

Material Safety Data Sheet

Product: Rechargeable Lithium ion Battery

Model/type reference: DJY-02

Nominal Voltage: 25.2 V

Rated Capacity: 30.15Ah (759.78Wh)

Applicant: Shenzhen World New Power Co., Ltd.

Unit A, 3/F, Building 1, Xusheng Industrial Park, Liyuan Industrial

Address: Zone, Langxin Community Brickyard, Shiyan Street, Bao'an District,

518108 Shenzhen, Guangdong PEOPLE'S REPUBLIC OF CHINA

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Laboratory: Shenzhen NTEK New Energy Technology Co., Ltd.

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China.

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2.11 Ye

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Jesse Zhang



Section 1- Chemical Product and Company Identification

Product Identification: Lithium-ion Battery

Model No.: DJY-02

Manufacturer's / Supplier Name: Shenzhen World New Power Co., Ltd.

Address: Unit A, 3/F, Building 1, Xusheng Industrial Park, Liyuan Industrial Zone, Langxin Community Brickyard, Shiyan Street, Bao'an District, 518108 Shenzhen, Guangdong PEOPLE'S REPUBLIC OF CHINA

Telephone number of the supplier: +86-13714504869 Emergency Telephone No. (24h): +86-13714504869

Fax: None

E-mail address: kk-shi@wpbattery.com

Referenced documents: ISO 11014:2009 Safety data sheet for chemical products

Version number: V1.0

Section 2 - Hazards Identification

Preparation hazards and classification	Not dangerous with normal use. Do not dismantle, open or shred the Lithium-ion Battery ingredients contained within or their ingredients products could be harmful.	
Apperance, Color, and Odor	Solid object with no odor, no color.	
Primary Route(s)	These chemicals are contained in a sealed enclosure. Risk of exposure occurs only if	
of Exposure	the cell is mechanically, thermally or electrically abused to the point of compromising	
	the enclosure. If this occurs, exposure to the electrolyte solution contained within can	
	occur by Inhalation, Ingestion, Eye contact and Skin contact	
Potential Health	ACUTE (short term): see Section 8 for exposure controls In the event that this battery	
Effects:	has been ruptured, the electrolyte solution contained within the battery would be	
	corrosive and can cause burns.	
	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.	
	Ingestion: Swallowing of materials from a sealed battery is not an expected route of	
	exposure. Swallowing the contents of an open battery can cause serious chemical	
	burns of mouth, esophagus, and gastrointestinal tract.	
	Skin: Contact between the battery and skin will not cause any harm. Skin contact with	
	contents of an open battery can cause severe irritation or burns to the skin. Eye:	
	Contact between the battery and the eye will not cause any harm. Eye contact with	
	contents of an open battery can cause severe irritation or burns to the eye. CHRONIC	
	(long term): see Section 11 for additional toxicological data	
Medical Conditions	Not applicable	
Aggravated by		
Exposure		
Reported as	Not applicable	
carcinogen		



Section 3 – Composition/Information on Ingredients

Lithium-ion Battery is a mixture.

Hazardous Ingredients (Chemical Name)	Concentration or concentration ranges (%)	CAS Number
Nickel	41.5	182442-95-1
Silicon monoxide	1.6	10097-28-6
Graphite	18.9	7782-42-5
Aluminium	4.0	7429-90-5
Copper	7.6	7440-50-8
Iron	15.5	7439-89-6
Ethylene carbonate		96-49-1
Ethyl methyl carbonate	10.9	623-53-0
Dimethyl carbonate		616-38-6
Lithium hexafluorophosphate		21324-40-3

Labeling according to EC directives.

No symbol and risk phrase are required.

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not applicable.

Section 4 - First-aid Measures

Inhalation	If contents of an opened battery are inhaled, remove source of contamination or move	
	victim to fresh air. Obtain medical advice.	
Skin contact	If skin contact with contents of an open battery occurs, as quickly as possible remove	
	contaminated clothing, shoes and leather goods. Immediately flush with lukewarm, gently	
	flowing water for at least 30 minutes. If irritation or pain persists, seek medical attention.	
	Completely decontaminate clothing, shoes and leather goods before reuse or discard.	
Eye contact	If eye contact with contents of an open battery occurs, immediately flush the	
	contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes while	
	holding the eyelids open. Neutral saline solution may be used as soon as it is available. If	
	necessary, continue flushing during transport to emergency care facility. Take care not to	
	rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to	
	an emergency care facility.	
Ingestion	If ingestion of contents of an open battery occurs, never give anything by mouth if victim is	
	rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth	
	thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 mL (2-8	
	oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of	
	aspiration. Have victim rinse mouth with water again. Quickly transport victim to an	



emergency care facility.

