

Report No. 20230106001		
版本号: 0	发行日期 06-01-2023	
Version number 0	Issue Date 06-Jan-2023	
产品名称 : WA3639 锂电池组	修订日期 N/A	
Product name: WA3639 Lithium Battery Pack	Revision date N/A	

第一部分: 化学品及企业标识

**SECTION1: Product and Company Identification** 

SECTION1: Product and Company Identification		
产品型号	WA3639 锂电池组	
Product name	WA3639 Lithium Battery Pack	
产品推荐和限制用途	请咨询生产商	
Identified uses	Please consult manufacture	
	安全数据表供应商的详细信息	
D	etails of the supplier of the safety data sheet	
企业名称	宝时得科技(中国)有限公司	
Supplier	Positec Technology (China) Co.,Ltd.	
企业地址	江苏省苏州市工业园区东旺路 18 号	
Address	No.18 DongWang Road ,Suzhou Industrial Park	
邮编	215123	
Postcode	210120	
电子邮箱	email@positecgroup.com	
E-mail	ondir@positeogroup.com	
联系电话	+86-512-65152888	
Tel	+00-312-03132000	
传真	+86-512-65152885	
Fax	T00-012-00102000	
企业应急电话	+86-512-65152888	
Emergency telephone number	T00-012-00102000	

## 第二部分:危险性概述

### **SECTION 2: Hazards identification**

0_0	
紧急情况	警告,不可拆卸电池、不可暴露于明火中、不要混合使用不同型号和类型的电池、不要
Emergency situation	在火中暴露和燃烧、不要短路、挤压、燃烧或拆卸电池。
	Warning, do not open and disassemble it, and do not exposed to fire or open
	flame; Don't mix put batteries with different models and different types. It will
	expose and burn when in fire; Do not short circuit, extrusion, burning or remove the
	battery.

第三部分:成份/组成信息

## **SECTION 3: Composition/information on ingredients**

锂电池组 WA3639 化学的成份。		
Battery Pack WA3639 dangerous components.		
化学名称 Chemical Name	CAS 编号 CAS-No	材料组成 Material Composition
Lithium nickel-cobalt-manganese oxide	182442-95-1	23-35%
Aluminum	7429-90-5	3-8%
PVDF	24937-79-9	0.2-0.6%
Graphite	7782-42-5	13-20%
Copper	7440-50-8	6-11%
SBR	9003-55-8	0.4-1%
PE	9002-88-4	0-1%
PP	9003-07-0	0-1%
LithiumHexafluorophosphate	21324-40-3	1-3%



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EC	96-49-1	2-3%
Steel	7439-89-6	15-20%
Nickel	7440-02-0	15-20%

第四部分: 急救措施

**SECTION 4: First aid measures** 

	ot dia mododico
材料从电池内部泄	上漏
For the material le	eaked from battery interior
眼睛接触	如果接触,用清水冲洗至少 15 分钟,上下眼睑翻动,直到化学残留物消失,然后立即就医。
取明安應 Eye contact	if contact, rinse with clean water for at least 15mins, turns upper and lower eyelid until the
Lye contact	chemical residue gone, then go to see doctor immediately.
	如果接触,用肥皂水冲洗。同时脱掉被污染的衣服和鞋子。如果化学烧伤或持续刺激,请立
皮肤接触	即就医。
Skin contact	if contact, rinse with suds. Meanwhile take off the polluted clothes and shoes. If chemical
	burns or continual stimulates, please go to see a doctor immediately.
摄 入	立即就医
Inhalation	go to see a doctor immediately
吸入	移至空气新鲜处,保持呼吸道畅通,如有不适,立即就医
Inhalation	remove him to the area that with the clean air immediately, provide him
IIIIIaiatioii	artificial respiration if can not breathe, don't use mouth-to-mouth breath method.
	如有呼吸困难,给予氧气以克服呼吸困难。马上去看医生。
If has difficulty	to breathe, given oxygen to overcome breathing problem. Go to see a doctor immediately.

