



# Lithium Battery Safety Document – Section II or Section IB Shipments

AWB or Tracking Number: \_\_\_\_\_

This document may be used to comply with the additional documentation requirements of the IATA DGR.

**WARNING:** LITHIUM BATTERIES THAT HAVE BEEN RECALLED BY THE MANUFACTURER FOR SAFETY REASONS **MUST NOT** BE SHIPPED BY AIR.

### Terminology:

- Cell – *electrochemical unit, consisting of an anode and a cathode, capable of generating electrical current*
- Battery – *assembly of cells*
- Lithium ion cells/batteries – *generally rechargeable – includes lithium polymer cells/batteries*
- Lithium metal cells/batteries – *non-rechargeable*

This shipment contains lithium cells or batteries in the following configuration (check applicable description):

Lithium Ion - Maximum of <ul style="list-style-type: none"> <li>• 20 Watt-hours per cell or</li> <li>• 100 Watt-hours per battery</li> </ul>	Lithium Metal – Maximum of <ul style="list-style-type: none"> <li>• 1 gram of lithium metal per cell or</li> <li>• 2 grams of lithium metal per battery</li> </ul>
<input type="checkbox"/> <b>Cells or batteries only</b> (Lithium ion batteries in compliance with Section II of PI 965, UN 3480) - <i>Cells or batteries in a package, without electronic equipment:</i> <b>Package Limit:</b> ≤2.7 Wh = 2.5 kg; <u>or</u> >2.7 Wh but ≤ 20 Wh = 8 cells; <u>or</u> >2.7 Wh but ≤ 100 Wh = 2 batteries	<input type="checkbox"/> <b>Cells or batteries only</b> (Lithium metal batteries in compliance with Section II of PI 968, UN 3090) - <i>Cells or batteries in a package, without electronic equipment.</i> <b>Package Limit:</b> ≤0.3 g = 2.5 kg; <u>or</u> >0.3 g but ≤ 1 g = 8 cells; <u>or</u> >0.3 g but ≤ 2g = 2 batteries
<input checked="" type="checkbox"/> <b>Cells or batteries only</b> (Lithium ion batteries in compliance with Section IB of PI 965, UN 3480) - <i>Cells or batteries in a package, without electronic equipment</i> <i>Packages must be limited to 10 kg net weight of batteries.</i>	<input type="checkbox"/> <b>Cells or batteries only</b> (Lithium metal batteries in compliance with Section IB of PI 968, UN 3090) - <i>Cells or batteries in a package, without electronic equipment</i> <i>Packages must be limited to 2.5 kg net weight of batteries..</i>
<input type="checkbox"/> <b>Packed with equipment</b> (Lithium ion batteries in compliance with Section II of PI 966, UN 3481) - <i>Cells or batteries contained in a package with associated electronic equipment.</i>  <i>Packages must be limited to 5 kg net weight of batteries.</i>	<input type="checkbox"/> <b>Packed with equipment</b> (Lithium metal batteries in compliance with Section II of PI 969, UN 3091) - <i>Cells or batteries contained in a package with associated battery-powered equipment – with the batteries not installed in the equipment.</i> <i>Packages must be limited to 5 kg net weight of batteries.</i>
<input type="checkbox"/> <b>Contained in equipment</b> (Lithium ion batteries in compliance with Section II of PI 967, UN 3481) - <i>Cells or batteries installed in equipment.</i> <i>Packages must be limited to 5 kg net weight of batteries.</i>	<input type="checkbox"/> <b>Contained in equipment</b> (Lithium metal batteries in compliance with Section II of PI 970, UN 3091) - <i>Cells or batteries installed in equipment.</i> <i>Packages must be limited to 5 kg net weight of batteries.</i>

- This package must be handled with care. A flammability hazard exists if the package is damaged.
- If this package is damaged in transportation, it must not be loaded until the condition of the contents can be verified. The batteries contained in this package must be inspected for damage and may only be repacked if they are intact and protected against short circuits.
- For more information about the batteries contained in this package, call the following telephone number:

**CHEMTREC for Lithium Battery Information Number:**

**For EMERGENCY information call 800-424-9300 or outside the United States call 703-527-3887**



210-06806+A1



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File Number: SDS\_9063\_QX\_2026\_R01  
Date: 2026-01-01

## Section 1 -- Product and Company Identification

Product Name: Rechargeable Li-ion Battery

Product Model No.: NTP2S1P-V

Inventus Part No: 9063

**MANUFACTURING SITE:**

Inventus Power, Inc.

1200 Internationale Parkway, Woodridge IL 60517

**EMERGENCY TELEPHONE NUMBER:**

Inside the US: 1-800-424-9300

Outside the US: 1-703-527-3887

**FACTORY SITE:**

Name: ICC Electronics (Dongguan) Ltd.

Address1: No.23, Shang Yuan Road, QingXi Town, Dongguan City, Guangdong Province, China

Telephone number: +86 769 87731085

Emergency telephone number: +86 769 87731085

## Section 2 -- Composition / Information on Ingredients

**Battery Product Matrix**

Inventus Power P/N	Customer P/N	Pack Configuration	Pack Nominal Voltage V	Pack Nominal Capacity (Ah)	Pack Energy (Wh)
9063	/	2S1P	7.2	1.9	13.68



Printed in USA

### Battery Chemical Composition:

Component	Material	Formula	CAS Number	Percentage range (wt. %)
Positive Electrode	Lithium Nickel Cobalt manganese Oxide	LiNiMnCoO2	182442-95-1	25~33%
Negative Electrode	Graphite	C	7782-42-5	15~25%
Electrolyte	Ethylene Carbonate	C <sub>3</sub> H <sub>4</sub> O <sub>3</sub>	96-49-1	2~5%
	Diethyl Carbonate	C <sub>5</sub> H <sub>10</sub> O <sub>3</sub>	105-58-8	2~5%
	Lithium Hexafluorophosphate	LiPF <sub>6</sub>	21324-40-3	15-22%
Outer case	Aluminum	Al	7429-90-5	5%
	Copper	Cu	7440-50-8	5%
	Iron	Fe	7439-89-6	5%

## Section 3-- Hazards Identification

Under normal usage, there is no contact with electrolyte and no hazard exists. Abusive conditions such as crush, severe drop, puncture etc. must be avoided as that can lead to fire and explosion of the battery. If exposed to high temperature or fire, cell may leak electrolyte and in extreme cases explode. The vented gas may contain among others Hydrogen Fluoride.

The information in this section relates to unusual conditions resulting from abuse in which the battery electrodes and electrolytes are exposed.

