JC24-2611 MSDS 编号: MSDS No. 中国认可 国际互认 检测 TESTING CNAS L0200 230020349717 化学品安全技术说明书 **MSDS** 可充电锂离子电池组 S31-LI-144-6400 14.4V 化学品名称: 5800mAh 83.52Wh **Rechargeable Lithium-ion Battery Pack Chemical Products** S31-LI-144-6400 14.4V 5800mAh 83.52Wh Name: 委托单位: 广州明美新能源股份有限公司 **Consignor:** TWS Technology (Guangzhou) Limited 中认尚动(上海)检测技术有限公司 CQC Standard Testing Technology (Shanghai) Co., Ltd

声明:

Statement:

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应题中位后志: Information of Testing Lab	
finormation of resting Lab	•
检验单位:	中认尚动(上海)检测技术有限公司
Testing Lab:	CQC Standard Testing Technology (Shanghai) Co., Ltd
地 址:	上海市桂菁路 19 号
A J.J.	No.19, Guijing Road, Shanghai, China
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Add: 邮政编码:	No.177 Guijing Koau, Shanghai, China
邮政编码:	200233
邮政编码: Post code:	200233
邮政编码: Post code: 电话:	200233 021-64335270(总机) 021-64954550
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化学品名称:	可充电锂离子电池组	S31-LI-144-6400	14.4V 5800mAh 83.52Wh
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Chemical products name:Rechargeable Lithium-ion Battery Pack S31-LI-144-6400 14.4V 5800mAh 83.52Wh

化学品名称 Chemical	中文 Chinese	可方	E电锂离子电池组 S31-LI-144	4-6400 14.4V 5800	0mAh 83.52Wh
products name	英文 Rechargeable Lithium-ion Battery Pac			k S31-LI-144-640	0 14.4V 5800mAh
1	English 83.52			2Wh	
	6		广州明美新能源股份有限	公司	
安九半位 Consignor		-	了州仍天利配你放伤有限 FWS Technology (Guangzhou)		
生产单位		-	广州明美新能源股份有限		
Manufacturer		-	TWS Technology (Guangzhou)		
测试方法 和判定标准	化学		支术说明书内容和项目顺序(3)
Test method and criterion	Safety data sheet fo	or chemic	cal products-Content and order	of sections (GB)	/T 16483-2008)
化学品外观 Chemical Products Appearance			蓝色塑料外衣 Blue plastic outerwear		
委托日期 Consignation date	2024.07.22		检查起讫日期 Test date	2024.07.	22-2024.07.22
检查项目 Inspection items	化学品名称和企业标识 Chemical product and company identification 、危险性概述 hazards identification、成分/组成信息 composition information、急救措施/First-aid measures 、消防 措施 Fire fighting measures 、泄漏应急处理 Accidental release measures 、操作处置与储存 Handling and storage 、接触控制与个人防护 Exposure controls /personal protection 、理化特性 Physical and chemical properties、稳定性和反应性 Stability and reactivity 、毒理学信息 Toxicological information 、生态学信息 Ecological information、废弃处置 Disposal information 、运输信息 Transportation information 、法规信息 Regulatory information 、其 它信息 Other information				
	按照 MSDS 的编写	要求化学	华品已全面描述.		
结论	Accordingly to the w	riting rec	quirements of MSDS, the chem	nical product has be	een fully described.
Conclusion	签发日期(issue date): 2024.07.22				
备注 Comments	P为Passed, N为Not applicable, F为False,"——"为Not applicable;				
委托单位地址 Consignor address	云三路 39 号 (1) Floor 1&2&3 ofB SciencePark,Guang	栋首层、 uilding (〔 zhouHi-〕	技术产业开发区科学城南 二层、三层 /1510663 1),No. 39NanYunSanRoad, Tech Industrial Development ty, Guangdong Province, P. R. ina	邮政编码 Post code	/

批准: 彭 彦 玲 Approver:

审核: 风保林木 Checker:

主检: 黄龙

Appraiser

MS	DS 编号:JC24-2611 DS No. 华品名称:可充电锂离子电池组	S21 I I 144 6400 14 AV 59	00m 4h 83 52W/h	第 2页 Page	共 5 页 2 of 5	
	mical products name:Rechargeab			800mAh 83.52Wh		
1	化学品名称和企业标识	名称		他组 S31-LI-144-640	00 14.4V 5800mAh	
	Chemical product and	Name		83.52Wh		
	company identification		Rechargeable Lit	nium-ion Battery Pack	x S31-LI-144-6400	
				4.4V 5800mAh 83.52V		
		生产单位		明美新能源股份有限		
		Manufacturer		chnology (Guangzhou	<i>.</i>	
		生产单位地址 中国广东省广州市广州高新技术产业开发区科学城南云				
		Manufacturer address三路 39 号 (1) 栋首层、二层、三层 /1510663Floor 1&2&3 of Building (1),No. 39NanYunSanRoad, Science				
				Ilding (1),No. 39Nan Y Tech Industrial Develo		
				ity, Guangdong Provir		
		应急联系	Guungzhou C	13738043854		
		Emergence Contact				
2	危险性概述	在正常状况下,按照制;		离子电池没有危险。	锂离子电池在滥用	
	Hazards identification,	的情况下会造成爆炸、				
		如氟化氢气体。				
		Lithium ion cells are no	t hazardous when use	d according to the inst	ructions of the	
		manufacturer under nor	mal conditions. There	is a risk of explode, r	upture, heat, or	
		leakage of internal com	ponents, which would	release hazardous ma	terials, for example,	
		HF gas.	-		-	
		接触症状:				
		皮肤接触:常规处理和	印使用时没有影响;接	触内部物质可能引起	昆灼伤。	
		眼睛接触: 常规处理和	中使用时没有影响;接触	触内部物质可能引起	灼伤。	
		吸入:常规处理和使用	目时没有影响;吸入释	放的气体可能引起灼	」伤。	
		Symptoms of exposure:				
		Skin contact: No effect	under routine handling	g and use, internal ma	terials may cause	
		burns. Eye contact: No effect u	under routine handling	and use internal mat	erials may cause	
		burns.				
		Inhalation: No effect un	der routine handling a	nd use, released gas n	5	
3	成分/组成信息 Composition information		nposition	含量 Quantity	CAS 编号 CAS-No.	
		Cobalt lithium mangar 镍钴锰酸锂	nese nickel oxide	34	182442-95-1	
		Graphite 石墨		18	7782-42-5	
		Electrolyte 电解液		17	N/AA	
		Copper Foil 铜箔		6	7440-50-8	
		Aluminum Foil 铝箔		18	7429-90-5	
		Other 其他		34	N/A	
4	急救措施	皮肤和眼睛接触及吸入				
	First-aid measures	食入:如果吞咽,立即				
		Skin contact, eye contact and inhalation: No hazard to health.				
		Ingestion: If swallow, get medical aid at once. 由于如志受措。加思控触到内部材料。建议采取以下刍動措施。				
		由于外壳受损,如果接触到内部材料,建议采取以下急救措施: 吸入:立即离开该区域,立即就医。				
		收入: 立即离开该区域, 立即弧医。 眼睛接触: 立即用水冲洗眼睛 15 分钟, 并就医。				
		皮肤接触:用肥皂和水立即清洗去除,并就医。 食入:喝牛奶/水,催吐,就医。				
		The following first aid i		only in case of exposi	are to interior battery	
					are to interior battery	
		components because of damage of the external battery casing. Inhalation: Leave area immediately and seek medical care.				
		Eye contact: Rinse immediately with plenty of water for at least 15Minutes, and seek				
		medical care.				