第五部分: 消防措施

**SECTION 5: Fire fighting measures** 

灭火介质	
Extinguishing media	
合适的灭火介质	雾状水、抗溶性泡沫、干粉、二氧化碳、砂土
Suitable extinguishing agents	CO2, dry chemical powder, water spray.
不合适的灭火介质	<b>无资料</b>
Unsuitable extinguishing agents	No information available.
源于此物质或混合物的特别危害	无资料
Special hazards arising from the	九页科   Not flammable.
substance or mixture	Not nammable.
对消防人员的建议	消防员应穿戴适当的呼吸器和防护装备
Advice for firefighters	Fire-fighters should wear appropriate breathing apparatus and
	protective equipment

第六部分: 泄漏应急处理

**SECTION 4: First aid measures** 

	使用个人防护装备。 避免接触皮肤、眼睛和衣物。 避免吸入烟雾和
作业人员防护措施	气体。
Personal precautions	Use personal protective clothing. Avoid contact with skin, eyes and
	clothing. Avoid breathing fume and gas.
环境保护措施	不排入排水、地面水、地下水
Environmental precautions	Do not discharge into the drains/surface waters/groundwater
清理/占用的方法	机械收起并送去处置
Methods for cleaning up/taking up	Take up mechanically and send for disposal.

第七部分: 操作处置和储存



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SECTION 7: Handling and storage

SECTION 1. Hariuming and Storage	•
处理	
Handling	
安全处理须知	避免电池短路。避免电池的机械损坏。不要打开或拆卸
Advice on safe handling	Avoid short circuiting the battery. Avoid mechanical damage of the
	battery. Do not open or disassemble.
防火防爆须知	远离明火、热表面和火源
Advice on protection against fire and	Keep away from open flames, hot surfaces and sources of ignition.
explosion	Neep away from open harnes, not surfaces and sources of ignition.
存储	
Storage	
仓库和容器的要求	在室温下存储。20-60%的额定容量,保存在封闭的容器中。
Requirements for storage rooms and	Storage at room temperature (approx. 20°C) at approx. 20 60% of
vessels	the nominal capacity
	Keep in closed original container.

# 第八部分: 暴露控制和个体防护

SECTION 8: Exposure controls/pe	ersonal protection
工程控制 Engineering Control	选择合适的通风和温度控制设备,应配备眼睛清洁和淋浴设备。使用本地设备,暴露的浓度在限定范围内。 Select the appropriate ventilation and temperature control equipment, which should be equipped with eye cleaning and shower equipment. Use local equipment to ensure its concentration under the limitation.
眼睛防护 Eye protection	在正常使用下不需要。如果要处理泄漏或电池破裂的情况,请戴有侧面护罩的护目镜。 Not necessary under normal use. Wear safety goggles or glasses with side shields if handling a leaking or ruptured battery.
手部防护 Hand protection	在正常使用下不需要。处理泄漏或破裂的电池时,应戴上橡胶手套。 Not necessary under normal use. Wear rubber gloves if handling a leaking or ruptured battery.
皮肤和身体防护 Skin protection	在正常使用下不需要。在处理泄漏或破裂的电池时,请穿防护服。 Not necessary under normal use. Wear protection suit in case of handling a leaking or ruptured battery
呼吸防护 Respiratory protection	在正常使用下不需要。处理泄露或电池破裂时需要保持空气流通,不要在狭窄的地方处理它。 Not necessary under normal use. Keep the air circulation in case of handling a leaking or ruptured battery. Do not use it in a narrow place in this case.

