

Certificado de batería

Datos de seguridad y transporte de la batería de su producto.



PARA EL PRODUCTO

**Andafacil® EasyRide –
Scooter Eléctrico**

SKU: AFSE-2023-LA



Datos de la batería

288 Wh

Energía

24 V

Voltaje

12 Ah

Capacidad

**Plomo
(AGM)**

Química

Sí

Batería removible

**No
derramable**

Tipo

**USO Y TRANSPORTE • No restringida – batería no derramable
(disposición especial A67)**



Este producto no está pensado para viajar en avión. Este documento identifica su batería para envíos por tierra, almacenaje y servicio técnico.

¿Dudas sobre la batería? Escriba a Marla por WhatsApp



Le ayudamos con la carga, el cuidado y el servicio de su producto. Escanee el código o escriba al:

WhatsApp 55 9990 2396

s.andafacil.com/wabateriaafse2023la



Cuidado y transporte de la batería

1. Cárguela con el cargador original, en un lugar ventilado y lejos de fuentes de calor.
2. Si no la usa por varias semanas, cárguela al menos una vez al mes.
3. Para moverla en auto o enviarla, apague el producto, desconecte la batería y protéjala de golpes y del agua.
4. Si se hincha, huele raro o se calienta de más, deje de usarla y escríbanos.



Consejo de Don Andy: guarde este certificado junto con su factura; se lo pueden pedir en envíos o en el servicio técnico.

Evidencia del fabricante

Documento	Detalle
Nombre de la mercancía (como aparece en el certificado)	Sealed Lead Acid Battery, Valve Regulated Lead Acid Battery, GEL Battery, BATTERIES, WET, NON-SPILLABLE, electric storage (TN/TNE/DZF/EVF/AGM series)
Modelo de batería	Tianneng VRLA — 6-DZF series (2 × 12 V, e.g. 6-DZF-12)
Fabricante	Tianneng Battery Group Co., Ltd.
Hoja de datos de seguridad (MSDS)	Series No. 9990920250101-001 · Tianneng Battery Group Co., Ltd · ISO 11014-2009 format, Version 1.0 · period of validity 2026-01-01 – 2026-12-31 · lists 6-DZF-12 / 6-DZF-20 · non-spillable, IATA DGR SP A67 / IMDG SP 238
Hoja de datos de seguridad (MSDS)	Series No. 9990920250101-002 · Tianneng Battery Group Co., Ltd · ISO 11014-2009 format, Version 1.0 · period of validity 2025-07-01 – 2025-12-31 · non-spillable, IATA DGR SP A67 / IMDG SP 238 / DOT 49 CFR 173.159(d)

Originales del fabricante (páginas siguientes): **2**

ANDAFACIL identifica el producto; los datos técnicos provienen de los certificados originales que se adjuntan.

Battery certificate

Safety and transport data for your product's battery.



FOR THE PRODUCT

**Andafacil® | EasyRide
– Electric Scooter**

SKU: AFSE-2023-LA



Battery data

288 Wh
Energy

24 V
Voltage

12 Ah
Capacity

**Lead-acid
(AGM)**
Chemistry

Yes
Removable
battery

**Non-
spillable**
Type



USE AND TRANSPORT • Not restricted — non-spillable battery (A67)

This product is not meant for air travel. This document identifies its battery for ground shipping, storage and service.

Battery questions? Message Marla on WhatsApp



We help with charging, care and service (Spanish and English). Scan the code or write to:

WhatsApp 55 9990 2396

s.andafacil.com/wabateriaafse2023la



Battery care and transport

1. Charge it with the original charger, in a ventilated place away from heat.
2. If you do not use it for several weeks, charge it at least once a month.
3. To move it by car or ship it, switch the product off, disconnect the battery and protect it from impacts and water.
4. If it swells, smells odd or gets too hot, stop using it and contact us.



Don Andy's tip: keep this certificate with your invoice; it may be requested for shipping or service.