世漏应急处理 Accidental release neasures 操作处置与储存 Iandling and storage 妄触控制与个人防护 Exposure controls personal protection	heated above 120℃, cell(s) can explode/vent. Firefighting equipment: Use full-face self-contained breathing apparatus with full protective gear., which is accredited by national related competent authority. 个人预防措施: 使用个人防护服,避免与皮肤、眼睛、衣物接触;避免吸入烟雾和气体。 环境预防措施: 使用个人防护服,避免与皮肤、眼睛、衣物接触;避免吸入烟雾和气体。 环境预防措施: 不要排入下水道,地表水,地下水。 清理方法: 机械吸收并送去处理。 Personal precautions: Use personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid breathing fume and gas. Environmental precautions: Ds personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid breathing fume and gas. Environmental precautions: Ds personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid breathing up: Take up mechanically and send for disposal. 操作: 避免短路,避免短路,避免电池的机械损伤,不要打开或拆解。远离明火、热表面、点 点 火源。 储存: 储存于阴凉、干燥的地方。 Handling: Avoid short circuit. Avoid mechanical damage of the cell. Do not open or disassemble. Keep away from open flames, hot surfaces and sources of ignition. Storage: Store in cool and dry place. 正常使用时没有物质释放。 职业暴露控制: 原物护, 无需特殊预防措施。 平频和休息前要洗手。 呼吸系统防护: 无需特殊预防措施。 厚防护: 无需特殊预防措施。 更肤疗护:
Accidental release neasures 操作处置与储存 Handling and storage 妾触控制与个人防护 Exposure controls	 Firefighting equipment: Use full-face self-contained breathing apparatus with full protective gear., which is accredited by national related competent authority. 个人预防措施: 使用个人防护服,避免与皮肤、眼睛、衣物接触;避免吸入烟雾和气体。 环境预防措施: 不要排入下水道,地表水,地下水。 清理方法: 机械吸收并送去处理。 Personal precautions: Use personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid breathing fume and gas. Environmental precautions: Do not discharge into the drains/surface Waters/groundwater. Methods for cleaning up/taking up: Take up mechanically and send for disposal. 操作: 避免短路,避免电池的机械损伤,不要打开或拆解。远离明火、热表面、点火源。 储存: 储存于阴凉、干燥的地方。 Handling: Avoid short circuit. Avoid mechanical damage of the cell. Do not open or disassemble. Keep away from open flames, hot surfaces and sources of ignition. Storage: Store in cool and dry place. 正常使用时没有物质释放。 职业暴露控制: 无需特殊预防措施。 得防护: 无需特殊预防措施。 手防护: 无需特殊预防措施。 眼防护: 无需特殊预防措施。
Accidental release neasures 操作处置与储存 Handling and storage 妾触控制与个人防护 Exposure controls	 Firefighting equipment: Use full-face self-contained breathing apparatus with full protective gear., which is accredited by national related competent authority. 个人预防措施: 使用个人防护服,避免与皮肤、眼睛、衣物接触;避免吸入烟雾和气体。 环境预防措施: 不要排入下水道,地表水,地下水。 清理方法: 机械吸收并送去处理。 Personal precautions: Use personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid breathing fume and gas. Environmental precautions: Do not discharge into the drains/surface Waters/groundwater. Methods for cleaning up/taking up: Take up mechanically and send for disposal. 操作: 避免短路,避免电池的机械损伤,不要打开或拆解。远离明火、热表面、点火源。 储存: 储存于阴凉、干燥的地方。 Handling: Avoid short circuit. Avoid mechanical damage of the cell. Do not open or disassemble. Keep away from open flames, hot surfaces and sources of ignition. Storage: Store in cool and dry place. 正常使用时没有物质释放。 职业暴露控制: 无需特殊预防措施。 得防护: 无需特殊预防措施。 手防护: 无需特殊预防措施。 眼防护: 无需特殊预防措施。
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Accidental release neasures 操作处置与储存 Handling and storage 妾触控制与个人防护 Exposure controls	 Firefighting equipment: Use full-face self-contained breathing apparatus with full protective gear., which is accredited by national related competent authority. 个人预防措施: 使用个人防护服,避免与皮肤、眼睛、衣物接触;避免吸入烟雾和气体。 环境预防措施: 不要排入下水道,地表水,地下水。 清理方法: 机械吸收并送去处理。 Personal precautions: Use personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid breathing fume and gas. Environmental precautions: Do not discharge into the drains/surface Waters/groundwater. Methods for cleaning up/taking up: Take up mechanically and send for disposal. 操作: 避免短路,避免电池的机械损伤,不要打开或拆解。远离明火、热表面、点火源。 储存: 储存于阴凉、干燥的地方。 Handling: Avoid short circuit. Avoid mechanical damage of the cell. Do not open or disassemble. Keep away from open flames, hot surfaces and sources of ignition. Storage: Store in cool and dry place. 正常使用时没有物质释放。 职业暴露控制: 无需特殊预防措施。 保护和卫生措施:使用时不要吃、喝和抽烟。下班和休息前要洗手。 呼吸系统防护:无需特殊预防措施。
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Accidental release neasures 操作处置与储存 Iandling and storage 赛触控制与个人防护	 Firefighting equipment: Use full-face self-contained breathing apparatus with full protective gear., which is accredited by national related competent authority. 个人预防措施: 使用个人防护服, 避免与皮肤、眼睛、衣物接触:避免吸入烟雾和气体。 环境预防措施: 不要排入下水道, 地表水, 地下水。 清理方法: 机械吸收并送去处理。 Personal precautions: Use personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid breathing fume and gas. Environmental precautions: Do not discharge into the drains/surface Waters/groundwater. Methods for cleaning up/taking up: Take up mechanically and send for disposal. 操作: 避免短路, 避免电池的机械损伤, 不要打开或拆解。远离明火、热表面、点火源。 储存: 储存于阴凉、干燥的地方。 Handling: Avoid short circuit. Avoid mechanical damage of the cell. Do not open or disassemble. Keep away from open flames, hot surfaces and sources of ignition. Storage: Store in cool and dry place. 正常使用时没有物质释放。
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世漏应急处理	Firefighting equipment: Use full-face self-contained breathing apparatus with full protective gear., which is accredited by national related competent authority.
	Firefighting equipment: Use full-face self-contained breathing apparatus with full protective gear., which is
	Firefighting equipment:
	· · · · ·
	heated above 120° cell(s) can explode/vent
	beccar mengnung marueuona. It possible, remove cell(s) nom mengnung alea. It
	burining. Special firefighting instructions: if possible, remove cell(s) from firefighting area. If
	Extinguishing media: using extinguishing media suitable for the materials that are
	hydrogen fluoride, carbon monoxide and carbon dioxide.
	burn if the cell is incinerated. Combustion products include, but are not limited to
	Hazard: cell is not flammable, but cell will explode and internal organic material will
	备。
	消防设备:使用国家相关主管部门认证的全面孔自给式呼吸装置与完整的防护装
	如果在120℃以上,内部可能会发生爆炸/发泄。
	特殊消防说明:
	/ 沙,水等,
	灭火器具:使用正在燃烧物质适合的灭火工具:粉末灭火器、二氧化碳灭火器,黄
ire fighting measures	会燃烧。燃烧产物包括但不限于氟化氢、一氧化碳和二氧化碳。
	危险:电池不易燃,但如果电池燃烧,燃烧时电池可能会发生爆炸,内部有机物也
W r达 1井 ンケ	Ingestion: Drink milk / plenty of water, induce vomiting, and seek medical care.
	care.
	防措施 re fighting measures

