NEOVOLTA

Li-Ion Battery

NV14 & NV24



Material Safety Data Sheet

For support scan here

800.364.5464

NEOVOLTA.COM

V1.05132026

TEST REPORT

1. Identification of the Product and Supplier	
Name of goods	Li-ion Battery
Type/Model	SSIF2P15S48100C / NV14&NV24
Rating	48V 100Ah 4800Wh
Commissioned by	Shandong Sacred Sun Power Sources Co., Ltd.
Commissioner address	NO.1, Shengyang Road, Qufu City
Factory's name	Shandong Sacred Sun Power Sources Co., Ltd.
Factory address	NO.1, Shengyang Road, Qufu City
Inspection according to	UN "Recommendations on the TRANSPORT OF DANGEROUS GOODS"
Emergency telephone	+86-537-4438666
Issued date:2025-12-24	Effective date:2026-01-01

TEST REPORT

2. Composition Information

Chemical Composition	Chemical Formula	Weight(%)	CAS Number
Lithium Iron Phosphate	$LiFePO_4$	25-30	153 65-14 -7
Graphite	$C_{24}X_{12}$	8-12	778 2-42-5
Lithium Hexafluorophosphate	$LiPF_6$	15-22	213 24-40 -3
Aluminium	Al	5-8	742 9-90-5
Iron	Fe	22-30	743 9-89-6
Copper	Cu	10-15	744 0-50-8
Nickel	Ni	0.5-1	744 0-02-0

3. Hazards Identification

Explosive risk	This article does not belong to the explosion dangerous goo
Flammable risk	This article does not belong to the flammable material
Oxidation risk	This article does not belong to the oxidation of dangerous goods
Toxic risk	This article does not belong to the toxic dangerous goods
Radioactive risk	This article does not belong to the radiation of dangerous goods
Mordant risk	This article does not belong to the corrosion of dangerous goods
other risk	Watt hour rate 4800Wh. Which belong to the Class 9 of dangerous goods.

TEST REPORT

4. First aid measures

Eye
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin
Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

Inhalation
Remove from exposure and move to fresh air immediately. Use oxygen if available.

Ingestion
Give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.
.

5. Fire-fighting measures

FlashPoint: N/A.

Auto-IgnitionTemperature: N/A.

ExtinguishingMedia: Water, CO2.

Special Fire-Fighting Procedures: Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards:
Cell may vent when subjected to excessive heat-exposing battery contents.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

TEST REPORT

6. Accidental release measures

Steps to be Taken in case Material is Released or Spilled
If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. Wipe it up with a cloth, and dispose of it in a plastic bag and put into a steel can. The preferred response is to leave the area and allow the battery to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate.

Waste Disposal Method
It is recommended to discharge the battery to the end, handing in the abandoned batteries to related department unified, dispose of the batteries in accordance with approved local, state, and federal requirements. Consult state environmental protection agency and/or federal EPA.

7. Handling and storage

The battery should not be opened, destroyed or incinerated, since they may leak or rupture and release to the environment the ingredients that they contained in the hermetically sealed container.

Do not short circuit terminals, or over charge the battery, forced over-discharge, throw to fire.
Do not crush or puncture the battery, or immerse in liquids.

Precautions to be taken in handling and storing
Avoid mechanical or electrical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

Other Precautions
The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

TEST REPORT

8. Exposure controls/personal protection

Respiratory Protection
In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting cell cores. Respiratory Protection is not necessary under conditions of normal use.

Ventilation
Not necessary under conditions of normal use.

Protective Gloves
Not necessary under conditions of normal use.

Other Protective Clothing or Equipment
Not necessary under conditions of normal use.

Personal Protection is recommended for venting battery
Respiratory Protection, Protective Gloves, Protective Clothing and safety glass with side shields.

TEST REPORT

9. Physical and chemical properties

Appearance: Approximate Cuboid

Odour: If leaking, smells of medical ether.

Odor Threshold: Not applicable.

pH: Not applicable.

Melting Point/freezing point: Not applicable.

Initial boiling point and Boiling range: Not applicable.

Flash Point: Not applicable.

Evaporation rate: Not applicable.

Flammability (solid, gas): Not applicable.

Upper/lower flammability or explosive limits: Not applicable.

Vapor Pressure: Not applicable.

Vapor Density: Not applicable.

Relative density: Not applicable.

Solubility (water): Not applicable.

Solubility (other): Not applicable.

n-octanol/water partition coefficient: Not applicable.

