam Stamp".

报告未加盖"检测专用章"和"骑缝章"无效。

- 2. The test report is invalid without the signatures of Approver, Reviewer and Testing engineer. 本报告书无批准人、审核人、及主检人签名无效。
- 3. The test report can not be partially copied unless prior written approval is issued from our lab. 检测报告未经本实验室书面批准,不得部分复制。
- 4. The report is invalid when anything of following happens illegal transfer, reproduce, embezzlement, imposture, modification or tampering in any media form.

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5. Product information and customer information provided by the applicant, we are not responsible for its authenticity.

产品信息和客户信息由申请人提供,我们不对其真实性负责。

6. The test report is valid for the tested samples only.

本报告仅对本次测试样品有效。

7. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

如对本报告有异议,可在收到报告后15天内向本单位申诉,逾期不予受理。

检测单位: 广东科正技术服务有限公司

Laboratory KSIGN(Guangdong) Testing Co., Ltd.

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--- End of Report ---

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