Most severe hazard present in case of fire. Fire can cause explosion, exposure to toxic fume/Vapor

i. GHS Classification

Skin irritation	(Category 2)
Skin sensitization	(Category 1)
Eye irritation	(Category 2)
Single target organ, toxicity, single exposure	(Category 3)
Carcinogen	(Category 1B)

ii. GHS Label elements, including precautionary statements

Pictograms



Signal word

Danger/Warning

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iii. Hazard statements

H315 Causes skin irritation in case of breach of battery casing  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation in case of leak or spill of electrolyte, again under abuse conditions  
H335 May cause respiratory irritation when exposed to fumes from fire, but not under normal usage conditions  
R10 Flammable

iv. Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection / face protection.  
P312 Call a POISON CENTER or doctor/ physician if exposed to fumes or electrolyte  
P313 Get Medical Attention  
P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

## Section 4 -- First Aid

Under normal operating condition, contents of the cells are in sealed (polymer pouch/metal can or cylinder) condition and pose no threat to the user.

Exposure to the cell internal content happens under abusive conditions.

**Inhalation:** Contents of open battery may cause respiratory irritation. Move to fresh air immediately and seek medical attention.

**Skin:** Contents of open battery may cause skin irritation. Wash skin with copious amount of soap and water.

**Eye:** Contents of open battery may cause eye irritation. Flush eyes immediately with water for at least 15 minutes and seek medical attention.

**Ingestion:** Seek medical attention immediately. Induce vomiting.

## Section 5 -- Fire Fighting

In case of Fire use CO2 ,CLASS ABC or if AVD fire extinguisher.

In case battery burns with other combustible, use corresponding fire extinguisher. Corrosive fumes may be present during fire. Use protective equipment (gloves, breathing apparatus, goggles etc.)

Gases from the burning fire will include Hydrogen Fluoride, Carbon oxides, Hydrocarbons among others.

## Section 6 -- Accidental Release

Battery material is enclosed in either metal casing or in laminate and does not release easily under normal usage. Under abuse condition such as puncture, high heat exposure, electrical abuse electrolyte containing vinyl chloride salt in organic solvent may leak out. See section 4 for first aid measure. Seek medical attention.

Contain the spillage with sand or vermiculite and if necessary bunding.

Do not dispose of spillage waste into regular waste stream.

## Section 7 -- Instructions on Safe Handling and Use

**Storage:** Store within the recommended temperature limit of the battery (read instruction manual for specific limits). Do not expose to high temperature (60°C/140°F). Avoid short circuit of the battery. Short circuit of the battery may cause release of gas and may pose burn hazard.

**Handling:** Do not disassemble, crush, or otherwise abuse the battery. Do not open the battery.

**Charge:** Charge only with dedicated/specific chargers designed for this battery

**Discharge:** Discharge within the temperature limits of the battery detailed in the specification.

**Disposal:** Dispose/Recycle according to the applicable municipal, state, and federal regulations. Do not dispose in household or commercial waste bin.

**Caution:** This battery when abused may pose fire, explosion, and severe burn hazard. Handle with caution.

## Section 8 -- Exposure Control and Special Protection Information

Control Parameters:

Components with workplace controls:

Graphite CAS 7782-42-5	TWA	2.5 mg/m <sup>3</sup>	USA, NIOSH recommended exposure limits
		5 mg/m <sup>3</sup>	USA, OSHA limits for air contaminants
		5 mg/m <sup>3</sup>	USA, OSHA occupational exposure limits
		3 mg/m <sup>3</sup>	Australian workplace exposure standards for airborne contaminants
	TWA	2 mg/m <sup>3</sup>	Canada, British Columbia OEL
Lithium CAS 21324-40-3 hexafluorophosphate	TWA	5 mg/m <sup>3</sup>	Canada, Alberta OEL
		5 mg/m <sup>3</sup>	Canada, Quebec OELs
		2.5 mg/m <sup>3</sup>	USA, OSHA limits for air contaminants
	TLV	2.5 mg/m <sup>3</sup>	USA, OSHA occupational exposure limits
		2.5 mg/m <sup>3</sup>	USA, ACGIH Threshold Limit Value
		2.5 mg/m <sup>3</sup>	Australian workplace exposure standards for airborne contaminants
TWA	2.5 mg/m <sup>3</sup>	Canada, British Columbia OEL	
TWAEV	2.5 mg/m <sup>3</sup>	Canada, Alb. OEL	
TWAEV	2.5 mg/m <sup>3</sup>	Canada, Quebec OELs	

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**Engineering Controls:**

Have eye bath available.

Use non-sparking tools.

**Protective Equipment:** Wear chemical-resistant gloves and chemical safety goggles.

**Hygiene:** Follow good industrial hygiene procedures. Keep away from food, beverages.

Use safety precautions for handling high voltage, high wattage battery.

Use safety goggles, acid resistant safety gloves, air mask if exposed to internal content of the cell/battery.

## Section 9 -- Physical and Chemical Properties

Appearance: Solid

Form Factor: Mostly rectangular

Odor: N/A

PH: N/A

Flash Point: N/A

Density: N/A

Solubility: Insoluble in Water

## Section 10 -- Stability and Reactivity

Not reactive under normal condition of usage.

Note safe handling procedure.

Avoid high temperature, high humidity and mechanical abuse, short circuit, and sparks

Read label and manufacturer instruction before usage and disposal

## Section 11 -- Toxicological Effect

**Acute Toxicity:**

Not known for Lithium Nickel Cobalt manganese Oxide, Aluminum, and Graphite

Copper causes gastrointestinal disturbance in 60-100mg sized coarse particulate. TDLo- Rabbit 375mg/kg

Organic electrolyte LD50, oral - -Rat 2000mg/kg or more

**Local Effects:**

Not known for Lithium Cobaltite, Graphite and Organic Electrolyte or Lithium Phosphate.

Aluminum has no known local effects.

Copper in coarse particulate is eye irritant

No known carcinogen in this product.

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## Section 12 -- Ecological Information

Battery is not biodegradable. Do not dispose in landfill. Please follow local regulations regarding recycle and disposal.

No data available on aquatic toxicity, Bio accumulative potential, Mobility in soil.

## Section 13 -- Disposal Information

Dispose/Recycle according to the applicable municipal, state, and federal regulations. Do not dispose in household or commercial waste bin or stream. Battery label contains Eu Battery directive compliant marking. Follow local and federal regulations for disposal and recycle of lithium-ion batteries.

## Section 14 -- Transportation Information

Proper Shipping Name: Lithium-Ion Batteries.

The UN number for the battery pack is UN3480, and it also can be UN3481 when the battery pack is contained in the equipment or packed with the equipment.

The battery meets the requirements of the test in the United Nations (UN) Manual of Tests and Criteria, Part III, sub-section 38.3

DOT: Refer to Attachment ERG 2024 guide 147 (Lithium-Ion battery Guide)

IMDG: Refer to IMDG/Ocean Transport ENS F-A, S-I

IATA: Refer to IATA-ICAO/Air Transport ERG CODE 12FZ

When large number of batteries are transported by ship, vehicle and railroad, avoid high temperature and dew condensation.