Manufacturer evidence

Document	Detail
Goods name (as printed on the certificate)	Sealed Lead Acid Battery, Valve Regulated Lead Acid Battery, GEL Battery, BATTERIES, WET, NON-SPILLABLE, electric storage (TN/TNE/DZF/EVF/AGM series)
Battery model	Tianneng VRLA — 6-DZF series (2 × 12 V, e.g. 6-DZF-12)
Manufacturer	Tianneng Battery Group Co., Ltd.
MSDS	Series No. 9990920250101-001 · Tianneng Battery Group Co., Ltd · ISO 11014-2009 format, Version 1.0 · period of validity 2026-01-01 – 2026-12-31 · lists 6-DZF-12 / 6-DZF-20 · non-spillable, IATA DGR SP A67 / IMDG SP 238
MSDS	Series No. 9990920250101-002 · Tianneng Battery Group Co., Ltd · ISO 11014-2009 format, Version 1.0 · period of validity 2025-07-01 – 2025-12-31 · non-spillable, IATA DGR SP A67 / IMDG SP 238 / DOT 49 CFR 173.159(d)

Manufacturer originals (following pages): **2**

ANDAFACIL identifies the product; the technical data comes from the original certificates attached.

MATERIAL SAFETY DATA SHEET



VALVE-REGULATED LEAD ACID BATTERIES MAINTENANCE-FREE NON-SPILLABLE

Series No: 9990920250101-001

ACCORDING TO ISO 11014-2009 FORMAT

Version: 1.0

Period of validity: Jan 1, 2026 ~ December 31, 2026

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sealed Lead Acid Battery, Valve Regulated Lead Acid Battery GEL Battery ,
BATTERIES, WET, NONSPILLABLE,electric storage, TN, TNL, TNF, TNS, TNX, TNG, TNFG, TNC, TNFC, TNE, OPZV, TNEH, TNEP, DZM, DZF, EVF, DF, AGM, TAA, CPX Series

Product Model:

TNE12-7.0, TNE12-9.0, TNE12-12, TNE12-14, TNE12-15, TNE12-20, TNE12-23, TNE12-25, TNE12-35B, TNE12-38, TNE12-40, TNE12-45, TNE12-45L, TNE12-52, TNE12-58, TNE12-65, TNE12-66, TNE12-75, TNE12-90, TNE12-100, TNE12-125, TNE12-150, TNE12-170, TNE12-175, TNE12-190, TNE12-200, TNE12-230, TNE6-245, TNE6-250, TNE6-270, TNE8-180, TNE8-190, TNEH12-15, TNEH12-27, TNEH12-28, TNEH12-30, TNEH12-40, TNEP12-16, TNEP12-28, TNEP12-41, TNEP12-42, TNEP12-48, TNEP12-50, TNEP12-60, TNEP12-130, TNEP6-240, TNEP6-290, TNEP6-310, TNEP6-400, TNEM12-28, 6-DZF-12, 6-DZF-12.3, 6-DZF-12.6, 6-DZF-15, 6-DZF-20, 6-DZF-20.3, 6-DZF-21.6, 6-EVF-32, 6-EVF-32.3, 6-EVF-33, 6-EVF-38, 6-EVF-38.3, 6-DZF-40.6, 6-EVF-45, 6-EVF-45.3, 6-EVF-46.6, 6-EVF-50, 6-EVF-52, 6-EVF-52.3, 6-EVF-52.6, 6-EVF-58, 6-EVF-58.3, 6-EVF-61A, 6-EVF-62, 6-EVF-71, 6-EVF-73H, 6-EVF-80, 6-EVF-83H, 6-EVF-100, 6-EVF-103H, 6-EVF-120H, 6-EVF-135, 6-EVF-150, 6-EVF-160B, 6-EVF-180, 3-EVF-150, 3-EVF-200, 3-EVF-203, 3-EVF-200T, 3-EVF-220, 4-EVF-150, 4-EVF-150T, 4-EVF-155, 4-EVF-180, 6-DZF-13, 6-DZF-13.2, 6-DZF-22.3, 6-EVF-35, 6-EVF-35.5, 6-DZF-14L, 6-DZF-23L, 6-EVF-36L, 6-DF-120, 3-DF-200, 3-DF-240, 3-DF-320, AGM12-15, AGM12-25, AGM12-38, AGM12-60, AGM12-100, AGM12-125, AGM12-170, AGM12-230, AGM12-265, LEAD CARBON 12-106, LEAD CARBON 12-160, TAA60660, TAA70760, TAA105950, CPX45-12, CPX58-12, CPXC70-12, CPX75-12, CPX 125-12, TN6-4.0, TN6-4.5, TN6-7.0, TN12-1.3, TN12-4.5, TN12-5.0, TN12-5.4, TN12-5.5, TN12-6.0, TN12-6.5, TN12-7.0, TN12-7.0E, TN12-7.2, TN12-7.5, TN12-8.0, TN12-8.5, TN12-9.0, TN12-12, TN12-14, TN12-15, TN12-17, TN12-18, TN12-20, TN12-24, TN12-24H, TN12-26, TN12-28, TN12-28H, TN12-33, TN12-33E, TN12-35, TN12-38, TN12-38E, TN12-40, TN12-45, TN12-50, TN12-50E, TN12-55, TN12-65, TN12-65E, TN12-70, TN12-75, TN12-80, TN12-80E, TN12-90, TN12-100, TN12-100E, TNL12-100, TN12-110, TN12-120, TN12-120E, TNL12-120, TN12-140, TN12-150, TN12-150E, TNL12-150, TN12-150, TN12-180, TN12-190, TN12-200, TN12-200E, TNL12-200, TN12-220, TN12-250, TN12-250E, TNL12-250, TN2-100, TN2-200, TN2-300, TN2-400, TN2-500, TN2-600, TN2-700, TN2-800, TN2-1000, TN2-1200, TN2-1500, TN2-1800, TN2-2000, TN2-2500, TN2-3000, TNG12-20, TNG12-38, TNG12-65, TNG12-75, TNG12-80, TNG12-90, TNG12-100, TNG12-150, TNG12-200, TNG12-250B, TNG2-100, TNG2-200, TNG2-300, TNG2-400, TNG2-500, TNG2-600, TNG2-800, TNG2-1000, TNG2-1200, TNG2-1500, TNG2-2000, TNG2-3000, TN12-21W, TN12-28W, TN12-34W, TN12-36W, TN12-90W, TN12-154W, TN12-240W, TN12-342W, TN12-390W, TN12-450W, TN12-510W, TN12-550W, TN12-605W, TN12-630W, TN12-650W, TN12-690W, TN12-700W, TN12-765W, TN12-820W, TN12-850W, TN12-910W, TN12-1000W, TN2-500W, TN2-550W, TN2-600W, TN2-750W, TN2-1000W, TN2-1200W, TN2-1520W, TN2-2000W, TN2-2400W, TN2-2450W, TN2-2850W, TNX12-21W, TNX12-28W, TNX12-34W, TNX12-36W, TNX12-90W, TNX12-154W, TNX12-240W, TNX12-342W, TNX12-390W, TNX12-450W, TNX12-510W, TNX12-550W, TNX12-605W, TNX12-630W, TNX12-690W, TNX12-700W, TNX12-765W, TNX12-800W, TNX12-820W, TNX12-850W, TNX12-910W, TNX12-1000W, TNX2-500W, TNX2-550W, TNX2-600W, TNX12-650W, TNX2-750W, TNX2-1000W, TNX2-1200W, TNX2-1520W, TNX2-2000W, TNX2-2400W, TNX2-2450W, TNX2-2850W, TNF12-55, TNF12-100, TNF12-150, TNF12-190, TNF12-200, TNC12-65, TNC12-80P, TNC12-100, TNC12-150, TNC12-170, TNC12-200, TNC2-500, TNC2-1000, TNC2-1200, TNC2-1500, TNC2-2000, H4(LN1) TAA, H5(LN2) TAA, H6(LN3) TAA, H7(LN4) TAA, H8(LN5) TAA, H9(LN6) TAA, 12V28Ah (23.2Ah/2HR), 6-EVF-24(12V24Ah), TD12-33Ah(12V33Ah), 6-DZM-15, 6-DZM-22, TNE12-54, 12V54Ah, TNE12-55, 12V55Ah, TNE12-56, 12V56Ah, TNE12-85, 12V85Ah, TNE12-68, 12V68Ah, TNE12-65L, 12V65Ah, CPX 100-12, CPX 125-12, CPX 15-12, CPX 190-12, CPX 45-12, CPX 58-12, CPX 75-12, CPXC 170-12, CPXC 70-12, CPXC 80-12, CPXC 80-12J, XPM12V/15AH, XPM12V/25AH, XPM12V/45AH, XPM12V/60AH, XPM12V/125AH, XPM12V/50AH, XPM12V/80AH, XPM12V/100AH, XPM12V/130AH, 6-DZM-15-VT, 6-DZM-16-VT, 6-DZM-20-VT, 6-DZM-25-VT, 6-EVF-38-VT, 6-EVF-45L-VT, 6-EVF-58-VT, 6-EVF-65-VT, 6-EVF-75-VT, 6-EVF-100-VT, 6-EVF-125-VT, 6-EVF-150-VT, 6-EVF-175-VT, 6-EVF-230-VT, 6-DZM-42-VT, 6-DZM-50-VT, 6-EVF-240-VT, ADC6-250EV, ADC8-185EV, ADC12-15EV,

