

化学品安全技术说明书

MATERIAL SAFETY DATA SHEET

参考编号

WTX23D12262360B

Reference No.....

申请商

海能达通信股份有限公司

Applicant.....

: Hytera Communications Corporation Limited.

申请商地址

深圳市南山区高新区北区北环路 9108 号海能达大厦

Address.....

Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road,

Nanshan District, Shenzhen, People's Republic of China.

制造商

海能达通信股份有限公司

Manufacturer.....

Hytera Communications Corporation Limited.

制造商地址

深圳市南山区高新区北区北环路 9108 号海能达大厦

Address.....

Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road,

Nanshan District, Shenzhen, People's Republic of China.

样品名称

锂离子电池组

Sample's name.....

Li-ion BATTERY PACK

签发日期

Date of Issue.....

: 2024-01-01

制作 Prepared By:

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Reviewer





第一部分 — 化学品及企业标识 Section 1-Chemical Product and Company Identification

产品名称 Product Name:	锂离子电池 Li-ion BATTERY PACK
型号 Model No.:	BL2411-Ex
额定值 Ratings:	7.4V, 2400mAh, 17.7Wh
重量 Weight:	Approx. 149.5g
制造商 Manufacturer:	海能达通信股份有限公司 Hytera Communications Corporation Limited.
地址 Address: 深圳市南山区高新区北区北环路9108号海能达大厦 Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, People's Republic of China.	
紧急联系电话 Emergency Telephone:	+86-0755-26972999
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邮箱 E-mail:	Ruifen.Huang@hytera.com

第二部分 一 危险性概述 **Section 2-Hazards Identification**

分类 Classification:	正常使用不危险。 请勿拆卸,打开或切碎电池。 主要的危险性是电池破裂的危险,暴露出的成分或其成分产品中可能有害。
A A A	Not dangerous with normal use. Do not dismantle, open or shred battery. The
incite when have	hazards indicated are for a ruptured battery. Exposure to the ingredients contained within or their ingredients products could be harmful.
侵入途径	急性:请参见第8部分以了解泄漏控制,如果电池破裂,电池中包含的电解质溶液将
Invasion route:	具有腐蚀性并有可能引起灼伤。
WALTER WALTER	ACUTE : see Section 8 for exposure controls In the event that this battery has been ruptured, the electrolyte solution contained within the battery would be corrosive and can cause burns.
A A .	皮肤接触:接触电解液泄漏可能导致皮肤疼痛和刺激
white white whi	Skin contact: The leakage of the electrolyte may cause sore and stimulation on the skin
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	眼睛接触: 电解液的蒸汽可能刺激眼睛,特别是含有可能引起眼睛发炎的物质。
The Maria Maria	Eye contact : The steam of the electrolyte may stimulate eyes. Especially, substance that may cause inflammation of the eyes is contained
EK WALTER WALTER	吸入: 吸入密封电池中的材料不是预期的暴露途径。 电池破裂产生的蒸汽或烟雾可能引起呼吸道刺激。
THE LIER OF	Inhalation: Inhalation of materials from a sealed battery is not an expected route of exposure. Vapors or mists from a ruptured battery may cause respiratory irritation.
The Mr. M.	摄入: 由于电池大小, 预计无法吞咽。摄入电解质会导致喉咙组织受损。
TEX NIEX WILL	Ingestion: Swallowing is not anticipated due to the battery size. The ingestion of the electrolyte causes tissue damage to throat
健康危害	对于电池或电芯,化学材料储存在密封的金属或金属层压塑料容器中,其设计可承受
Health hazards:	正常使用过程中遇到的温度和压力。因此,在正常使用期间,不存在着火、爆炸或危
LIE WILL WILL	险材料泄漏的物理危险。但是如果暴露在火焰中,增加机械冲击或分解,这些不当处
	理会导致电解液泄漏。此外,如果被周围的火强烈加热,可能会释放出刺鼻的气体。
the title the	For the battery or cell, chemical materials are stored in a sealed metal or metal
21/2 21/2 2	laminated plastic case, which designed to withstand temperatures and pressures
1 1	encountered during normal use. As a result, during normal use, there is no physical
LIFE OUT ON	danger of ignition, explosion or leakage of hazardous materials. However, if
41 14 14	exposed to a fire, added mechanical shocks or decomposed, these improper