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Section 5 – Fire-fighting Measures

Flammable	In the event that this battery has been ruptured, the electrolyte solution contain within the
Properties	battery would be flammable. Like any sealed container, battery cells may rupture when
	exposed to excessive heat; this could result in the release of flammable or corrosive
	materials.

Suitable		
extinguishing	Use extinguishing media suitable for the materials that are burning.	
Media		
Unsuitable		
extinguishing	Not available	
Media		
Explosion	Sensitivity to Mechanical Impact: This may result in rupture in extreme cases	
Data	Sensitivity to Static Discharge: Not Applicable	
Specific	Fires involving Lithium-ion Battery are controlled with water. When water is used,	
Hazards	however, hydrogen gas may evolve. In a confined space, hydrogen gas can form an	
arising from	explosive mixture. In this situation, smothering agents are recommended to extinguish	
the chemical	the fire	
Protective	As for any fire, evenuete the area and fight the fire from a cofe distance. Wear a	
Equipment	As for any fire, evacuate the area and fight the fire from a safe distance. Wear a	
and	pressure-demand, self-contained breathing apparatus and full protective gear. Fight fire	
precautions	from a protected location or a safe distance. Use NIOSH/MSHA approved full-face	
for firefighters	self-contained breathing apparatus (SCBA) with full protective gear.	
NFPA	Health: 0 Flammability: 0 Instability: 0	

Section 6 - Accidental Release Measures

Personal Precautions, protective equipment, and	Restrict access to area until completion of clean-up.
emergency procedures	Do not touch the spilled material. Wear adequate
	personal protective equipment as indicated in Section
	8.
Environmental Precautions	Prevent material from contaminating soil and from
	entering sewers or waterways.
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled liquid
	with dry sand or earth. Clean up spills immediately.
Methods and materials for cleaning up	Absorb spilled material with an inert absorbent (dry
	sand or earth). Scoop contaminated absorbent into an
	acceptable waste container. Collect all contaminated
	absorbent and dispose of according to directions in
	Section 13. Scrub the area with detergent and water;

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collect all contaminated wash water for proper
disposal.

Section 7 – Handling and Storage

Handling	Don't handle Lithium-ion Battery with metalwork. Do not open, dissemble, crush or burn battery. Ensure good ventilation/ exhaustion at the workplace. Prevent formation of dust. Information about protection against explosions and
	fires: Keep ignition sources away- Do not smoke.
Storage	If the Lithium-ion Battery is subject to storage for such a long term as more than 3 months, it is recommended to recharge the Lithium-ion Battery periodically.
	3 months: -10°C~+40°C, 45 to 85%RH
	And recommended at 0°C~+35°C for long period storage.
	The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is assumed to be 80% or more.
	Do not store Lithium-ion Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
	Keep out of reach of children.
	Do not expose Lithium-ion Battery to heat or fire. Avoid storage in direct sunlight.
	Do not store together with oxidizing and acidic materials.

Section 8 – Exposure Controls and Personal Protection

Engineering Controls	Use local exhaust ventilation or other engineering
	controls to control sources of dust, mist, fumes and
	vapor.
	Keep away from heat and open flame. Store in a cool,
	dry place.
Personal Protective Equipment	Respiratory Protection: Not necessary under normal
	conditions.
	Skin and body Protection: Not necessary under
	normal conditions, Wear neoprene or nitrile rubber
	gloves if handling an open or leaking battery.
	Hand protection: Wear neoprene or natural rubber
	material gloves if handling an open or leaking battery.
	Eye Protection: Not necessary under normal
	conditions, Wear safety glasses if handling an open or
	leaking battery.

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Other Protective Equipment	Have a safety shower and eye wash fountain readily available in the immediate work area.
Hygiene Measures	Do not eat, drink, or smoke in work area. Maintain good housekeeping.

Section 9 - Physical and Chemical Properties

Physical State	Form: Solid	
	Color: Black	
	Odor: Odorless	
Change in o	condition:	
pH, with ind	lication of the concentration	Not applicable
Melting poir	nt/freezing point	Not available.
Boiling Point, initial boiling point and Boiling range:		Not available.
Flash Point		Not available.
Upper/lowe	r flammability or explosive limits	Not available.
Vapor Pressure:		Not applicable
Vapor Density: (Air = 1)		Not applicable
Density/relative density		Not available.
Solubility in Water:		Insoluble
n-octanol/water partition coefficient		Not available.
Auto-ignition temperature		130°C
Decomposition temperature		Not available.
Odout threshold		Not available.
Evaporation rate		Not available.
Flammability (soil, gas)		Not available.
Viscosity		Not applicable

Section 10 - Stability and Reactivity

Stability	The product is stable under normal conditions.
Conditions to Avoid (e.g. static discharge, shock or vibration)	Do not subject Lithium-ion Battery to mechanical shock. Vibration encountered during transportation does not cause leakage, fire or explosion. Do not disassemble, crush, short or install with incorrect polarity. Avoid mechanical or electrical abuse.