Avoid transportation which may cause damage of package.

## Section 15 -- Regulatory Information

This product is considered an article under the chemical inventories listed below and consequently is exempt from listing on these inventories:

- US EPA Toxic Substance Control Act (TSCA)
- European Inventory of Existing Chemical Substances (EINECS/ELINCS)
- Other International Regulations

Transport of rechargeable lithium-ion batteries is regulated by various bodies, (IATA, IMO, US-DOT) that follow the United Nations "Recommendations on the Transport of Dangerous Goods.

Regulations specifically applicable to the product:

ICAO 2025/2026 Edition of ICAO Technical Instructions for the Safety Transport of Dangerous Goods by Air  
IMO IMDG Amendment 42-24 2024 Edition. battery pack complies with the special provision 188 of the IMDG CODE.

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IATA 67th Edition (2026) of the IATA Dangerous Goods Regulations (DGR),  
 US Department of Transportation DOT (49 CFR 100-185), (USA)  
 OSHA hazard communication standard (29 CFR 1910.1200)

The battery is complied with the requirements of PI965, IB for Packs <100Wh  
 Batteries shipped with or contained in equipment must follow IATA Packing Instruction 966, Section II or PI967,  
 Section II.  
 Shipment must accompany dangerous goods shipping paper.  
 Employees handling lithium-ion batteries must receive dangerous goods/hazmat training.

## Section 16 -- Other Information

The information contained in this Safety data sheet is based on the present state of knowledge and current legislation.  
 This safety data sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for applications.  
 Although the electrolyte contains chemicals that by itself can cause harm, it is not present in an amount or form to cause splash.

**SAFETY DATA SHEET**  
**安全技術說明書**

Issued/Revised date 發佈/更改日期: January 01 2026

Document No 文件編號.: NE-260101002

**1. Product and Company Identification 產品與廠商資料**

Product Name 產品名稱	Lithium-Ion Rechargeable Battery Pack
Product Description 產品描述	SDI/INR18650-20S/min 2000mAh, 2S1P
Model Name 型號	Vino 2C (NTP2S1P-V)
Manufacturer Part Number 製造商零件編號	A0XQ2005F/ A0XQ2005FB
Customer Part Number 客戶零件編號:	271-00078
Rating Watt hour (WH) 電池電力(瓦小時)	10.15Wh
Lithium content (gram) 鋰含量 (克)	1.2g

**Details of the supplier of the product 產品供應商的詳細訊息:**

Company (Taiwan) 台灣總公司	Name名稱	SIMPLO TECHNOLOGY CO., LTD. 新普科技股份有限公司
	Address地址:	No. 471 Pa Teh Rd, Sec 2 Hu Kou, Hsinchu Hsien, 303103 Taiwan 台灣, 新竹縣湖口鄉八德路二段471號
	Telephone電話	+886-3-5695920
	Fax傳真	+886-3-5695931
Manufacturer (Changshu) 製造商 (常熟廠)	Name名稱	SIMPLO TECHNOLOGY(CHANGSHU)INC. 新世電子(常熟)有限公司
	Address地址	No.888 Dongnan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu, China 中國, 江蘇省常熟市高新技術產業開發區東南大道888號
	Telephone電話	+86-512-52302255
	Fax傳真	+86-512-52302277
Manufacturer (Chongqing) 製造商 (重慶廠)	Name名稱	SIMPLO TECHNOLOGY(CHONGQING) INC 新普科技(重慶)有限公司
	Address地址	NO.2 Zongbao Avenue Shapingba District, Chongqing China 中國, 重慶市沙坪壩綜保大道二號
	Telephone電話	+86-23-61718899
	Fax傳真	+86-23-61710488
Manufacturer (HUAPU)	Name名稱	HUAPU TECHNOLOGY(CHANGSHU)INC.



製造商 (華普廠)		華普電子(常熟)有限公司
	Address地址	No.888 Dongnan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu, China 中國, 江蘇省常熟市高新技術產業開發區東南大道 888 號
	Telephone電話	+86-0512-52302255
	Fax傳真	+86- 0512-52302277
Manufacturer (VIETNAM) 製造商 (越南廠)	Name名稱	SIMPLO TECHNOLOGY (VIETNAM) CO., LTD 新普科技 (越南) 有限公司
	Address地址:	Lot CNSG-07, Van Trung Industrial Park, Van Trung Commune, Viet Yen District, Bac Giang Province, Vietnam 越南北江省越安縣雲中社雲中工業區 CNSG-07 地塊
	Telephone電話	+84-204-3688802
Manufacturer (VIETNAM) 製造商 (越南廠)	Name名稱	SIMPLO TECHNOLOGY (VIETNAM) CO., LTD. 新普科技 (越南) 有限公司
	Address地址:	Lot CN-08, Hoa Phu Industrial Park, Xuan Cam Commune, Bac Ninh Province, Vietnam 越南北寧省春錦社和富工業區 CN-08 地塊
	Telephone電話	+84-020-436-88800
<b>Emergency phone number 緊急電話: +886-3-5695920</b>		

## 2.Hazard(s) identification 危害識別

\*The battery is considered as an 「 article 」 The product is outside of the scope of GHS system  
 電池被視為「成品」, 產品不在GHS體系涵蓋範圍內

Main Hazards主要危害	When the battery is in extreme pressure deformation, high-temperature environment, overload, short-circuit condition, or disassemble the battery, an explosion of fire and chemical burn hazards may occur. 當電池處於擠壓變形、高溫環境、過載、短路狀態或拆卸電池時, 可能會發生爆炸火災和化學灼傷危險。
Health Hazards健康危害	Contact with the electrolyte of battery may be irritating to skin. eyes and mucous membranes. Fire will produce irritating corrosive and/or toxic gases. Fumes may cause dizziness or suffocation 與電池電解液接觸可能會刺激皮膚。眼睛和粘膜。火災會產生刺激性的腐蝕性和/或有毒氣體。煙霧

	可能導致頭暈或窒息。
Description of any hazards not otherwise classified 其他未分類危險性說明	Do not dismantle, open or shred the battery, the ingredients contained within could be harmful. 請勿拆卸、打開或撕碎電池，其中含有的成分可能有害
Ingredient with unknown acute toxicity 未知的急性毒性成份	No information available. 無資料

### 3. Composition / Identification on Ingredients 成分組成信息

Mixtures information: ingredients contained within the battery

混合物信息：電池中包含的成分

Chemical name 化學名稱	CAS No.化學品編號	Weight-%重量%
Lithium Nickel Oxide	12325-84-7	30.00%
Graphite	7782-42-5	25.00%
iron	7439-89-6	15.00%
copper	7440-50-8	8.00%
Methyl-propionate	554-12-1	3.00%
aluminium	7429-90-5	3.00%
cobalt lithium dioxide	12190-79-3	3.00%
dimethyl carbonate	616-38-6	2.00%
lithium hexafluorophosphate(1-)	21324-40-3	2.00%
4-Fluoro-1,3-dioxolan-2-one	114435-02-8	2.00%
Poly(ethylene)	9002-88-4	2.00%
Carbon black	1333-86-4	1.00%
1-methyl-2-pyrrolidone	872-50-4	1.00%
diiron trioxide	1309-37-1	1.00%
Boehmite (Al (OH)O)	1318-23-6	1.00%

The exact percentage (concentration) of composition has been withheld as a trade secret

組成的精確百分比（濃度）已作為商業機密保留

### 4. First Aid Measures 急救措施

#### (a) Description of first aid measures 急救措施說明

Caution! No effect under routine handling and use. If exposure to internal materials within cell due to damaged outer metal casing, the following actions are recommended.

