Timeway

Hong Kong Timeway Technology Development Limited

EC DECLARATION OF CONFORMITY

Certificate Number: LVD 030619-01

We, the

KOWDAK TECHNOLOGY CO.,LTD

Address: No.7 building, Miaotou Industrial Park, Huangpu, Guangzhou, China

declare the product

Description:	SEALED VALVE REGULATED LEAD-ACID BATTERY
Brand Name:	BESOO
Model:	6V Series, 12V Series

Complies with the requirements of the

Applicable Standard (s):

EN50342:2001

General Remarks:

The tests were performed in normal operation mode. The test results apply only to the particular sample tested and to the specific tests carried out.

This certificate applies specifically to the sample investigated in our test reference number only.

The CE markings as shown below can be affixed on the product after preparation of necessary conformity documentation, as stipulated in article 10 of the Council Directive.

Manufacturer/Importer

Test Laboratory

CE

Signature

KF Wan

For Chief Executive

Date of Issue: 2003-07-15

海 运
By Sea

NO.2218020099

CNAS 中国认可 检验 INSPECTION CNAS IB0071

货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

非限制性货物

样品名称： 密封铅酸蓄电池NP7—12 12V 7Ah

Sample Name: Sealed Lead Acid Battery

委托单位： 荣昱（清远）超能源有限公司

生产单位： 荣昱（清远）超能源有限公司

上海化工研究院检测中心 检验专用章

上海化工研究院检测中心
（上海天科化工检测有限公司）
Shanghai Research Institute of Chemical Industry Testing Centre
(Shanghai TECH. Chemical Industry Testing Co.,Ltd)

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样品名称 Sample Name	中文 Chinese	密封铅酸蓄电池NP7－12 12V 7Ah
	英文 English	Sealed Lead Acid Battery
委托单位 Consignor		荣昱（清远）超能源有限公司
生产单位 Manufacturer		荣昱（清远）超能源有限公司
检验方法、程序 Inspection Methods and Procedures		国际海事组织《国际海运危险货物规则》(2016版) IMO International Maritime Dangerous Goods Code (2016 Edition)
样品外观与气味 Appearance & Odor		黑色塑胶外壳，无臭 Black Plastics cement shell, Odorless

IDENTIFICATION CONCLUSIO 鉴定结论

1. 危险性识别(Hazards identitfication)

   无。
   None.

2. 海运按照IMO IMDG Code办理的类项(Suggestion according to IMO IMDG Code)

   根据特殊规定238，可按非限制性货物条件办理。
   The substance is not subject to IMO IMDG Code according to special provision 238.

3. 包装要求(Packaging requirements)

   无。
   None.

检验日期: Inspection Date: 2019-03-01　　签发日期: Issue 2019-03-01　　生效日期: Valid Date: 2019-03-01

备注 Comment	无。 None.

批准 Approver:　　审核 Checker:　　主检 Appraiser:

货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

NO. 2218020099

序号 No	检验项目名称 Name of Test Items	标准要求或标准条款号 Standard requirement or The Clause Number of Standard	检测结果 Test Result	本项结论 Conclusion	备注 Remark
1	振动试验 Vibration test	联合国《关于危险货物运输的建议书 规章范本》（19th）3.3章特殊规定238(a) UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Model Regulations(19th) Chapter 3.3 SPECIAL PROVISIONS 238(a)	合格。 Passed.	合格。 Passed.	/
2	压差试验 Pressure differential test	联合国《关于危险货物运输的建议书 规章范本》（19th）3.3章特殊规定238(a) UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Model Regulations(19th) Chapter 3.3 SPECIAL PROVISIONS 238(a)	合格。 Passed.	合格。 Passed.	/
3	55℃漏液试验 Leakage test at 55℃	联合国《关于危险货物运输的建议书 规章范本》（19th）3.3章特殊规定238(b) UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS" Model Regulations(19th) Chapter 3.3 SPECIAL PROVISIONS 238(b)	合格。 Passed.	合格。 Passed.	/
备注 Comment		这种电池须牢固在内包装中，以有效防止短路和防止可导致短路的移动。 Such batteries must be packed in inner packagings in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits.			