Reference No: WTX23D12262360B

Page 3 of 9

t it it	handlings would cause the leakage of electrolyte. Moreover, if heated strongly by the surrounding fire, acrid gas may be emitted	
环境危害 电解液泄漏或电池容器破裂可能导致内部部件泄漏到环境中。		
Environment	Electrolyte leakage or battery container rupture may lead to the leakage of inner component into the environment	
hazards:		
烧伤和爆裂危险:	不要将电池放在火焰中,否则会爆炸。不要使电池短路,否则会引起火灾。	
Burn & burst danger:	Do not dispose of battery in firemay explode. Do not short-circuit the battery—may cause fire	

第三部分 — 成分/组成信息 Section 3 – Composition/information on Ingredient

纯净物 Pure □ 混合物 Admixture⊠

化学成分 Chemical Composition		分子式 Molecular Formula	CAS号 CAS No.	含量(百分比) Weight(%)
Lithium Cobalt		LiCoO2	12190-79-3	25~40
Iron		Fe 7439-89-6 15-25		15-25
Aluminum		Al	7429-90-5	2~6
Graphite	Natural graphite	(1), C (1), (1)	7882-42-5	10~20
	Artificial graphite	C C	7440-44-0	
Copper		Cu	7440-50-8	5~15
Organic electrolyte		N/A	N/A	10~20

注: CAS号为化学品服务注册号。

Note: CAS number is Chemical Abstract Service Registry Number.

N/A 为不适用 N/A=Not apply.

第四部分 — 急救措施 Section 4 – First Aid Measure

	Section 4 – First Aid Measure
皮肤接触	脱掉所有被污染的衣物,立即用肥皂和大量水冲洗异物至少15分钟,获取医疗救助。
Skin touch:	Remove all contaminated clothing and flush extraneous matter with soap and plenty of water immediately for at least 15 minutes. Get medical aid.
眼睛接触	如果电解液接触眼睛, 立即用大量水冲洗。如果受害者在冲洗前戴着隐形眼镜, 让他
Eyes touch:	摘下隐形眼镜。不要让受害者揉眼睛。得到医疗救助。
	In case of contact electrolyte with eyes, rinse immediately with plenty of water. Have the victims remove contact lenses if he is wearing them before rinsing. Do not let the
	victims rub his eyes. Get medical aid.
吸入	转移到空气新鲜的地方。必要时给予氧气或人工呼吸。得到医疗救助。
Inhalation:	Remove to fresh air. Give oxygen or artificial respiration if needed. Get medical aid.
摄入	正常情况下,预计不会吞咽。如果不小心吃了这个产品,用大量的水稀释并就医。确
Ingestion:	保粘液不会阻塞气道。不要给昏迷的人吃任何东西
	Swallowing is not anticipated in normal condition. If accidentally eat the product,
	dilute by giving plenty of water and get medical aid. Assure that mucus does not obstruct the airway. Do not give anything by mouth to an unconscious person

第五部分 — 消防措施 Section 5 – Fire Fighting measures

Ù	危险特性	不易燃。如果使用不当导致过热,电池可能会泄漏可燃电解液烟雾。		
3	Danger	Non-flammable. The batteries can leak combustible electrolyte fumes in case of over		
Š	characteristic:	heat resulting from inappropriate use.		
	有害燃烧产物	如果燃烧或暴露在火中,可能会释放刺激性气体。		
	Hazardous Irritant gas may be emitted if burned or exposed to fire			