警告！在日常處理和使用下沒有影響。如果由於外部金屬外殼損壞而接觸到電池內部材料，建議採取以下措施。



Inhalation: 吸入	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell. 將傷者轉移到空氣新鮮處，保持呼吸舒適的休息姿勢。如果您感到不適，請就醫。
Skin contact: 皮膚接觸	Immediately flush skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing and shoes before reuse. Get medical aid. 若接觸到電池內物質，脫去受污染的衣物和鞋襪，立即用清水沖洗15分鐘以上。若刺激持續請就醫。
Eye contact: 眼睛接觸	Rinse cautiously with water for 15-20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. 若接觸到電池內物質，用水小心沖洗 15-20 分鐘。取下隱形眼鏡（如果有且易於操作）。若眼睛刺激持續請就醫
Ingestion 食入	Swallowing battery will be damaged to the respiratory tract and cause chemical burns to the stomach; in serious conditions it will cause Permanent damage. 食入會對呼吸道產生傷害、對腸胃產生燒傷，嚴重會造成永久性損害

### (b) Most important symptoms/effects, acute and delayed 主要症狀，急性和遲發性效應

No effect under routine handling and use 在日常處理和使用下沒有影響

### (c) Immediate medical attention and special treatment 醫療護理和特殊治療

Note to physicians: Treat symptomatically and supportively. 醫生須知：對症治療。

## 5. Fire Fighting Measures 滅火措施

General Hazard 一般危害	The battery is not flammable under normal conditions. If the battery is incinerated, punctured, or exposed to excessive heat, internal organic materials can ignite. Combustion products may include, but are not limited to: hydrogen fluoride (HF), carbon monoxide (CO), and carbon dioxide (CO <sub>2</sub> ). 電池在正常情況下不易燃。若電池焚燒、穿刺或暴露於高溫，內部有機物料可能燃燒。燃燒產物可能包括但不限於：氫氟酸 (HF)、一氧化碳 (CO) 及二氧化碳 (CO <sub>2</sub> )
Extinguishing Media	Dry chemical powder (ABC or Class D) - suitable for

<p>滅火媒介</p>	<p>metal and lithium-ion fires.          Carbon dioxide (CO<sub>2</sub>) - suitable for small fires.          Foam - may be used for surface fires.          Sand or dry earth - can smother small battery fires.          Water - can be used for cooling adjacent batteries, but avoid direct contact with burning lithium-metal cells.          乾粉滅火器 (ABC 或 D 類) - 適用於金屬及鋰離子電池火災。          二氧化碳滅火器 (CO<sub>2</sub>) - 適用於小規模火災。          泡沫滅火器-可用於表面火災。          沙土或乾土-可覆蓋小型電池火災以隔絕氧氣。          水-可用於冷卻鄰近電池，但避免直接噴灑燃燒的鋰金屬電池。</p>
<p>Special Firefighting Instructions          特殊消防指示</p>	<p>Remove batteries from the fire area if it is safe to do so. Batteries may explode or vent if heated above 125°C (257°F). Use caution when spraying water on large battery fires to prevent short-circuits or violent reactions.          若安全，應將電池從火場移開。          若電池溫度超過 125°C，可能爆炸或釋放氣體。          對大型電池火災噴水時需小心，以免短路或劇烈反應。</p>
<p>Firefighting Equipment / Personal Protection          消防裝備/個人防護</p>	<p>Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA).          Wear full protective firefighting gear including gloves, helmet, and protective clothing.          使用經 NIOSH/MSHA 認證的全罩式自給式呼吸器 (SCBA)。配戴完整防護消防裝備，包括手套、頭盔及防護衣物。</p>

## 6. Accidental Release Measures 洩漏處理方法

<p>Personal precautions, protective equipment and emergency procedures          作業人員防護措施、防護設備和應急處置程式</p>	<p>Personal Precautions: Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.          作業人員注意事項：避免接觸皮膚、眼睛或衣服。確</p>
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	保作業場所通風充足，根據需要使用個人防護裝備，疏散人員到安全區域。
Methods and materials for containment and cleaning up 洩露化學品的收容和清理方法	<p>Methods for Containment: Prevent further leakage or spillage if safe to do so.</p> <p>Methods for cleaning up: Pick up and transfer to properly labeled containers.</p> <p>抑制方法：在安全的情況下防止進一步洩漏或溢出。</p> <p>清理方法：撿起並轉移到張貼適當標籤的容器中。</p>

## 7. Handling and Storage 處理和儲存

Precautions for safe handling 安全處理的注意事項	<p>Do not expose the battery to excessive physical shock or vibration. Short-circuiting should be avoided. However, accidental short-circuiting for a few seconds will not seriously affect the battery. Prolonged short circuits will cause the battery to rapidly lose energy, could generate enough heat to burn skin. Sources of short circuits include jumbled batteries in bulk containers, coins, metal jewelry, metal covered tables, or metal belts used for assembly of batteries in devices. To minimize risk of short-circuiting, the protective case supplied with the battery should be used to cover the terminals when transporting or storing the battery. Do not disassemble or deform the battery. Should an individual cell within a battery become ruptured, do not allow contact with water.</p> <p>不要讓電池受到過度的物理衝擊或振動。應避免短路。但是，幾秒鐘的意外短路不會對電池造成嚴重影響。長時間的短路會導致電池迅速失去能量，可能產生足夠的熱量來灼傷皮膚。短路的來源包括散裝容器中的雜亂電池、硬幣、金屬首飾、金屬覆蓋的桌子或用於在設備中組裝電池的金屬帶。為將短路風險降至最低，在運輸或存放電池時，應使用電池隨附的保護盒蓋住端子。請勿拆卸或變形電池。如果電池中的單顆電池發生破裂，請勿與水接觸。</p>
Conditions for safe storage, including any incompatibilities	The lithium ion battery should be between 25% and 75% of full charge when stored for a long period of