Auto-ignition temperature: Not applicable.

Decomposition temperature: Not applicable.

TEST REPORT

10. Stability and reactivity

Stability: Product is stable under conditions described in Section 7.

Conditions to avoid: Heat above 70°C or incinerate. Deform. Mutilate. Crush. Disassemble. Overcharge. Short circuit. Expose over a long period to humid conditions.

Materials to avoid: Oxidising agents, alkalis, water.

Hazardous Decomposition Products: Toxic Fumes, and may form peroxides.

Hazardous Polymerization: N/A.
If leaked, forbidden to contact with strong oxidizers, mineral acids, strong alkalies, halogenated hydrocarbons.

11. Toxicological information

Signs & symptoms: None, unless battery ruptures.

In the event of exposure to internal contents, vapour fumes may be very irritating to the eyes and skin.

Inhalation: Lung irritant.

Skin contact: Skin irritant

Eye contact: Eye irritant

Ingestion: Poisoning if swallowed

Medical conditions generally aggravated by exposure: In the event of exposure to internal contents, moderate to server irritation, burning and dryness of the skin may occur, Target organs nerves, liver and kidneys.

TEST REPORT

12. Ecological information

Mammalian effects: None known at present.

Eco-toxicity: None known at present.

Bioaccumulation potential: Slowly Bio-degradable.

Environmental fate: None known environmental hazards at present.

13. Disposal consideration

Do not incinerate, or subject cells to temperature in excess of 70°C, Such abuse can result in loss of seal leakage, and/or cell explosion. Dispose of in accordance with appropriate local regulations.

14. Transport information

Label for conveyance: the Class 9—Lithium-ion Power Battery hazard label, the Cargo aircraft Only Label

UN Number: UN3480 or UN3481 or UN3556

Packing Group: Group II (Not apply to PI952 and PI967 Section I)

EmS No: F-A, S-I

Marine pollutant: No

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises: No further information.

UN Proper Shipping name: 1) Lithium ion batteries; 2) Lithium ion batteries packed with equipment; 3) Lithium ion batteries contained in equipment. (including Lithium ion polymer) ; 4) Vehicle, lithium ion battery powered

Transport hazard class(es): The goods shall be complied with the requirements of Section IA of Packing Instructions 965 or Section I of Packing Instructions 966~967 of 67th DGR Manual of IATA (2026 Edition) and IMDG CODE (Amdt. 42-24) 2024 Edition and ADR 2025 and RID 2025, including the passing of the UN38.3 test.

TEST REPORT

15. Regulation information

Law information

Dangerous Goods Regulations
Recommendations on the Transport of Dangerous Goods Model Regulations
International Maritime Dangerous Goods
Technical Instructions for the Safe Transport of Dangerous Goods
Classification and code of dangerous goods
Occupational Safety and Health Act (OSHA)
ToxicSubstanceControlAct (TSCA)
ConsumerProductSafetyAct (CPSA)
Federal Environmental Pollution Control Act (FEPCA)
The Oil Pollution Act (OPA)
Superfund Amendments and Reauthorization Act TitleIII (302/311/312/313)(SARA)
Resource Conservation and Recovery Act (RCRA)
Safety Drinking Water Act (CWA)
California Proposition 65
Code of Federal Regulations (CFR)
In accordance with all Federal, State and local laws.

16. Other information

This file is only effective to the batteries (SSIF2P15S48100C) provided by Shandong Sacred Sun Power Sources Co., Ltd. which manufactured by Shandong Sacred Sun Power Sources Co., Ltd. The commissioner provides the composition information of batteries, and promises its integrity and accuracy. Users should read this file carefully, and use the batteries in correct method. GDUTL STANDARD CO., LTD. (GDUTL) doesn't assume responsibility for any damage or loss because of misuse of batteries.

TEST REPORT

Important

1. Nobody is allowed to photocopy or partly photocopy this test report without written permission of GDUTL.

2.The test report is invalid without the signatures of Approver, Reviewer and Tester.

3. The test report is invalid if altered.

4. Objections to the test report must be submitted to GDUTL within 15 days.

5. Throughout this report a point is used as the decimal separator.

6. This report is valid for the tested samples only.

7. The test report does not grant applicant the use of GDUTL name, trademark or label.

8. GDUTL's liability under no circumstances will exceed the testing fee received from applicant for test conducted hereof this testing report.

9. The test data and results do not have social proof function.

End of Test Report