combustion products:	LIER WIFE WILLER WHILE WILL WILL WILL WILL WILL WILL WILL W
灭火方法和介质	人员必须配备过滤面罩(全面罩)或隔离式呼吸器。工作人员必须穿防火、防毒气的
Fire-Fighting	衣服和手套。当蓄电池与其它可燃物同时燃烧时,应采取与可燃物相对应的灭火方
method & media:	法。尽可能从迎风处灭火。
Milet Milet Mile	The staff must equipped with filter mask (full mask) or isolated breathing apparatus. The staff must wear the clothes and gloves which can defend the fire and the toxic gas. When the battery burns with other combustibles simultaneously, take fire-extinguishing method which correspond to the combustibles. Extinguish a fire from the windward as much as possible
灭火剂	二氧化碳、干粉、泡沫等 。
Extinguishant:	Carbon dioxide, dry chemical, foam, etc

第六部分 — 泄漏应急处理 Section 6 – Accidental Release Measures

个人注意事项 Personal precautions	注意!腐蚀性材料。避免接触皮肤、眼睛或衣服。确保通风良好。按要求使用个人防护装备。将人员疏散到安全区域。保持人员远离泄漏/泄漏的上游。 Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
其他信息 Other Information	参见第 7 部分和第 8 部分中列出的保护措施。 Refer to protective measures listed in section 7 and 8.
环境预防措施 Environmental precautions	参见第 7 部分和第 8 部分中列出的保护措施。在安全的情况下防止进一步泄漏或溢出。不应释放到环境中。不允许进入土壤/底土。防止产品进入下水道。 Refer to protective measures listed in Section 7 and 8. Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.
控制方法 Methods for containment	在安全的情况下防止进一步泄漏或溢出。 Prevent further leakage or spillage if safe to do so.
清理方法 Methods for cleaning up	捡起并转移到贴有回收标签的容器中。 Pick up and transfer to properly labeled containers.

第七部分 — 操作处置与储存 Section 7 – Handing and storage

处置	在处理电池前,用户应仔细阅读产品说明书。不要用导电物品挤压、刺穿电池端子。
Handing:	不直接加热或焊接。不要往火里扔。不要混用不同类型的电池。不要混用新电池和旧
2115 211	电池。将电池放在不导电的托盘中。
t like like	Before handling the batteries, the users should read the product specification
The sales	carefully. Do not crush, pierce the battery terminals with conductive goods. Not
20.	directly heat or solder. Do not throw in fire. Do not mix batteries of different types.
. St . Let	Do not mix new and used batteries. Keep batteries in non-conductive trays
储存	将电池储存在阴凉通风的地方,远离热源、明火、腐蚀性化学品、食物和饮料。由于短
Storage:	路会导致燃烧、泄漏和破裂,因此在使用前请将电池保持在原包装中,不要将其混淆。
TEK STER SINT	远离儿童。
20 20	Store batteries in cool and ventilated area away from sources of heat, open
t it it	flames, corrosive chemicals, food and drink. Since short circuit can cause burn,
MULL MULL	leakage and rupture, keep batteries in original packaging until use and do not jumble them. Keep away form children
	Thom: Noop away form ormaton