货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

报告结束

MATERIAL SAFETY DATA SHEET

VALVE-REGULATED LEAD-ACID/GEL BATTERY
SEALED MAINTENANCE-FREE NON-SPILLABLE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: Sealed Maintenance Free Valve Regulated Lead-Acid/Gel Battery
Product Series: NP, GP & FT Series
Common Synonyms: SLA, VRLA, AGM, GEL
DOT Description: Wet Battery, Non-Spillable
Chemical Family: Electrical Battery Standby
Manufacturer's Name: GLORY STAND ENERGY (QINGYUAN) LIMITED
Address: No.32 Ngai Lik Electronics Induatrial Estate,
Longtang Town, Qingyuan Experimental Economy Dev. Qingyuan City,
Guangdong Province, China

Date Issued: June 01, 2019

SECTION 2: HAZARDOUS INGREDIENTS/ IDENTITY INFORMATION

COMPONENTS	Approx % by Wt.	CAS Number	Air Exposure Limits (μg/m$^{3)}$			LD50 ORAL (mg/kg)
			ACGIH TLV	OSHA	NIOSH	
Inorganic Lead/Lead Compounds	65%-75%	7439-92-1	150	50	10	500
Tin	<0.5%	7440-31-5	2000	2000	--	--
Calcium	<0.1%	7440-70-2	--	--	--	--
Dilute Sulfuric Acid	~20%	7664-93-9	1000	1000	1000	2.14
Fiberglass Separator	~ 5%	--	--	--	--	--
Case Material: Acrylonitrile Butadine Styrene (ABS)	~5%	9003-56-9	--	--	--	--

SECTION 3: PHYSICAL DATA

COMPONENTS	DENSITY	MELTING/BOILING (M/B) POINT	SOLUBILITY (H2O)	ODOR	APPEARANCE
Lead	11.34	327.46 °C, 621.43 °F (M)	None	None	Sliver-Gray Metal
Lead Sulfate	6.20	1170 °C, 2138 °F (B)	40 mg/l (15 °C, 59 °F)	None	White crystals or powder
Lead Dioxide	9.40	290 °C, 554 °F (M)	None	None	Dark brown Powder
Sulfuric Acid	~1.3	95°C -115°C , 203°F - 240°F (B)	100%	Sharp, penetrating, pungent odor	Clear Colorless Liquid
Fiberglass Separator	--	--	Slight	None	White Fibrous
Case Material: Acrylonitrile Butadine Styrene (ABS)	--	--	None	None	Solid

MATERIAL SAFETY DATA SHEET

VALVE-REGULATED LEAD-ACID/GEL BATTERY
SEALED MAINTENANCE-FREE NON-SPILLABLE

SECTION 4: FLAMMABILITY DATA

COMPONENTS	FLASHPOINT	EXPLOSIVE LIMITS	COMMENTS
Lead	None	None	None
Sulfuric Acid	None	None	None
Hydrogen	--	LEL=4.1%	Sealed batteries can emit hydrogen only if over charged (float voltage> 2.4 VPC). The gas enters the air through the vent caps. To avoid the chance of a fire or explosion, keep sparks and other sources of ignition away from the battery. Extinguishing Media: Dry chemical, foam, CO2
Fiberglass Separator	--	--	Toxic vapors may be released. In case of fire: wear self-contained breathing apparatus.
Acrylonitrile Butadine Styrene (ABS)	None	--	Temperatures over 300 °C (572°F) may release combustible gases. In case of fire: wear positive pressure self-contained breathing apparatus.