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VALVE-REGULATED LEAD ACID BATTERIES MAINTENANCE-FREE NON-SPILLABLE

ADC12-25EV, ADC12-42EV, ADC12-50EV, ADC12-90EV, ADC12-125EV, ADC12-175EV, ADC12-230EV

Name of Company:

Tianneng Battery Group Co.,Ltd

Address:Industrial park,Meishan,Changxing County,Huzhou,Zhejiang,China

Tel: +86-572-6058015

Fax: +86-572-6058015

E-mail: export@tiannenggroup.com

SECTION 2- HAZARDS IDENTIFICATION

Hazards identification :

The battery has passed the vibration test, pressure differential test and leakage test at 55 °C according to Recommendations on the TRANSPORT OF DANGEROUS GOODS Model SPECIAL PROVISION 238. It is not restricted to IATA DGR 66th Edition according to special provision A67 and is not restricted to IMDG CODE according to special provision 238.

Lead/Lead oxides: Under normal conditions of use, lead dust, vapors, and fumes are not generated.

Hazardous exposure may occur when product is overheated, oxidized or otherwise processed or damaged to create dust, vapor or fumes.

Inhalation: Lead dust or fumes may cause irritation of upper respiratory tract or lungs.

Skin Contact: Lead Compounds are not readily absorbed through the skin.

Eye Contact: Lead Compounds may cause eye irritation

Sulfuric acid: Under normal conditions of use, it will not be affected. When the battery is opened and leaks, dangerous contact may occur.

Inhalation: Acid mist may irritate the upper respiratory tract or lungs.

Skin contact: Sulfuric acid can corrode the skin.

Eye contact: Sulfuric acid can cause eye irritation.

SECTION 3- COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture	Percent	CAS No.
Lead/Lead oxides	68%	7439-92-1
Sulfuric Acid	25%	7664-93-9
Separator	2%	65997-17-3
ABS Container	5%	9003-56-9

SECTION 4 - FIRST AID MEASURES

Inhalation

Sulfuric Acid: Remove to fresh air immediately. Give oxygen or artificial respiration if needed. Get immediate medical attention.

Lead/Lead oxides: Remove from exposure, gargle, wash nose and lips, consult physician

Eyes contact

Sulfuric Acid: Flush with plenty of water for at least 15 minutes, hold eyelids open. Get immediate medical attention..

Lead/Lead oxides: Flush immediately with water for 15 minutes, consult a physician

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VALVE-REGULATED LEAD ACID BATTERIES MAINTENANCE-FREE NON-SPILLABLE

Skin contact

Sulfuric Acid: Flush with large amounts of water for at least 15 minutes, remove any contaminated clothing. If irritation develops seek medical attention.

Lead/Lead oxides: Wash with soap and water.

Ingestion

Sulfuric Acid: Ingestion: Do not induce vomiting. Dilute by giving large quantities of water. If available give several glasses of milk. Do not give anything by mouth to an unconscious person. Give CPR if breathing has stopped. Get immediate medical attention.

Lead/Lead oxides: Consult a physician immediately

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not Applicable

Extinguishing Media:

Use water, foam or dry powder, as appropriate to extinguish fire.

Fire Fighting Procedures:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Fight fire from the maximum distance. Evacuate area.

Specific Hazards:

When involved in a fire, the battery may decompose and produce irritating fumes containing metal oxides. And plastic may create toxic vapors, gases or fumes under fire conditions.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear appropriate personal protective equipment as specified in Section 8.

Environmental Precautions:

This material may be non-hazardous in ordinary use and may be discarded in accordance with applicable governmental regulations and take order with the demands of the environmental protection section.

Methods of Clean up:

Spill and leaks are unlikely because cells are contained in a sealed case. In the event of a battery rupture, prevent skin contact and collect all released material in a plastic lined metal container to prevent spill from entering drinking water supplies or streams. Any product recovery or disposal must comply with local, state, federal, international or country Specific regulations.

SECTION 7 - HANDLING AND STORAGE

Handling: It can be used normally under the temperature of -20~40°C. All connections should be connected accurately to avoid the possibility of a short circuit. Do not let oil and water or other contamination drop on the top of battery while working. Use only in the well-ventilated areas. Keep away from heat, sparks and open flames. Make available in the work area emergency shower and eyes wash. Avoid contact with skin and eyes. Use of full-length sleeves and pants; boots or work shoes are recommended for manufacturing operations.