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Incompatible Materials	Not Available
Hazardous Decomposition Products	This material may release toxic fumes if burned or exposed to fire
Possibility of Hazardous Reaction	Not Available

Section 11 - Toxicological Information

Irritation	Risk of irritation occurs only if the cell is mechanically,	
	thermally or electrically abused to the point of	
	compromising the enclosure. If this occurs, irritation to	
	the skin, eyes and respiratory tract may occur.	
Sensitization	Not Available	
Neurological Effects	Not Available	
Teratogenicity	Not Available	
Reproductive Toxicity	Not Available	
Mutagenicity (Genetic Effects)	Not Available	
Toxicologically Synergistic Materials	Not Available	

Section 12 - Ecological Information

Water hazard class 1(Self-assessment): slightly	
hazardous for water.	
Do not allow undiluted product or large quantities of it	
to reach ground water, water course or sewage	
system.	
Not Available	
Not Available	

Persistence and Degradability	Not Available
Bioaccumulation potential	Not Available
Other Adverse Effects	Not Available

Section 13 – Disposal Considerations

Product disposal recommendation: Observe local, state and federal laws and regulations.

Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassembly the battery. Completely discharge containers (no tear drops, no powder



rest, scraped carefully). Containers may be recycled or re-used. Observe local, state and federal laws and regulations.

Section 14 – Transport Information

With regard to transport, the following regulations are cited and considered:

- The International Civil Aviation Organization (ICAO) Technical Instructions, Packing instruction 965, section I A (2021-2022 Edition).
- The International Air transport Association (IATA) Dangerous Goods Regulations, Packing instruction 965, section I A (63rd Edition, 2022).
- The International Maritime Dangerous Goods (IMDG) Code (Amendment 40-20 Edition).
- The US Hazardous Materials Regulation 49CRF (Code of Federal Regulations).
- The UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria 38.3 Lithium batteries.
- -Proper shipping name and UN ID number: LITHIUM ION BATTERIES, UN No.: UN3480.

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, and should be transported as Class 9 hazardous material. 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.

Test results of the UN Recommendation on the Transport of Dangerous Goods

Manual of Test	and Criteria (38.3 Lithium battery)		
No.	Test items	Test results	Remark
T1	Altitude simulation	Pass	-
T2	Thermal test	Pass	-
T3	Vibration	Pass	-
T4	Shock	Pass	-
T5	External short circuit	Pass	-
T6	Impact	Pass	-
T7	Overcharge	Pass	-
T8	Forced discharge	Pass	-

The following information is provided for domestic and international transportation:

DOT regulations:		
UN Classification (Transport Hazard class):	9	
UN number:	3480	
Packing group:	II	
UN Proper shipping name(technical name):	LITHIUM ION BATTERIES	
Marine pollutant(Y/N)	N	9
Label:	Class 9 (Lithium batteries)	
Land transportation ADR/RID (cross-broder):		

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ADR/RID class:	9 Miscellaneous dangerous		
	substances and articles		
Danger code(Kemler):	9		
UN-Number:	3480		
Packaging group:	II		
Marine pollutant(Y/N):	N		
Label:	Class 9 (Lithium batteries)		
Description of goods:	LITHIUM ION BATTERIES		
Sea transport IMDG:	<u>.</u>		
Class or division:	Class 9		
UN Number:	3480	•	
Label:	Class 9 (Lithium batteries)		
Packaging group:	II		
EMS Number:	F-A, S-I		
Marine pollutant(Y/N):	N	×	
Propper shipping name:	LITHIUM ION BATTERIES		
Air transport ICAO-TI and IATA-D	GR:		
Class or division:	Class 9		
UN Number:	3480		
Label:	Class 9 (Lithium batteries)	AIIN	
Packaging group:	II		
Marine pollutant(Y/N):	N		
Propper shipping name:	LITHIUM ION BATTERIES		

Section 15 - Regulatory Information

OSHA hazard communication standard (29 C	FR 1910.1200)
Hazardous	V	Non-hazardous



Section 16 - Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, NTEK makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

******	End of MSDS	******