SECTION 5: REACTIVITY DATA

COMPONENT	**Lead/lead compounds**
Stability	Stable
Incompatibility	Potassium, carbides, sulfides, peroxides, phosphorus, sulfurs, ketone, ester, petrolatum
Decomposition products	Oxides of lead and sulfur.
Condition to avoid	High temperature, Sparks and other sources of ignition.
COMPONENT	**Sulfuric Acid**
Stability	Stable
Incompatibility	Reactive metals, strong bases, most organic compounds
Decomposition products	Sulfuric dioxide, trioxide, hydrogen sulfide, hydrogen
Condition to avoid	Prohibit smoking, sparks, etc. from battery charging area. Avoid mixing acid with other chemicals.
POLYMERIZTION	Sulfuric acid will not polymerize

SECTION 6: HEALTH HAZARD DATA

Battery is considered as sealed non-spillable one. Under normal operating conditions, the materials sealed inside should not be hazardous to people's health. Only when these materials exposed during production or under case broken condition or being extremely heated (fired), they may be hazardous to people's health.

Routes of Entry:
Sulfuric Acid: Harmful by all routes of entry.
Lead Compounds: Hazardous Exposure can occur only when product is heated, oxidized, or otherwise processed or damaged to create dust, vapor or fume.

Inhalation:
Sulfuric Acid: Breathing sulfuric acid vapors and mists may cause severe respiratory problems.
Lead Compounds: Dust or fumes may cause irritation of upper respiratory tract or lungs.
Fiberglass Separator: Fiberglass is an irritant to the upper respiratory tract, skin and eyes. For exposure up to 10F°/ use MSA Comfoll with type H filters. Above 10F use Ultra Twin with type H filter. This product is not considered carcinogenic by NTP or OSHA.

Skin Contact:
Sulfuric Acid: Severe irritation, burns and ulceration.
Lead Compounds: Not absorbed through the skin.

Ingestion:
Sulfuric Acid: May cause severe irritation of the mouth, throat, esophagus, and stomach.
Lead Compounds: May cause abdominal pain, nausea, vomiting, diarrhea, and severe cramping. Acute ingestion should be treated by a physician.

Acute Health Hazards:
Sulfuric Acid: Severe skin irritation, burns, damage to cornea may cause blindness, upper respiratory irritation.
Lead Compounds: May cause abdominal pain, nausea, headaches, vomiting, loss of appetite, severe cramping, muscular aches and weakness, and difficulty sleeping. The toxic effects of lead are cumulative and slow to appear. It affects the kidneys, reproductive and central nervous systems. The symptoms of lead overexposure are listed above. Exposure to lead from a battery most often occurs during lead reclamation operations through the breathing or ingestion of lead dust or fumes.

Chronic Health Hazards:
Sulfuric acid: Possible scarring of the cornea, inflammation of the nose, throat and bronchial tubes, possible erosion of tooth enamel.
Lead Compounds: May cause anemia, damage to kidneys and nervous system, and damage to reproductive system in both males and females.

Medical Conditions Generally Aggravated by Exposure
Inorganic lead and its compounds can aggravate chronic forms of kidney, liver, and neurological diseases. Contact of battery electrolyte (acid) with the skin may aggravate skin diseases such as eczema and contact dermatitis. Overexposure to sulfuric acid mist may case lung damage and aggravate pulmonary conditions.

Emergency and First Aid Procedures
Inhalation
Sulfuric Acid: Remove to fresh air immediately. If breathing is difficult, give oxygen
Lead Compounds: Remove from exposure, gargle, wash nose and lips, consult physician
Ingestion
Sulfuric Acid: Do not induce vomiting, consult a physician immediately.
Lead Compounds: Consult a physician immediately
Eyes
Sulfuric Acid: Flush immediately with water for 15 minutes, consult a physician.
Lead Compounds: Flush immediately with water for 15 minutes, consult a physician
Skin
Sulfuric Acid: Flush with large amounts of water for at least 15 minutes, remove any contaminated clothing. If irritation develops seek medical attention.
Lead Compounds: Wash with soap and water.