Storage: Store in cool, dry, well-ventilated area and away from combustible materials, sources of ignition,

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VALVE-REGULATED LEAD ACID BATTERIES MAINTENANCE-FREE NON-SPILLABLE

excessive heat and direct sunlight. Do not store in sealed areas.

Warning: Not for use on children under 5 years old.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering control: use ventilation equipment, safety showers and eye baths

Personal protective equipment:

Respiratory: Wear government approved air purifying respirator if necessary.

Eyes: Chemical safety glasses.

Clothing: Wear appropriate protective clothing.

Hands: Wear acid-proof gloves.

Other protective measures: smoking, drinking and eating are strictly prohibited in the workplace.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General Physical Form: The battery is solid.

Odor: The battery is odorless.

Solubility in Water: Lead, lead oxide and lead sulfate are insoluble in water.

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Direct sunlight, overheat, sparks and other sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, potassium, sodium.

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Lead/Lead Oxides: Toxic by ingestion or inhalation. Chronic poison.

Sulfuric Acid: Contact may cause severe irritation to eyes and skin, causes burns.

Potential Chronic Health Effects:

Be slightly hazardous in case of skin contact (permeate).

Carcinogenic effects: Lead/Lead Oxides: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC. Sulfuric Acid: G1 by IARC. Mutagenic effects: Not available.

Teratogenic effects: Not available. Developmental toxicity: Not available.

Lead may be toxic to blood, kidneys, central nervous system (CNS).

Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 12 - ECOLOGICAL INFORMATION

Lead/Lead Oxides:

Eco-toxicity: Not available. BOD5 and COD: No available.

Products of Biodegradation: Possibly hazardous short-term degradation products are not likely. However, long-

term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Sulfuric Acid:

Harmful to the environment, can cause pollution to water bodies and soil. Biodegradability and Non-

MATERIAL SAFETY DATA SHEET



VALVE-REGULATED LEAD ACID BATTERIES MAINTENANCE-FREE NON-SPILLABLE

biodegradability : No available.

SECTION13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Spent batteries must be treated as hazardous waste and disposed of according to local state, and federal regulations. A copy of this material safety data must be supplied to any scrap dealer or secondary smelter with battery. Put into dustbin, otherwise incineration, otherwise licensed landfill, or safe disposal as required by local, state, federal, international or country specific regulations.

Empty Container Warnings:

Empty containers may contain product residue, follow MSDS and label warnings even after they have been emptied.

SECTION 14 - TRANSPORT INFORMATION

GROUND-US DOT:

Our non-spillable lead acid batteries meet all of the following requirements found at DOT 49 CFR 173.159(d)

- When offered for transport, the batteries are protected against short circuits and securely packaged as required by DOT 49 CFR 173.159(d) (1);
- The batteries and outer packaging are marked with the words "NONSPILLABLE" or "NONSPILLABLE BATTERY" as required by DOT 49 CFR 173.159(d) (2);
- The batteries comply with the vibration and pressure differential tests found in DOT 49 CFR 173.159(d) (3).

AIRCRAFT-ICAO-IATA:

Our non-spillable lead acid batteries also are excepted from the international hazardous materials (also known as dangerous goods) regulations since they comply with the following requirements:

- According to the requirements of Packing Instruction 806 in IATA (International Air Transport Association) DGR 66th Edition and ICAO (International Civil Aviation Organization), there should not be any electrolyte leakage after the vibration and pressure differential tests.
- And, Special Provision A67 states Non-spillable batteries are not subject to these Instructions (Packing Instruction 806) if at the temperature of 55°C (131°F), the electrolyte will not flow from a ruptured or cracked case and there is no free liquid flow and if, when packaged for transport the batteries are protected from short circuit and unintentional activation.

VESSEL IMO-IMDG:

IMDG NOT REGULATED: Our non-spillable batteries are excepted from the international hazardous materials (also known as dangerous goods) regulations since they conform to the requirements of IMDG Code Special Provision 238, that is the batteries have passed the vibration and pressure differential performance tests, and at a temperature of 55°C, the electrolyte will not flow from a ruptured or cracked case and there is no free liquid flow and if, when package for transport, the terminal are protected from short circuit.