<p>安全儲存條件，包括任何不相容性</p>	<p>time. Stored in a cool, dry, and well-ventilated area. Elevated temperatures can result in loss of battery performance, leakage, or rust. Do not expose the battery to open flames.</p> <p>鋰離子電池在長時間存放時應充滿電量的 25% 至 75%。存放在陰涼、乾燥、通風良好的地方。溫度升高會導致電池性能下降、洩漏或生鏽。不要將電池暴露在明火中。</p>
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## 8. Exposure Controls / Personal Protection 接觸控制/個人防護

<p>Appropriate Engineering Controls 適當的工程控制</p>	<p>Choose the suitable ventilation equipment; provide sufficient quantity of fire extinguishers, gas mask and water; equip with metal storage containers and bathing equipment</p> <p>選擇合理的通風設備，提供足夠數量的防毒面具滅火器及水源，配置存放電池的金屬容器和洗浴設備</p>
<p>Respirator Protection 呼吸系統防護</p>	<p>If toxic gases or fumes are present when handling a battery leak, wear appropriate respiratory protection (such as a gas mask).</p> <p>若處理電池洩漏時有有毒氣體或煙霧，佩戴適當的呼吸防護裝備（如防毒面具）。</p>
<p>Eye/Face Protection 眼睛/面部防護</p>	<p>Avoid contact with leaking liquid in the eyes; wear safety goggles if necessary.</p> <p>避免洩漏液體進入眼睛，必要時佩戴護目鏡。</p>
<p>Skin Protection 皮膚防護</p>	<p>Hand protection: Wear safety gloves Foot Protection: Steel toed shoes recommended for large container handling Body protection: Wear appropriate protective clothing</p> <p>手部防護，請佩帶安全手套。 足部防護，處理大量電池時建議穿著鋼頭鞋 身體防護：穿戴一般作業防護服。</p>
<p>Other Protection 其他防護</p>	<p>No smoking, drinking and eating at working site, Wash thoroughly after handling</p> <p>工作場所嚴禁吸菸、進食和飲水。工作後淋浴更衣</p>

## 9. Physical and Chemical Properties 物理和化學特性



<b>Physical Properties</b> 物理特性	Physical state 物理狀態	Solid 固體
	Appearance 外觀	Black Plastics or Mylar film shell 黑色塑膠或聚酯薄膜外殼
	Color 顏色	Black 黑色
	Odor 氣味:	Odorless 無味
	Odor Threshold 嗅覺閾值	No information available 無資料
<b>Chemical Properties 化學特性:</b>		
<b>Property 特性</b>	<b>Values 值</b>	<b>Remarks/ Method 備註</b>
pH 酸鹼度	No data available無資料	None known未知
Melting / freezing point 熔點和冰點	No data available無資料	None known未知
Boiling point / boiling range 沸點/沸程	No data available無資料	None known未知
Flash Point 閃點	No data available無資料	None known未知
Evaporation Rate 蒸發率	No data available無資料	None known未知
Flammability (solid, gas) 易燃性 ( 固體、氣體 )	No data available無資料	None known未知
Flammability Limit in Air 空氣中的易燃性限制 Upper/ Lower flammability 上下燃點限制	No data available無資料	-
Vapor pressure 蒸氣壓力	No data available無資料	None known未知
Vapor density 蒸汽密度	No data available無資料	None known未知
Specific Gravity 比重	No data available無資料	None known未知
Water Solubility 水溶性	No data available無資料	None known未知
Solubility in other solvents 其他溶劑中的溶解度	No data available無資料	None known未知
Partition coefficient n-octanol/water: n-辛醇/水分配係數(對數值)	No data available無資料	None known未知
Autoignition temperature 自燃溫度	130°C	None known未知
Decomposition temperature 分解溫度	No data available無資料	None known未知
Kinematic viscosity 運動黏度	No data available無資料	None known未知
Dynamic viscosity 動態黏度	No data available無資料	None known未知

Explosive properties 爆炸特性	No data available無資料	None known未知
Oxidizing Properties 氧化特性	No data available無資料	None known未知

## 10. Stability and Reactivity 安定性與反應性

Reactivity 反應性	None during normal operating or handling conditions. 在正常操作或處理條件下,無不良反應。
Chemical stability 化學穩定性	It is stable under normal operating conditions, but damage to the casing, overcharging, or over discharging may lead to thermal runaway, causing fire or explosion. 在正常操作條件下穩定,但若外殼破損、過充或過放可能引發熱失控,導致火災或爆炸。
Possibility of Hazardous Reactions 發生危險反應的可能性	None under normal processing 正常處理下,無
Hazardous reaction 危險反應	It may react violently when in contact with water or moisture. 與水或濕氣接觸時,可能發生劇烈反應。
Conditions to avoid 應避免的條件	Avoid high temperatures, moisture, extreme mechanical pressure, or excessive charging and discharging. 避免高溫、濕氣、極端機械壓力或過度充放電。
Incompatible materials 不相容物質	Strong acids. Strong oxidizing agents. Strong bases. 強酸。強氧化劑
Hazardous Decomposition Products 危險分解產物	Carbon oxides. 碳氧化物。

## 11. Toxicological Information 毒性學信息

### (a) Information on the likely routes of exposure 可能接觸的途徑

Product Information 產品資訊	Product does not present an acute toxicity hazard based on known or supplied information. In case of rupture 如有破裂,根據已知或提供的資訊,產品不存在急性毒性危害。
Inhalation 吸入	No effect under routine handling and use for sealed battery. If battery is broken, inhale fume/dust may cause irritation, chemical burns or lung edema. 密封電池在常規處理和使用下無影響。如果電池壞了,吸入煙霧/灰塵可能會引起刺激、化學灼傷或肺水腫。
Eye Contact 眼部接觸	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to eyes.

	May cause redness, itching, and pain. May cause temporary eye irritation. 沒有關於該物質或混合物的具體測試資料。成分可能是刺激物，刺激眼睛，可能會引起發紅、搔癢和疼痛可能會引起暫時性的眼睛刺激。
Skin Contact 皮膚接觸	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to skin. Prolonged contact may cause redness and irritation. 沒有關於該物質或混合物的具體測試資料。成分可能是刺激物，長時間的接觸皮膚可能會引起發紅和刺激
Ingestion 食入	Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. 沒有關於該物質或混合物的具體測試資料。食入可能會刺激粘膜，也可能引起胃腸道刺激、噁心、嘔吐和腹瀉。

**(b) Information on toxicological characteristics 毒理學特徵信息**

This product does not elicit toxicological properties during routine handling and use. If the cells are opened through misuse or damage, discard immediately. Internal components of cell are irritants and sensitizers. 本產品在日常處理和使用過程中不會產生毒理學特性。如果電池因誤用或損壞而打開，請立即丟棄。內部成分是刺激物和過敏原。