SECTION 7: CARCINOGENICITY

Carcinogenicity
Sulfuric Acid: The National Toxicological Program (NTP) and The International Agency for Research on Cancer (IARC) have classified strong inorganic acid mist containing sulfuric acid as a Category 1 carcinogen, a substance that is carcinogenic to humans. The ACGIH has classified strong inorganic acid mist containing sulfuric acid as an A2 carcinogen (suspected human carcinogen). These classifications do not apply to liquid forms of sulfuric acid or sulfuric acid solutions contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse of the product, such as overcharging, may result in the generation of sulfuric acid mist.
Lead Compounds: Human studies are inconclusive regarding lead exposure and an increased cancer risk. The EPA and the International Agency for Research on Cancer (IARC) have categorized lead and inorganic lead compounds as a B2 classification (probable/possible human carcinogen) based on sufficient animal evidence and inadequate human evidence.

SECTION 8: PRECAUTIONS FOR SAFE HANDLING AND USE

Spill or Leak Procedures
In case the release occurs, stop flow of material: contain/absorb small spills with dry sand, earth, and vermiculite. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. Do not allow discharge of unneutralized acid to sewer.

Waste Disposal Method
Spent Batteries - send to secondary lead smelter for recycling. Follow applicable federal, state and local regulations
Neutralize as in preceding step. Collect neutralized material in sealed container and handle as hazardous waste as applicable.
A copy of this MSDS must be supplied to any scrap dealer or secondary lead smelter with the battery. Or, consult state environment agency and/ or federal EPA.

Handling and Storing
Store batteries in a cool, dry, well ventilated area that are separated from incompatible materials and any activities which may generate flames, sparks, or heat. Keep all metallic articles that could contact the negative and positive terminals on a battery and create a short circuit condition. Battery should be stored under roof for protection against adverse weather conditions.
Store and handle only in areas wit adequate water supply and spill control. Avoid damage to battery case.

Electrical Safety
Due to the battery's low internal resistance and high power density, high levels of short circuit current can be developed across the battery terminals. Do not rest tools or cables on the battery. Use insulated tools only. Follow all installation instructions and diagrams when installing or maintaining battery systems.

Fiberglass Separator
Fiberglass is an irritant to the upper respiratory tract, skin and eyes. For exposure up to 10F°/ use MSA Comfoll with type H filters. Above 10F use Ultra Twin with type H filter. This product is not considered carcinogenic by NTP or OSHA.

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SECTION 9: ECOLOGICAL INFORMATION

Lead and its compounds can pose a threat if released to the environment. See Waste Disposal Method in Section 8.

SECTION 10: CONTROL MEASURES

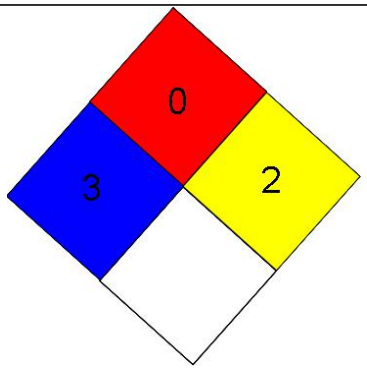
Engineering Controls: Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid resistant
Work Practices: Handle batteries cautiously to avoid damaging the case. Avoid contact with internal components. Do not allow metallic articles to contact the battery terminals during handling.
Respiratory Protection: None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed PEL, use NIOSH or MSHA-approved respiratory protection.
Personal Protection and Equipment: None needed under normal conditions. If battery case is damaged, • Protective gloves: use rubber or plastic acid-resistant gloves with elbow-length gauntlet. • Eye protection: use chemical goggles or face shield. • Other protection: Acid-resistant apron. Under severe exposure or emergency conditions, wear acid –resistant clothing and boots. • In areas where sulfuric acid is handled in concentrations greater than 1%, emergency eyewash stations and showers should be provided, with unlimited water supply.