SECTION 15 - REGULATORY INFORMATION

EU regulation: According to regulation (EU)2023/1542, VRLA batteries should carry a crossed wheeled bin

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VALVE-REGULATED LEAD ACID BATTERIES MAINTENANCE-FREE NON-SPILLABLE

symbol with an ISO recycling symbol.



SECTION 16 - OTHER INFORMATION

Declaration: This Chemical Safety Data Sheet is compiled in accordance with "Content and Project Sequence of Chemical Safety Data Sheet" (ISO 11014:2009). The above information is considered accurate, but it does not aim to cover all contents. The listed health and safety data may not be suitable for all people and/or all situations, and should only be used as a reference and should not be construed as guarantee of suitability for particular applications.

Users should carefully read this document and use the batteries in the correct manner.

MATERIAL SAFETY DATA SHEET



VALVE-REGULATED LEAD ACID BATTERIES MAINTENANCE-FREE NON-SPILLABLE

Series No: 9990920250101-002

ACCORDING TO ISO 11014-2009 FORMAT

Version: 1.0

Period of validity: July 1, 2025 ~ December 31, 2025

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sealed Lead Acid Battery, Valve Regulated Lead Acid Battery GEL Battery ,
BATTERIES, WET, NONSPILLABLE,electric storage, TN, TNL, TNF, TNS, TNX, TNG, TNFG,
TNC,TNFC, OPZV, DZF,DMF,EVF,DF,FM,TNE, TNEP, AGM Series

Product model:

TN2-500,TN2-1000,TN6-4.0,TN6-7.0,TN12-4.5,TN12-5.5,TN12-6.5,TN12-7.0,TN12-7.2,TN12-9.0,TN12-12,
TN12-18, TN12-20, TN12-24, TN12-33, TN12-38,TN12-45,TN12-50,TN12-55,TN12-65,TN12-75,TN12-100,
TN12-150, TN12-200, TN12-250, TNG12-20, TNG12-65, TNG12-75, TNG12-80, TNG12-100,TNG12-150,
TNG12-200, TNG12-250B, TNX12-21W, TNX12-28W, TNX12-34W, TNX12-690W,TNL12-90L, TNL12-100,
TNL12-180, TNL12-200, TNF12-100, TNF12-150, TNF12-190, TNF12-200, TNC2-500, TNC2-1000, TNC2-
1200, TNC12-65P, TNC12-80P, TNC12-170P, TNC12-200P, 6-DZF-12, 6-DZF-12.3, 6-DZF-12.5, 6-DZF-
12.6, 6-DZF-13, 6-DZF-13.6, 6-DZF-14, 6-DZF-14L, 6-DZF-16, 6-DZF-18, 6-DZF-20, 6-DZF-20.3, 6-DZF-
20.5, 6-DZF-21, 6-DZF-21.6, 6-DZF-21.8,6-DZF-13.2,6-DZF-22, 6-DZF-22.3, 6-DZF-23, 6-EVF-40.6, 3-EVF-
150, 3-EVF-200, 3-EVF-200T, 3-EVF-220, 4-EVF-150, 4-EVF-150T, 4-EVF-155, 4-EVF-180, 6-EVF-
35.5, 6-DZF-12III, 6-DZF-23L,6-EVF-36L,6-EVF-36, 6-EVF-32.5,6-EVF-38,6-EVF-38.3,6-EVF-38.5,6-EVF-
32, 6-EVF-32.3, 6-EVF-32.6,6-EVF-33,6-EVF-45, 6-EVF-45.3, 6-EVF-50, 6-EVF-52, 6-EVF-52.3, 6-EVF-
58,6-EVF-52.5, 6-EVF-52.6, 6-EVF-58.5, 6-EVF-58.6, 6-DMF-21, 6-DMF-22, 6-DMF-23, 6-DMF-25, 6-DMF-
26, 6-DMF-38, 6-DF-35,6-DF-35.5,6-DF-36,6-DF-38,6-DF-48,6-DF-48.5,6-DF-49,6-DF-53,6-DF-62,6-DF-
63,6-DF-64,6-DF-66,6-EVF-58.3,6-EVF-60A,6-EVF-62,6-EVF-73H,6-EVF-83H,6-EVF-100,6-EVF-120H,,6-
EVF-77,6-EVF-93,6-EVF-108,6-EVF-120,6-EVF-61A,4-EVF-153,6-EVF-103A,3-EVF-203,6-EVF-100D,6-
EVF-120D, 6-EVF-150D, 6-EVF-160B, 6-EVF-100A, 3-DF-240, 3-DF-280, 3-DF-320,3-DF-380,6-DF-200,6-
DF-80,6-EVF-103H, 6-EVF-20B, 6-EVF-127,6-EVF-157,6-EVF-63,6-EVF-103E,,6-EVF-107,6-EVF-140,6-DF-
50H,6-GFM-66,6-DF-55H, 6-DF-60H,6-GFM-76,6-DF-65H,6-GFM-86,6-DF-70H,,3-DF-200,6-EVF-135,6-
EVF-150,6-EVF-160B,6-EVF-180,6-FM-7,6-FM-8,6-FM-10,6-FM-12,6-FM-15,TNE12-52,TNE12-58, TNEP12-
28,TNE12-15, TNE12-25