# 第九部分: 理化特性

SECTION 9: Physical and chemical properties		
电池组型号	WA3639	
Battery pack model		
物理状态	固体	
Physical state		
颜色	黑色	
Color		
气味	无	
Smell		



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+++	
电芯	L1865-2.0 (union)
Cell mode	
电压	18V
Voltage	
重量	385g
Weight	
容量	2.0Ah
Capactity	
电池包瓦时	36Wh
Watt-hours of Battery	
水溶性	不溶于水
Solubility in water	Does not dissolve in water

## 第十部分: 稳定性和反应性

### **SECTION 10: Stability and reactivity**

OLOTION 10. Glability and reactivity		
稳定性	在正常储存和使用的情况下,应保持稳定	
Stability	It should be stable under the condition of normal storage and	
	operation.	
避免接触的条件	过热、暴露于潮湿条件下、机械振动	
Conditions to avoid	Overheat; Exposure to humid conditions; Mechanical vibration	
禁配物	强氧化剂。	
Taboo materials	strong oxidant	
危险的分解产物	在燃烧的条件下可能产生有害的分解产物	
Hazardous decomposition products	Under the condition of burning may produce harmful decomposition	
	products	
有害的聚合反应	无	
Hazardous polymerization reaction	N/A	

## 第十一部分:毒理学信息

# **SECTION 11: Toxicological information**

急性毒性	无资料	
Acute toxicity	No data available	
皮肤腐蚀/刺激	没有刺激性作用	
Skin corrosion/irritation	No irritant effect	
严重眼损伤/刺激	没有刺激性作用	
Serious eye damage/irritation	No irritating effect	
呼吸道或皮肤致敏	无致敏作用	
Respiratory or skin sensitization	No sensitizing effects known	
特定靶器官系统毒性	无资料	
Specific target organ system toxicity	No information available	
毒物动力学、代谢和分布	无资料	
Toxicokinetics , metabolism and	No information available	
distribution		
吸入危害	无资料	
Aspiration hazard	No information available	
CMR 效应(致癌性、诱变性和生殖毒性)	<b>无资料</b>	
CMR effects (carcinogenity,	No information available	
mutagenicity and toxicity for		
reproduction)		



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第十二部分: 生态学信息

#### **SECTION 12: Ecological information**

在正常使用条件下,无生态损害。不要冲入水或下水道系统

There are no ecological injuries under normal usage. Do not flush into water or sanitary sewer system

第十三部分: 废弃处置

#### **SECTION 13: Disposal considerations**

建议处理:关于回收请咨询制造商,按当地规定处置。

Advice on disposal: For recycling consult manufacturer. Disposal in accordance with local regulations

### 第十四部分:运输信息

#### **SECTION 14: Transport information**

附录中所述的可充电锂离子电池组符合国际航空运输协会(IATA)危险品法规包装指令 965 的最新版本II 的要求,可以作为非限制(非危险/非危险)货物运输。

关于运输,引用和考虑了下列规定:

- -国际民用航空组织(ICAO)技术指导书,包装指导书 965,IB 节(2022-2023 版),
- -国际航空运输协会(IATA)危险品规则,包装指示 965,IB 节(第 64 版, 2023)
- -《国际海事危险货物规则》(第402022版), -美国有害材料法规49CFR(联邦法规法典)
- -美国有害材料法规 49 CFR(联邦法规法典) 第 173-185 条锂电池和电池,
- -联合国关于危险货物运输的建议,试验和标准手册 38.3 锂电池, Rev.7

The rechargeable Lithium-Ion battery pack as stated in Appendix are made in compliance to the requirements stated in the latest edition of the IATA Dangerous Goods Regulations Packing Instruction 965 section II such that they can be transported as a NOT RESTRICTED (non-hazardous/non-dangerous) goods. With regard to transport, the following regulations are cited and

- The International Civil Aviation Organization (ICAO) Technical Instructions, Packing Instruction 965, Section IB (2022-2023 Edition),
- The International Air Transport Association (IATA) Dangerous Goods Regulations, Packing Instruction 965, Section IB (64th Edition, 2023)
- The International Maritime Dangerous Goods (IMDG) Code (40th 2022 Edition),
- US Harzardous Materials Regulations 49 CFR (Code of Federal Regulations) Sections 173-185 Lithium batteries and cells,
- The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium batteries, Rev.7