SECTION 11: NFPA HAZARD RATING FOR SULFURIC ACID

A. Not applicable under normal conditions.
B. Incase of damage resulting in breakage of the battery container, see section10, personal protection and equipment.

SECTION 12: NFPA HAZARD RATING FOR SULFURIC ACID

Flammability (Red)	**0**
Health (Blue)	**3**
Reactivity (Yellow)	**2**



SECTION 13: TRANSPORTATION REGULATIONS (*Non-Restricted Status*)

Proper Shipping Name: UN2800 — Batteries, wet, Non- Spillable, and electric storage
North America Ground and Air Shipment Our non-spillable lead acid/gel batteries are under the U.S. Department of Transportation's (DOT) hazardous materials regulations but are excepted from these regulations since they meet all of the following requirements found at 49 CFR 173.159(d) – NMFC # 60680 Class 65. • When offered for transport, the batteries are protected against short circuits and securely packaged as required by 49 CFR 173.159(d) (1); • The batteries and outer packaging are marked with the words NONSPILLABLE BATTERY as required by 49 CFR

173.159(d) (2);
The batteries comply with the vibration and pressure differential tests found in 49 CFR 173.159(d) (3) and "crack test" found at 49 CFR 173.159(d) (4).

International Shipments

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

- The vibration and pressure differential tests found in Packing Instruction 806 and Special Provision A67 of the **International Air Transport Association (IATA) Dangerous Goods Regulations**;

The vibration and pressure differential tests found in Packing Instruction 806 and Special Provision A67 of the **International Civil Aviation Organization (ICAO)** Technical Instructions for the Safe Transport of Dangerous Goods by Air;

- The vibration, pressure differential, and "crack" tests found in Special Provision 238.1 and 238.2 of the **International Maritime Dangerous Goods (IMDG) Code.**

SECTION 14: Regulatory Information

RCRA
Spent lead acid/gel batteries are not regulated as hazardous waste by the EPA when recycled, however state and international regulations may vary.

CERCLA (superfund) and EPCRA
(a) Reportable Quantity (RQ) for spilled 100% sulfuric acid under CERCLA (superfund) and EPCRA (Emergency Planning Community Right to Know Act is 1,000lbs. State and local reportable quantities for spilled sulfuric acid may vary.
(b) Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA with a Threshold Planning Quantity (TPQ) of 1,000lbs.
(c) EPCRA Section 302 Notification is required if 1,000lbs. or more of sulfuric acid is present at one site. The quantity of sulfuric acid will vary by battery type. Contact Power-Sonic Corporation for additional information.
(d) EPCRA Section 312 Tier 2 reporting is required for batteries if sulfuric acid is present in quantities of 500lbs. or more and/or lead is present in quantities of 10,00lbs. or more.
(e) Supplier Notification: This product contains toxic chemicals which may be reportable under EPCRA Section 313 Toxic Chemical Release Inventory (Form R) requirements. If you are a manufacturing facility under SIC codes 20 through 39 the following information is provided to enable you to complete the required reports:

Toxic Chemical	CAS Number	Approximate % by weight
Lead	7439-92-1	60
Sulfuric Acid	7664-93-9	10 - 30
Arsenic	7440-38-2	<0.01

If you distribute this product to other manufacturers in SIC codes 20 through 39, this information must be provided with the first shipment in a calendar year. The Section 313 supplier notification requirement does not apply to batteries which are "consumer products". Not present in all battery types. Contact Power-Sonic Corporation for further information.

TSCA

Components	CAS Number	TSCA Status
Electrolyte Sulfuric Acid (H2SO4)	7664-93-9	Listed
Inorganic Lead Compound: Lead (Pb)	7439-92-1	Listed
Lead Oxide (PbO)	1917-36-8	Listed
Lead Sulfate (PbSO4)	7446-14-2	Listed
Calcium (Ca)	7440-70-2	Listed
Tin (Sn)	7440-31-5	Listed
Arsenic (As)	7440-38-2	Listed