Name of Company:

Tianneng Battery Group Co.,Ltd

Address:Industrial park,Meishan,Changxing County,Huzhou,Zhejiang,China

Tel: +86-572-6058015

Fax: +86-572-6058015

E-mail: export@tiannenggroup.com

SECTION 2- HAZARDS IDENTIFICATION

Hazards identification :

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The battery has passed the vibration test, pressure differential test and leakage test at 55 °C according to Recommendations on the TRANSPORT OF DANGEROUS GOODS Model SPECIAL PROVISION 238. It is not restricted to IATA DGR according to special provision A67 and is not restricted to IMDG CODE according to special provision 238.

Lead/Lead oxides: Under normal conditions of use, lead dust, vapors, and fumes are not generated.

Hazardous exposure may occur when product is overheated, oxidized or otherwise processed or damaged to create dust, vapor or fumes.

Inhalation: Lead dust or fumes may cause irritation of upper respiratory tract or lungs.

Skin Contact: Lead Compounds are not readily absorbed through the skin.

Eye Contact: Lead Compounds may cause eye irritation

Sulfuric acid: Under normal conditions of use, it will not be affected. When the battery is opened and leaks, dangerous contact may occur.

Inhalation: Acid mist may irritate the upper respiratory tract or lungs.

Skin contact: Sulfuric acid can corrode the skin.

Eye contact: Sulfuric acid can cause eye irritation.

SECTION 3- COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture	Percent	CAS No.
Lead/Lead oxides	68%	7439-92-1
Sulfuric Acid	25%	7664-93-9
Separator	2%	65997-17-3
ABS Container	5%	9003-56-9

SECTION 4 - FIRST AID MEASURES

Inhalation

Sulfuric Acid: Remove to fresh air immediately. Give oxygen or artificial respiration if needed. Get immediate medical attention.

Lead/Lead oxides: Remove from exposure, gargle, wash nose and lips, consult physician

Eyes contact

Sulfuric Acid: Flush with plenty of water for at least 15 minutes, hold eyelids open. Get immediate medical attention..

Lead/Lead oxides: Flush immediately with water for 15 minutes, consult a physician

Skin contact

Sulfuric Acid: Flush with large amounts of water for at least 15 minutes, remove any contaminated clothing. If irritation develops seek medical attention.

Lead/Lead oxides: Wash with soap and water.

Ingestion

Sulfuric Acid: Ingestion: Do not induce vomiting. Dilute by giving large quantities of water. If available give several glasses of milk. Do not give anything by mouth to an unconscious person. Give CPR if breathing has stopped. Get immediate medical attention.

Lead/Lead oxides: Consult a physician immediately

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SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not Applicable

Extinguishing Media:

Use water, foam or dry powder, as appropriate to extinguish fire.

Fire Fighting Procedures:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Fight fire from the maximum distance. Evacuate area.

Specific Hazards:

When involved in a fire, the battery may decompose and produce irritating fumes containing metal oxides. And plastic may create toxic vapors, gases or fumes under fire conditions.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear appropriate personal protective equipment as specified in Section 8.

Environmental Precautions:

This material may be non-hazardous in ordinary use and may be discarded in accordance with applicable governmental regulations and take order with the demands of the environmental protection section.

Methods of Clean up:

Spill and leaks are unlikely because cells are contained in a sealed case. In the event of a battery rupture, prevent skin contact and collect all released material in a plastic lined metal container to prevent spill from entering drinking water supplies or streams. Any product recovery or disposal must comply with local, state, federal, international or country Specific regulations.