DOT

正确运输名称 锂电池组

Proper Shipping Name Lithium ion battery

危险等级

**Hazard Class** 

应急响应指南 147

**Emergency Response Guide** 

UN 号 3480

UN number

TDG 不受管制

Not regulated

MEX 不受管制

Not regulated

ICAO (air) 货物符合一般要求和包装说明 965 第 IB 节的要求



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The goods comply with general requirements and section IB of

packing instructions 965

正确运输名称 锂离子电池组 Proper Shipping Name Lithium ion battery

危险等级

**Hazard Class** 

UN 号 3480

**UN** number

锂电池净重Net weight of lithium battery不超过 10KgNot exceed 10Kg

IATA 货物符合一般要求和包装说明 965 第 IB 节的要求

The goods comply with general requirements and section IB of

packing instructions 965

Proper Shipping Name Lithium ion battery

危险等级

**Hazard Class** 

UN 号 3480

**UN** number

锂电池净重 不超过 10KgNet weight of lithium battery Not exceed 10Kg

IMDG 本条款不限于国际海事组织国际危规(IMDG)第 188 条特别规定

The article is not restricted to IMO IMDG Code according to Special

Provision 188

正确运输名称 锂电池组

Proper Shipping Name Lithium ion battery

**Hazard Class** 

UN 号 3480

**UN** number

应急表号 F-A, S-I

EmS-No.

RID 不受管制

Not regulated

ADR 根据特别条款 188, 本条不限于 ADR

The article is not restricted to ADR according to Special Provision

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正确运输名称 锂电池组

Proper Shipping Name Lithium ion battery

危险等级

**Hazard Class** 

UN 号 3480

UN number

应急表号 F-A, S-I

EmS-No

ADN 不受管制

Not regulated



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我们的产品经过适当的分类、描述、包装、标记和标签,并根据所有适用的国际和国家政府法规处于适当的运输条件,但不限于上述规定。我们进一步证明,所附产品已按照联合国《危险货物运输示范条例》建议(T1-T8)和《试验和标准手册》进行了试验,并符合可被视为"非危险货物"的要求和条件。

Our products are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to all the applicable international and national governmental regulations, not limited to the above mentioned. We further certify that the enclosed products have been tested and fulfilled the requirements and conditions in accordance with UN Recommendations (T1 - T8) on the Transport of Dangerous Goods Model Regulations and the Manual of Tests and Criteria that can be treated as "Non-Dangerous Goods".

试验和标准手册 un38.3 锂电池		测试结果	备注
Manual of Test and Criteria (38.3 Lithium battery)		Test Results	Remarks
序号 No.	测试项目 Test item		
T1	高空模拟 Altitude Simulation	Р	
T2	热冲击 Thermal Test	Р	
T3	振动 Vibration	Р	
T4	冲击 Shock	Р	
T5	外部短路 External Short Circuit	Р	
T6	重物撞击 Impact/挤压 Crush	Р	
T7	过充 Overcharge	Р	
T8	强制放电 Forced Discharge	Р	

#### 第十五部分: 法规信息

## **SECTION 15: Regulatory information**

OLOTION 13. Regulatory illiorinati	OH .	
特定于物质的安全、健康和环境法规		
Safety, health and environmental regulations/legislation specific for the substance		
美国或欧盟法规	USA or EU Regulation	
授权	无资料	
Authorizations	No information available.	
授权使用限制	无资料	
Restrictions on use	No information available.	

### 第十六部分: 其他信息

#### **SECTION 16: Other information**

这一信息是基于我们现有的知识,但不构成对具体产品特性的保证,不构成具有法律效力的合同关系。

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### 免责声明

#### Disclaimer

本材料安全数据表中提供的信息在发布 之日就我们所知和所信是正确的。所提供 的信息仅用于指导安全搬运、使用、加工、 储存、运输、处置和放行,不应视为保修 或质量规范。该信息仅与指定的特定材料 有关,对于与任何其他材料结合使用或在 任何过程中使用的此类材料可能无效,除 he information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material



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非文中另有规定。	used in combination with any other materials or in any process, unless specified in the text.

Author	Reviewer	Approval
Zicheng Wang	Yanping Yan	Allen Ding
06-Jan-2023	06-Jan-2023	06-Jan-2023

----安全数据表结束---

----End of Safety Data Sheet---