Chemical products name: Rechargeable Lithium-ion Battery Pack S31-LI-144-6400 14.4V 5800mAh 83.52Wh

Form: Solid. Color: Black. Odor: Odorless.

		PH 值:	不适用				
		PHValue:					
			n.a. ていた田				
		闪点:	不适用				
		Flash point:	n.a.				
		爆炸下限:	不适用				
		Lowerexplosion limits:	n.a.				
		饱和蒸气压:	不适用				
		Vapour pressure:	n.a.				
		密度:	不适用				
		Density:	n.a.				
		│ │ 水溶性:	n.a. 不溶				
		小伯注: Water solubility:	Insoluble				
		· · · · · · · · · · · · · · · · · · ·	不适用				
		了於価度: Ignition temperature:	小垣用 n.a.				
10	稳定性和反应性	稳定性:稳定	11.a.				
10	Stability and reactivity	避免的情形:避免接触高温	温、明火和腐蚀性物质。不要刺激 被打开,可能释放酸,有机物等 储存和使用,不会分解。				
		Conditions to avoid: Avoid	exposure to heat, open flame and	corrosives. Do not			
		puncture, crush or incinera					
			products: In case of open cells, the	re is the possibility of			
		hydrofluoric acid and carbo	on monoxide released.	ed as directed			
11	毒理学信息		没有危害。如果发生火灾或泄漏				
	Toxicological	对皮肤,眼睛和呼吸系统					
	information		en used properly. In case of fire or	leakage combustion and			
			ay cause irritation and toxicity to sl				
		systems.	· · · · · · · · · · · · · · · · · · ·				
12	生态学信息	生态危害在正常使用情况	上下是未知的或预期的。不要冲)	、地表水或污水下水道系			
	Ecological information	统。					
		Ecological injuries are not known or expected under normal use. Do not flush into					
10	南大は田	surface water or sanitary sewer system. 座充产品的处置,不更随音手充。通过回收公司循环利田					
13	废弃处置	废弃产品的处置:不要随意丢弃,通过回收公司循环利用。 污染的包装物:容器或包装在正常使用时不会被污染。当电池内部污染物泄漏,根					
	Disposal information			电池内部污染物泄漏,根			
		据特殊控制作为工业垃圾					
			attery cell. Recycle it through the relation of the second s				
			materials leaked from a battery cel				
		industrial waste subject to	•	in containinates, aispose as			
14	运输信息	运输时具体要求应当参照以下规则:					
	Transportation	- 在国际民用航空组织(ICAO)技术细则(2023-2024 年版)					
	information	- 1110000000000000000000000000000000000					
			MDG)代码(2022年版)				
		- 关于危险货物运输的取	关合国建议书,试验和标准38.3	锂手册电池方面,第 5/6/7			
		版(含校正)					
		- UN3480					
		With regard to transport, the follo	owing regulations are cited and considere	ed:			