Acute Toxicity 急性毒性	No information available. 無資料
Skin corrosion/irritation 皮膚腐蝕/刺激	No information available. 無資料
Serious eye damage/irritation: 嚴重的眼睛損傷/刺激	No information available. 無資料
Respiratory sensitization呼吸過敏	No information available. 無資料
skin sensitization皮膚過敏	No information available. 無資料
Carcinogenicity致癌性	No information available. 無資料
Germ Cell Mutagenicity生殖細胞致突變性:	No information available. 無資料
Reproductive Toxicity生殖毒性	No information available. 無資料
STOT-Single Exposure特定目標器官毒性-單次接觸	No information available. 無資料
STOT-Repeated Exposure特定目標器官毒性-重覆接觸	No information available. 無資料
Aspiration Hazard吸入危害	No information available. 無資料

**12. Ecological Information 生態學信息**

Ecotoxicity 生態毒性	No information available. 無資料
Persistence and Degradability 持久性和降解度	No information available. 無資料
Bioaccumulations Potential 潛在的生物累積性	No information available. 無資料

Mobility in soil 在土壤中的流動性	No information available. 無資料
Other adverse effects 其他有害效應	No information available. 無資料

### 13. Disposal Consideration 廢棄處置

**(a) Disposal methods 處置方法:**

Disposal methods: This material, as supplied, is not a hazardous waste according to Federal regulations (40CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

根據聯辦法規(40CFR 261)·材料不是危險廢物·如果與危險廢物混合或以其他方式接觸·經過添加化學品·或加工改變·該材料可能成為危險廢物·請參考40 CFR 261·以確定已改變的材料是否為危險廢物·有關其他要求·請諮詢適當的州、地區或地方法規。

**(b) Contaminated Packaging 受污染的包裝**

Dispose of in accordance with federal, state and local regulations.

根據聯邦、州和地方法規進行處理

### 14. Transport Information 運輸信息

**(a) Only Lithium Battery During: This report applies to by land, by air by sea.**

產品為鋰離子電池單獨運輸：本報告適用於海運、空運和陸運。

Transport 運輸	The product has successfully passed the UN 38.3 tests as specified in the United Nations “Manual of Tests and Criteria for the Transport of Dangerous Goods,” as well as the 1.2 m drop test in accordance with Special Provision 188. Additionally, in compliance with IATA Packing Instruction 965, Section IB, each package must withstand a 3-meter stacking test. The total net weight of lithium batteries per package is less than 10 kg. 本產品已通過聯合國《危險貨物運輸建議書：試驗與標準手冊》(UN38.3)測試·並符合《規章範本》(SP188)中1.2米跌落測試要求。同時·依據IATA PI 965 第IB節規定·每個包裝都須能承受3米堆疊測試。產品內鋰電池總淨重小於10公斤。
RID /ADR (2025 Edition) 鐵路危險品運輸規則/歐洲道路運輸 危險品規則(2025年版)	In accordance with Special Provision SP188 of ADR/RID, transport is permitted, provided that the requirements of Section 2.2.9.1.7 (a), (e), (f) (if applicable), and (g) are met, and that the manufacturer or subsequent distributor makes available a test summary in



	<p>accordance with Part III, Section 38.3, paragraph 38.3.5 of the United Nations Manual of Tests and Criteria. Batteries shall be packed in inner packaging, outer packaging, or overpack to prevent short circuits and damage. Additional requirements may apply depending on the consignment size and road/rail transport conditions.</p> <p>根據 ADR/RID 中 特殊規定 SP188 運輸，但須符合第 2.2.9.1.7 條款中的 (a)、(e)、(f) (如適用) 及 (g) 項之要求，且製造商或後續分銷商應提供符合聯合國《試驗與標準手冊》第三部分第 38.3 小節第 38.3.5 段規定之試驗概要。電池包裝應採用內包裝 / 外包裝或加強包裝以防止短路及損傷。視運輸量及車輛 / 鐵路運輸條件，可能另有附加要求。</p>
<p>IATA DGR (67th Edition): 國際航空運輸協會的危險品規則 (67版)</p>	<p>UN3480 聯合國運輸編號 UN3480</p> <p>Transport Hazard Class: 9 運輸危險類別: 第9類</p> <p>The product shall comply with ICAO Technical Instructions / IATA DGR Packing Instruction 965, Section IB (2025–2026 Edition). Pursuant to IATA DGR (67th Edition), Section 3.9.2.6.1(g), for cells or batteries manufactured after 30 June 2003, the manufacturer and subsequent distributors shall provide a UN 38.3 Test Summary as specified in Part III, Section 38.3, paragraph 38.3.5 of the United Nations Manual of Tests and Criteria.</p> <p>State of Charge (SoC): Lithium-ion batteries must be shipped with a maximum SoC of 30% of their rated capacity. Batteries with a SoC exceeding 30% may not comply with Section IB and are subject to additional restrictions or may require alternative shipping arrangements.</p> <p>All batteries shall be properly packed, labeled, and marked in accordance with ICAO/IATA requirements to prevent short circuits, mechanical damage, and overheating during transport.</p> <p>本產品須符合 國際民用航空組織 ( ICAO ) 技術說明 / IATA DGR 包裝說明 965 部分 IB (2025~2026 版)。</p> <p>依據 IATA DGR( 第 67 版 )第 3.9.2.6.1(g) 條款，於 2003 年 6 月 30 日之後生產的鋰電池或電池組，其製造商及出廠後的銷售商應提供 聯合國《危險貨物試驗與標準手冊》第三部分第 38.3 小節、第 38.3.5 段規定的 UN 38.3 試驗摘要。</p> <p>鋰離子電池運輸時，其充電狀態不得超過額定容量的 30%。若</p>

	<p>電池充電狀態超過 30% · 則可能不符合 Section IB 的運輸要求 · 需依附加限制或採用其他運輸方式。</p> <p>電池須依照 ICAO/IATA 規定妥善包裝、標示與標籤，以防短路、機械損傷及運輸過程中過熱。</p>
<p>IMO IMDC CODE (2024 Edition)          國際海運危險貨物規則(2024 版)</p>	<p>In accordance with Section 188 of the International Maritime Dangerous Goods (IMDG) Code, Amendment 42-24, the manufacturer and post-shipment distributor of this product (lithium batteries or battery packs) shall provide a UN38.3 Test Summary as required by Section 38.3.5, Subsection 38.3, Part III of the United Nations Manual of Tests and Criteria to ensure compliance with transport safety requirements</p> <p>根據《國際海上危險貨物規範IMDG》修正案42-24版第188條規定 · 本產品 ( 鋰電池或電池組 ) 的製造商及出廠後銷售商應提供聯合國《試驗與標準手冊》第三部分第38.3小節第38.3.5段所要求的 UN38.3 試驗概要 · 以符合運輸安全要求。</p>