第八部分 一 接触控制和个体防护 Section 8 – Exposure controls, Personal Protection

最大允许浓度: Maximum admissible concentration:	无可用信息 No information is available
监测方法: Monitoring Method:	使用通风或其他监控设备来控制温度、湿度和烟雾。 Use ventilation or other monitoring devices to control temperature, humidity and fumes
工程控制: Engineering Control:	使用通风或其他监控设备来控制温度、湿度和烟雾。 Use ventilation or other monitoring devices to control temperature, humidity and fumes
呼吸防护 Respiratory Protection:	正常使用时不需要。如果电池破裂,使用自给式呼吸设备。 Not necessary under normal use. In case of battery rupture, use self-contained respiratory equipment
眼睛/面部防护 Eyes/face Protection:	正常使用时不需要。如果处理泄漏或破裂的电池,请佩戴护目镜。 Not necessary under normal use. Wear safety goggles if handing a leaking or ruptured batteries
皮肤和身体防护 Skin and Body protection:	正常使用时不需要。处理泄漏或破裂的电池时,请使用橡胶围裙和防护服。 Not necessary under normal use. Use rubber apron and protective clothes in case of handing a leaking or ruptured batteries
手部防护 Hands Protection:	正常使用时不需要。如果处理泄漏或破裂的电池,请使用橡胶手套。 Not necessary under normal use. Use rubber gloves if handing a leaking or ruptured batteries
卫生措施 Hygiene Measures:	按照良好的工业卫生和安全惯例处理。避免接触皮肤、眼睛或衣服。戴上合适的手套和眼睛/面部防护装置。使用本产品时请勿进食、饮水或吸烟。脱掉被污染的衣服,洗干净再使用。污染的工作服不得离开工作场所。建议定期清洁设备、工作区域和衣物。休息前和处理产品后立即洗手。为保护环境,在重新使用之前,请移除并清洗所有受污染的防护设备。
Whitek whitek wh	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Contaminate work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use.
其他防护措施 Other Protections:	无 None

第九部分 — 理化特性 Section 9 – Physical and Chemical Properties

物理形态 Physical state:	固体 Solid
颜色 Color:	黑色 Black
气味 Odor:	无气味 Odorless
PH 值 pH Value:	不适用 Not available
沸点 Boiling	不适用 Not available
point /range	7.短/ij Not avaliable
熔点/冰点	不适用 Not available
Melting /freezing	77.8/I) TVOL AVAIIABLE



Reference No: WTX23D12262360B

Point:	The state of the s
闪点 Flash point:	不适用 Not available
蒸发率	71 AE/II i NOL
	不适用 Not available
rate:	(小起/) Two available
可燃性上下限	The state of the s
Upper	the state with the Mr. In the state of the
flammable(explo	WALL AND AN AN AN AN AND THE THE STIEF WITH MIT WITH
sive) limits in air-	不适用 Not available
Lower (vol%)-	with this and and any the state of the
UEL:	of the state of the state with the same of the
蒸汽压	Alt - The STATE WITH SINE STATE OF THE STATE OF
Vapor pressure:	不适用 Not available
蒸汽密度	and the first still spill spil
Vapor density:	不适用 Not available
比重	The state of the s
Specific Gravity:	不适用 Not available
水溶性	Africa 100 1 100 1 100 100 100 100 100 100 10
Water Solubility:	不溶于水 Immiscible in water
其他溶剂中的溶解	STIP MIT WAS AND THE TEN THE
度 Solubility in	不适用 Not available
other solvents:	EX TEX TEX STEE WALL WILL WILL WILL WILL WILL WILL WILL
分配系数(正辛醇	WALL THE WILL WILL STEEL
/水)Partition	
coefficient (n-	不适用 Not available
octanol / water):	A STATE OF THE SECOND STAT
自燃温度	A Contract of the Contract of
Autoignition	不适用 Not available
temperature	The state of the s
分解温度	LITER SLIFE WITE WALL WAS IN THE TEXT
Decomposition	不适用 Not available
temperature:	t it let will will will will but the
动力粘度	and with an with the state of the state of the state of
Kinematic	不适用 Not available
viscosity:	The life will will all the the tent of the
动态粘度	THE THE STATE WITH WITH WITH WITH
Dynamic	不适用 Not available
viscosity:	and and an a grant the title of the
爆炸性 Explosive	不适用 Not available
properties:	THE THE WITH THE ME AND
氧化性 Oxidizing	不适用 Not available
properties:	the text with the part of the
蒸发率	TERMS willed
Evaporation	不适用 Not available
rate:	
燃点 Ignition	尤可用信息 No information is available
temperature:	INO IIIIOITIIAIIOTI IS AVAIIADIE
任何附加信息 Any addition	无 nti nti tit
information:	None
miorination.	the state of the same of the s