MSI	DS 编号:JC24-2611				第 5页共 5页	
MSI	DS No.				Page 5 of 5	
	品名称: 可充电锂离子电池组					
Chei	mical products name:Rechargeal	ble Lithium-ion	Battery Pack S31-LI-144-6400 14.4V 580	0mAh 83.52W	h stiene (2022-2024 Edition)	
		- The Intern - The Intern - The UN Re	ational Civil Aviation Organization (ICAO) T ational Air Transport Association (IATA) Da ational Maritime Dangerous Goods (IMDG) ecommendations on the Transport of Dange batteries, 5th/6th/7th revised edition (includ 80	ngerous Goods Code (2022 Ed erous Goods, M	Regulations (65th Edition,20 ition), anual of Tests and Criteria	24)
		产品才	安照相应规则要求(如:IMDG SP	188) 讲行ī	下确分类. 描述. 包装.	标
			占,并满足适用的国际或国家政府			
		照非危险品	品来进行运输。			
		本产品	品及包装件应该满足联合国《关于	危险货物运	输的建议书规章范本》	1.2
		米跌落试验	金、联合国《试验和标准手册》T1	-T8的要求,	包装件进行合理的包装	裝和
		标记标签等	穿,则可认定为非危险品。根据IM	IO IMDG SF	188,货物可以不受	
			G规则限制。			
		requirements transportation	s are properly classified, described, packag (for example, IMDG SP188), and can be re according to all the applicable internationa above mentioned.	cognized as "N	on-Dangerous Goods". for	
		This produc ns on the Tra ckage should n-dangerous 188.	t and its package should meet the requirem insportation of Dangerous Goods, T1-T8 of be reasonably packaged and marked with goods. The article can be not restricted to	the UN Manual labels, etc., and MO IMDG co	of Tests and Criteria, and the d then it can be recognized as	e pa s no
			告编号/Test report No. : CST-K12407		A 11.	1
			准手册 un38.3 锂电池 Fest and Criteria (38.3 Lithium battery)	测试结果	备注	
		序号No.		Test Results	Remarks	
		T1	高空模拟 Altitude Simulation	P		-
		T2	為沖击 Thermal Test	P		1
		T3	振动 Vibration	P		+
		T4	· 冲击 Shock	P		
		T5	外部短路 External Short Circuit	P		
		T6	重物撞击 Impact/挤压 Crush	P		
		T7	过充 Overcharge	P		
		T8	强制放电 Forced Discharge	P		1
15		参照 14 音		-		<u> </u>
	Regulatory information	See section				
16				当地古住田	— 本 · · · · · · · · · · · · · · · · · · ·	 可 <i>士</i>
16	其它信息 Other information		准确,但不包括所有的情况,仅作 Ex到你一番公司对亲早选成的任何			七月
		的知识水平制作,我公司对产品造成的任何损失概不负责。 The above information is correct, but does not contain all of the information and only				
			uide. The information in this document			
			ny is not responsible for any damage			, 50
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