SECTION 7 - HANDLING AND STORAGE

Handling: It can be used normally under the temperature of -20~40℃. All connections should be connected accurately to avoid the possibility of a short circuit. Do not let oil and water or other contamination drop on the top of battery while working. Use only in the well-ventilated areas. Keep away from heat, sparks and open flames. Make available in the work area emergency shower and eyes wash. Avoid contact with skin and eyes. Use of full-length sleeves and pants; boots or work shoes are recommended for manufacturing operations.

Storage: Store in cool, dry, well-ventilated area and away from combustible materials, sources of ignition, excessive heat and direct sunlight. Do not store in sealed areas.

Warning: Not for use on children under 5 years old.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering control: use ventilation equipment, safety showers and eye baths

Personal protective equipment:

Respiratory: Wear government approved air purifying respirator if necessary.

Eyes: Chemical safety glasses.

Clothing: Wear appropriate protective clothing.

Hands: Wear acid-proof gloves.

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Other protective measures: smoking, drinking and eating are strictly prohibited in the workplace. Wash thoroughly after washing your hands.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General Physical Form: The battery is solid.

Odor: The battery is odorless.

Solubility in Water: Lead, lead oxide and lead sulfate are insoluble in water.

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Direct sunlight, overheat, sparks and other sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, potassium, sodium.

Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Lead/Lead Oxides: Toxic by ingestion or inhalation. Chronic poison.

Sulfuric Acid: Contact may cause severe irritation to eyes and skin, causes burns.

Potential Chronic Health Effects:

Be slightly hazardous in case of skin contact (permeate).

Carcinogenic effects: Lead/Lead Oxides: Classified A3 (Proven for animal.) by ACGIH, 2B (Possible for human.) by IARC. Sulfuric Acid: G1 by IARC. Mutagenic effects: Not available.

Teratogenic effects: Not available. Developmental toxicity: Not available.

Lead may be toxic to blood, kidneys, central nervous system (CNS).

Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 12 - ECOLOGICAL INFORMATION

Lead/Lead Oxides:

Eco-toxicity: Not available. BOD5 and COD: No available.

Products of Biodegradation: Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Sulfuric Acid:

Harmful to the environment, can cause pollution to water bodies and soil. Biodegradability and Non-biodegradability : No available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Spent batteries must be treated as hazardous waste and disposed of according to local state, and federal regulations. A copy of this material safety data must be supplied to any scrap dealer or secondary smelter with battery. Put into dustbin, otherwise incineration, otherwise licensed landfill, or safe disposal as required by local, state, federal, international or country specific regulations.

Empty Container Warnings:

Empty containers may contain product residue, follow MSDS and label warnings even after they have been

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emptied.

SECTION 14 - TRANSPORT INFORMATION

GROUND-US DOT:

Our non-spillable lead acid batteries meet all of the following requirements found at DOT 49 CFR 173.159(d)

- When offered for transport, the batteries are protected against short circuits and securely packaged as required by DOT 49 CFR 173.159(d) (1);
- The batteries and outer packaging are marked with the words "NONSPILLABLE" or "NONSPILLABLE BATTER" as required by DOT 49 CFR173.159(d) (2);
- The batteries comply with the vibration and pressure differential tests found in DOT 49 CFR 173.159(d) (3).

AIRCRAFT-ICAO-IATA:

Our non - spillable lead acid batteries also are excepted from the international hazardous materials (also known as dangerous goods) regulations since they comply with the following requirements:

- According to the requirements of Packing Instruction 806 in IATA (International Air Transport Association) and ICAO (International Civil Aviation Organization), there should not be any electrolyte leakage after the vibration and pressure differential tests .
- And, Special Provision A67 states Non-spillable batteries are not subject to these Instructions (Packing Instruction 806) if at the temperature of 55°C (131° F), the electrolyte will not flow from a ruptured or cracked case and there is no free liquid flow and if, when packaged for transport the batteries are protected from short circuit and unintentional activation .

VESSEL IMO-IMDG:

Our non-spillable batteries are excepted from the international hazardous materials (also known as dangerous goods) regulations since they conform to the requirements of IMDG Code Special Provision 238, that is the batteries have passed the vibration and pressure differential performance tests, and at a temperature of 55°C, the electrolyte will not flow from a ruptured or cracked case and there is no free liquid flow and if, when package for transport, the terminal are protected from short circuit.

SECTION 15 - REGULATORY INFORMATION

EU regulation:According to regulation (EU)2023/1542, VRLA batteries should carry a crossed wheeled bin symbol with an ISO recycling symbol.



SECTION 16 - OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. RJS Standard Testing & Certification Center shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. License granted to make unlimited paper copies for internal use only.