Page 6 of 9



第十部分 — 稳定性和反应性 Section 10 – Stability and Reactivity

	Occion to – Glability and Reactivity
反应性	无可用数据
Reactivity:	No data is available
化学稳定性	在推荐的储存条件下状态稳定
Chemical	Stable under recommended storage condition
stability:	The state of the s
危险反应的可能性	正常操作下,无
Possibility of	None under normal processing.
Hazardous	The state of the s
Reactions:	THE THE RITE WITH AND AN AN A SE SE
聚合危险性	无可用信息
Hazardous	No information is available
Polymerization:	I NO IIIIOITII atioti is available
应避免的条件	长时间暴露在空气或湿气中
Conditions to	Exposure to air or moisture over prolonged periods
avoid:	of the the site was all all a second
不相容材料	酸、碱、氧化剂
Incompatible	Acids, Bases, Oxidizing agent
materials	THE THE STEE WAY AND
有害分解产物	如果燃烧或暴露在火中,可能会释放刺激性气体
Hazardous	Irritant gas may be emitted if burned or exposed to fire
Decomposition	LET THE THE WITH MAY MAY MAY THE WAY
Products:	med and any any
A S V P S S S S S S S S S S S S S S S S S	

第十一部分 — 毒理学信息 Section 11 – Toxicological Information

	occion 11 – roxicological information
急性毒性 Acute	锂离子电池不含有毒物质
Toxicity:	Lithium ion batteries do not contain toxic materials
亚急性和慢性毒性	锂离子电池不含有毒物质
Sub-acute and	Lithium ion batteries do not contain toxic materials
Chronic Toxicity:	
刺激性 Irritation:	只有在滥用电池的情况下才会发生刺激,并可能对皮肤、眼睛、呼吸道造成刺激。
	Irritation only occurs if the batteries are abused and it may cause irritation to skin,
the self of the self	eyes, respiratory tract.
致敏性	无可用信息
Sensitization:	No information is available
致突变性	一无可用信息
Mutagenicity:	No information is available
致癌性	无可用信息
Carcinogenicity:	No information is available
其他 Others:	无
	None

第十二部分 一 生态学信息

Section 12 – Ecological Information

生态毒性	正确使用和处置锂电池不会对环境造成危害
Eco-toxicity:	When properly used and disposed, lithium ion batteries do not present environment
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	hazard
生物降解性	无可用信息
Biodegradable:	No information is available
生物浓缩或生物积 累 Bioconcentration or biological accumulation:	无可用信息 No information is available
其他有害影响 Other harmful effects:	无 None







第十三部分 — 废弃处置 Section 13 – Disposal Considerations

` <u></u>	
废弃物性质	无可用信息
Nature of waste:	No information is available
废物处理方法	根据不同国家的适用法规进行处理。在更多的国家,废旧电池被禁止丢弃,并邀请最
Waste disposal	终用户妥善处理。锂离子电池的端子应绝缘,最好在处理前用塑料袋包装。
methods:	Dispose in accordance with applicable regulations which vary from country to country. In more countries the discard of used batteries is forbidden and the endusers are invited to dispose them properly. Lithium ion battery should have their terminals insulated and be preferably wrapped in plastic bags prior to disposal
污染包装 Contaminated Packaging:	根据当地法规处理内容物/容器。 Dispose of contents/containers in accordance with local regulations.
注意事项 Attention	用户不得焚烧电池
abandoned:	Incineration should never be performed by battery user