**(b) Test results of the UN Recommendation on the Transport of Dangerous Goods  
 聯合國關於危險貨物運輸的建議的測試結果**

Manual of Test and Criteria (38.3 Lithium battery) 測試和標準手冊 ( 38.3鋰電池 )			
No 編號	Test item 項目	Test Results 測試結果	Remark備註
T1	Altitude Simulation 高度模擬測試	Pass通過	
T2	Thermal Test 溫度測試	Pass通過	
T3	Vibration 振動測試	Pass通過	
T4	Shock 衝擊測試	Pass通過	
T5	External Short Circuit 外部短路測試	Pass通過	
T6	Impact/Crush 撞擊/擠壓測試	Pass通過	
T7	Overcharge 過度充電測試	Pass通過	
T8	Forced Discharge 強制放電測試	Pass通過	

**(c) UN regulation 聯合國法規**

UN3480	<p>Batteries only, IATA Dangerous Goods Regulations, packing instruction 965 Section IB.              單獨電池包裝，適用 IATA 危險貨物規則 · 滿足包裝說明 965 的基本要求和第 IB 部分的規定。</p>
UN3481	<p>Lithium ion batteries packed with equipment, IATA Dangerous Goods Regulations, packing instruction 966 Section II              鋰離子電池和設備一起包裝 · 適用 IATA 危險貨物規則 · 滿足包裝說明 966 的基本要求和第二部分的規定。</p>
UN3481	<p>Lithium ion batteries contained in equipment, IATA Dangerous Goods Regulations, packing</p>

instruction 967 Section II. 鋰離子電池含於設備中，適用IATA危險貨物規例，滿足包裝說明967的基本要求和第二部分的規定。
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## 15. Regulatory Information 法規信息

### (a) Applicable regulations 適用法規:

Dangerous Goods Regulations 《危險品規則》

RID /ADR 鐵路危險品運輸規則/歐洲道路運輸危險品規則

IMO International Maritime Dangerous Goods Code relevant regulations 《國際海運危險貨物規則》

Refer to U. N., national, local regulations. 參照聯合國，國家，地方性法規。

### (b) Waste disposal requirements 廢棄物處理要求:

Battery labeling, disposal, and recycling should comply with the requirements of the EU Battery Regulation (EU) 2023/1542.

電池的標籤，處置和回收應符合歐盟電池法(EU) 2023/1542.的規定

The battery pack should be recycled and processed by a professional organization.

## 16. Other Information 其他信息

### (a) Preparation and revision information 編制和修訂信息

The information contained in this Safety Data Sheet is based on the current state of knowledge and applicable regulations.

This Safety Data Sheet provides guidance regarding the health, safety, and environmental aspects of the product, but should not be construed as any guarantee of technical performance or suitability for specific applications.

The information contained herein is provided in accordance with current knowledge and legislation.

本安全數據表所載資訊均基於當前的知識狀況及現行法規。

本安全數據表提供關於產品健康、安全及環境方面的指引，但不應視為對特定應用之技術性能或適用性的任何保證。

本安全數據表所載信息均以現行知識及立法為依據。

### (b) Abbreviations and acronyms 縮略語和首字母縮寫

ACGIH	American Conference of Governmental Industrial Hygienists 美國政府工業衛生學家委員會
OSHA:	The United States Occupational Safety and Health Administration. 美國職業安全與健康管理局
GHS	Globally Harmonized System of Classification and Labelling of Chemicals

	全球化學品統一分類和標籤制度
CAS	Chemical Abstracts Service美國化學文摘社
DOT	US Department Of Transportation美國交通部
RID	Regulation for rail International transportation 國際鐵路危險貨物運輸規則
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road 關於公路運輸危險貨物歐洲協定
IMO IMDC CODE	International Maritime Organization, International Maritime Dangerous Goods Code 國際海事組織,國際海運危險或貨物規則
ICAO	International Civil Aviation Organization國際民用航空組織
IATA	International Air Transport Association國際航空運輸協會
PI	Packaging Instruction 包裝說明
TSCA	Toxic Substances Control Act, The American chemical inventory. 美國化學品有毒物質控制法
IECSC	Inventory of existing chemical substances in China. 中國現有化學物質清單

**(c) Disclaimer免責聲明**

The information contained in this Safety Data Sheet (SDS) is provided fully and accurately to the best of our knowledge. However, it is supplied without any warranty regarding its completeness or absolute accuracy. This SDS has been prepared to provide guidance on safety precautions for users who have received professional training. Individual users of this SDS should make their own independent judgment regarding its applicability under specific conditions. In such cases, we do not assume any responsibility for resulting damages.

本安全數據表 ( SDS ) 所載資訊均依據我們目前所知提供完整且準確的資料。然而，對於其完整性或絕對準確性，本公司不提供任何保證。本安全數據表旨在為受過專業培訓的使用者提供安全防護指引。個別使用者應根據具體情況自行判斷本 SDS 的適用性。在此類特殊情況下，本公司不承擔任何因使用本 SDS 所產生的損害責任。

----- End of the SDS -----

# UN38.3 Lithium Battery (Cell) Test Summary

## UN38.3 锂电池(电芯)试验概要

No. : RZUN2022-1272-M1-TS

Cell or Battery Information 电池/电芯信息		
Name 名称:	Rechargeable Lithium Ion Battery Pack / 可充式锂离子电池组	Other Physical Description: 其它相关描述: RZUN2022-1272-M1 is transformed from Original report RZUN2022-1272 which is issued on 2022.03.30./ RZUN2022-1272-M1 是 RZUN2022-1272 的变更报告, 原报告签发于 2022 年 03 月 30 日。
Type/Model 型号规格:	NTP2S1P-V 7.2V 1.9Ah 13.68Wh	
Color 颜色:	Black/黑色	
Shape 形状:	Prismatic/棱柱形	
Completed Battery/Cell Mass 电池/电芯整体质量	154.044g ~ 156.207g	
<input checked="" type="checkbox"/> Belongs to Lithium-ion Battery/Cell, the Wh rating is 属于锂离子电池/电芯, 瓦时数为	13.68Wh	
<input type="checkbox"/> Belongs to Lithium metal Battery/Cell, the Lithium content is 属于锂金属电池/电芯, 锂金属含量为		

Manufacturer Information 制造商信息			
Manufacturer: 制造商:	Inventus Power, Inc.		
Address: 地址:	1200 Internationale Parkway, Woodridge, IL 60517 USA		
Telephone 电话:	020-39298880-6802	Email 电邮:	LiGang@inventuspower.com
Website 网址:	https://inventuspower.com		

Laboratory Information 检测试验室信息					
Laboratory: 检测试验室:	CVC Testing Technology Co., Ltd. 威凯检测技术有限公司				
Address: 地址:	No.3, Tiantai 1st Road, Kaitai Avenue, Science City, Guangzhou, Guangdong, China. Building D, BASIGO INTELLIGENT, No.179, Guangpu East Road, Huangpu District, Guangzhou, P. R. China. 广东省广州市科学城开泰大道天泰一路3号 广东省广州市黄埔区光谱东路179号百事高智慧园D栋				
Tel 电话:	+86-20-32293888	Email 电邮:	office@cvc.org.cn	Website 网址:	http://www.cvc.org.cn