第十四部分 — 运输信息 Section 14 - Transport information

	Section 14 - Transport information
注 Note:	本报告适用于空运、海运或公路运输。
. 24. 2s.	BL2411-Ex 锂离子电池组通过了《危险货物运输建议书-试验和标准手册》第 38.3 节
e at at	│ 的试验。 │ 锂电芯和电池的运输受国际民用航空组织、国际航空运输协会、国际海运危险品规则
The court of the column of	住电心和电视的运输文画的内用机工组织、国际机工运输协会、国际海运厄应而规则
20, 20,	四百回。 空运时,包装应按 IATA DGR 第 65 版包装说明 965~967 运输。
at let a	海运时,包装应按《国际海运危险货物规则》第 41-22 版第 188 条特别规定运输。
murry murry mur	公路运输时,包装应符合《欧洲危险货物国际公路运输协定》(ADR)第 188 条的特别规定。
THE TO ST	This report applies to transportation of by air or by sea or by road.
wir war like	The Li-ion BATTERY PACK BL2411-Ex has passed the test Section 38.3 of Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria.
The Collinson	The transportation of lithium cells and batteries is regulated by the International Civil
t at at	Aviation Organization, International Air Transport Association, International Maritime Dangerous Goods Code.
White Auth An	When shipped by air, package should according to packing instruction 965~967 of IATA DGR 65th Edition for transportation.
A 15 1	When shipped by sea, package should according to special provision 188 of IMDG
SLITE WITH WALL	CODE 41-22 Edition for transportation.
24. 24.	When shipped by road, package should according to special provision 188 of
A 15 15	European Agreement concerning the International Carriage of Dangerous Goods by
LIE OLIV WALL	Road (ADR) for transportation.
UN 号 UN Number:	3480/3481
类别 Class:	The site with the second secon
包装登记 Packing	T will be the test the wife with white white
group:	
EmS 编号 EmS No.:	F-A, S-I
运输名称 Proper shipping name:	锂离子电池 Lithium Ion Batteries
包装标志	每个包装须贴上锂电池标签。
Packaging Mark:	Each package must be labeled with a lithium battery label.
包装方法	
Packaging	无可用信息
Method:	No information is available
运输方式	空运/海运/陆运
Transport	By air /By sea/By road
Fashion:	by all /by 3ca/by road
运输注意事项	运输前检查集装箱包装是否完整、严密。运输过程中无泄漏、无坍塌、无沉淀、无
Transport	损坏。不要把货物与腐蚀性化学品放在一起。中途停留应远离火源和热源。
Transport	顶州。

Page 9 of 9

Reference No: WTX23D12262360B

Attentions:	Examine whether the package of the containers are integrate and tight-closed or
the set of	not before transport. No divulgence, no collapse, no precipitation or no damage
West will all	during the course of transportation. Don't put the goods together with corrosive
200	chemicals. Stopovers should be away from fire and heat sources

第十五部分 一 法规信息 Section 15 - Regulatory Information

法规信息	6
Regulatory	
Information	

ISO 11014-2009 化学产品安全数据表-章节内容和顺序。 GB/T 16483-2008 化工产品安全数据表章节内容及顺序

国际海上《危险品运输规则》(IMDG)

国际航空运输协会(IATA)《危险品运输规则》,第 65 版,2024年。

欧洲危险货物国际公路运输协定 国际铁路危险货物运输条例

美国交通部(DOT)

全球化学品统一分类和标签制度

ISO 11014-2009 Safety data sheet for chemical products – Content and order of sections.

GB/T 16483-2008 Safety data sheet for chemical products - Content and order of sections The international Maritime Dangerous Goods (IMDG) Code International Air Transport Association (IATA) Dangerous Goods Regulations, 65th,

The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

The Regulations Concerning the International Transport of Dangerous Goods by Rail (RID)

U.S. Department of Transportation (DOT)

Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

第十六部分 一 附加信息 Section 16 - Additional Information

附加信息 Additional Information:

以上信息是基于我们所知的数据,并被认为是正确的数据。由于本信息可能在我们 无法控制的情况下应用,并且可能不熟悉这些情况,并且由于本信息数据之后提供 的数据可能表明对信息进行了修改,因此我们对其使用结果不承担任何责任。提供 此信息的条件是,接收信息的人员应自行确定材料是否适合此特定用途。

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the result of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for this particular purpose.

===== 报告结束 End of Report======