UN38.3 Test conducted and results UN38.3 试验项目和结果			
Test Report ID 检测报告编号:	RZUN2022-1272-M1	Date of Test Report 检测报告签发日期:	2024-12-12
Manual of Test and Criteria version / amendment: 试验和标准手册版本号/修订版:	ST/SG/AC.10/11/Rev.7/Amend.1/Section 38.3		

List of Tests Completed 已完成的试验项目清单			
Test Items 试验项目	Pass 通过	Fail 失败	Reference to assembled battery testing requirement: 关于组合电池的试验要求:
<input checked="" type="checkbox"/> T.1 Altitude Simulation 高度模拟	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Not applicable 不适用 <input type="checkbox"/> Applicable, reference to 38.3.3 (f) 适用于 38.3.3 (f) <input type="checkbox"/> Applicable, reference to 38.3.3 (g) 适用于 38.3.3 (g) Other executive standards/其他执行标准:
<input checked="" type="checkbox"/> T.2 Thermal Test 温度试验	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> T.3 Vibration 振动	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> T.4 Shock 冲击	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> T.5 External Short Circuit 外部短路	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> T.6 Impact/ Crush 撞击/ 挤压	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> T.7 Overcharge 过度充电	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> T.8 Forced Discharge 强制放电	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Note: The test results of this summary are only valid for the tested samples listed in test report RZUN2022-1272-M1.

注: 此摘要的测试结果仅对测试报告 RZUN2022-1272-M1 中列出的测试样品有效

Title/职务: Manager/经理

Signatory/签发人: 张思瑶

(张思瑶)



210-06841+B0

Printed in USA



# UN38.3 试验概要

## UN38.3 Test Summary



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单位信息 Company information			
委托单位 Consignor	新普科技股份有限公司 Simplo Technology Co., LTD. 台湾新竹县湖口乡八德路 2 段 471 号 No.471,Sec.2 Pa TehRd.,Hu Kou 303,Hsin Chu Hsien, Taiwan 88635695920                      Sting_Lin@simplo.com.tw                      http://www.simplo.com.tw/		
生产单位 Manufacturer	新普科技(重庆)有限公司 Simplo Technology (Chongqing) Inc. 重庆市沙坪坝区西永综保大道 2 号 No.2 ZONGBAO AVENUE OF CHONGQING 023-61718899                      jie_ran@simplo.com.cn                      http://www.simplo.com.tw/		
测试单位 Test lab	新普科技股份有限公司 Simplo Technology Co., LTD. 台湾新竹县湖口乡八德路 2 段 471 号 No.471,Sec.2 Pa TehRd.,Hu Kou 303,Hsin Chu Hsien, Taiwan 88635695920                      Sting_Lin@simplo.com.tw                      http://www.simplo.com.tw/		
电池信息 Battery information			
名称 Name	锂电池/锂离子电池/锂离子电 池组/可充电	品牌 Brand	/
型号 Type	NTP2S1P-V	原始测试型号 Original tested type	NTP2S1P-V
标称电压(V) Nominal voltage	7	容量/能量 Capacity/energy	1.45Ah/10.15Wh
描述 Description	可充电锂离子电池组 Rechargeable Li-ion battery	锂含量(g) Li content	/
质量(kg) Mass	0.164	外观 Appearance	黑色塑胶外壳 Black plastics cement shell
测试信息 Test information			
原报告编号 Original test report No.	SNAU-2204001	测试报告日期 Date of test report	2022-07-08
测试标准 Test standard	联合国《试验和标准手册》第 38.3 章 UNITED NATIONS Manual of Tests and Criteria 38.3		ST/SG/AC.10/11/Rev.7
T.1 高度模拟 Altitude simulation	合格 Passed	T.2 温度测试 Thermal test	合格 Passed
T.3 振动测试 Vibration	合格 Passed	T.4 冲击测试 Shock	合格 Passed
T.5 外部短路 External short circuit	合格 Passed	T.6 撞击 Impact	合格 Passed
T.7 过度充电 Overcharge	合格 Passed	T.8 强制放电 Forced discharge	合格 Passed
38.3.3 (f)	/	38.3.3 (g)	/



210-06642-A2





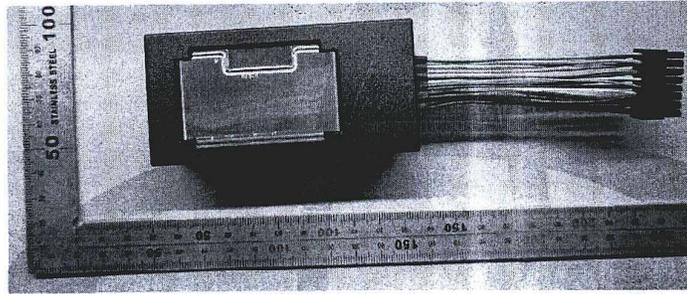
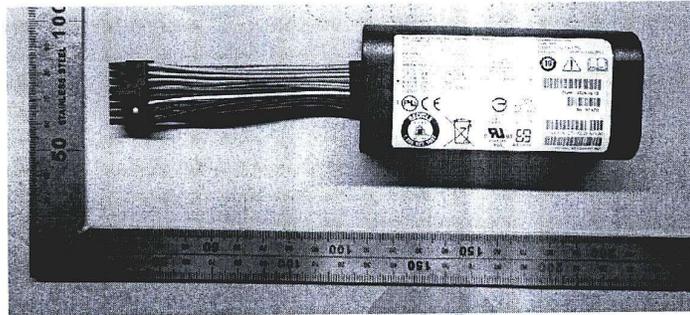
# UN38.3 试验概要

## UN38.3 Test Summary



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### 样品图片 Sample Picture



7Vdc 1.45Ah 10.15Wh Rechargeable Li-ion Battery  
 可充电锂离子蓄电池/锂离子电池组 型号/型号/Model: NTP2S1P-V  
 充电器充电限制电压: 12V 电池组充电限制电压: 8V  
 标称电压: 7V 额定容量: 1450mAh  
 WARNING: Fire, Explosion, and Other Hazards

<p>结论 Conclusion</p>	<p>测试样品符合联合国《试验和标准手册》ST/SG/AC.10/11/Rev.738.3 标准要求。The tested samples meet the requirements of test items of the UNITED NATIONS Manual of Tests and Criteria ST/SG/AC.10/11/Rev.7 38.3</p>	
<p>备注 Remark</p>	<p>/</p>	
<p>签名 Signature 职务 Title</p>	<p>王寅 王寅 副总工程师 Vice chief engineer</p>	<p>签发日期 Issued date 2024-11-20 上海化工院检测有限公司 检验检测专用章 (01)</p>

-验证码:882670-

\*\*\*报告结束\*\*\*