



HEBEI TIANYI ELECTRIC APPLIANCE CO., LTD.

DIRECT GLOBAL SALES

Song Yang

Email: yhc240110@gmail.com

WhatsApp / Tel: +86 166 3191 9138

Web: tianyipowerglobal.com

MARKETING CENTER

No. 119, Jianshe North Street, Julu
County, Xingtai City, Hebei
Province, China

PRODUCTION BASE

Dongzhuang Industrial Zone, Julu
County, Xingtai City, Hebei
Province, China

INNOVATION TECHNOLOGY CYCLE LIFE

EFFICIENT | ENERGY | ENVIRONMENTAL-FRIENDLY | SAFETY

HEBEI TIANYI ELECTRIC APPLIANCE CO., LTD



400

More than 400 employees

25

25 engineers for technical research

48

48 quality inspectors

9

9 battery production lines with environmental protection

ISO14001

ISO9001

OHSAS18001

UL

CE

ABOUT US

Hebei Tianyi Electric Appliance Co., Ltd was founded in 2001, which is large-scaled manufacturer integrating in lead acid battery manufacturing and research, lithium ion battery manufacturing and research, after-sales service and import&export business. With the development more than 20 years, we company currently have more than 400 employees with 25 technical personnel, 48 quality inspectors, and we own 9 advanced environment-friendly battery production lines. We have got ISO14001 Environmental Management System certification, ISO9001 Quality Management System certification, OHSAS18001 Occupation Health and Safety Management System certification, and we also have approved UL certificate, CE certificate etc. We Obtained the National High-tech Enterprise, won the honors of Famous Brand in 'Hebei', R&D center for city level, Safety standardization three-level enterprise etc.



ENTERPRISE HONOR





CAPACITY OF PRODUCTION

2

2 Production lines for Medium-Large sized VRLA Battery

15

More than 150000 KVAH Monthly Production Capacity

4

4 Production lines for small sized VRLA battery

100

More than 100 Automation Equipments

2800

Produce 2800 tons battery plates for Month

Lead Acid BATTERY

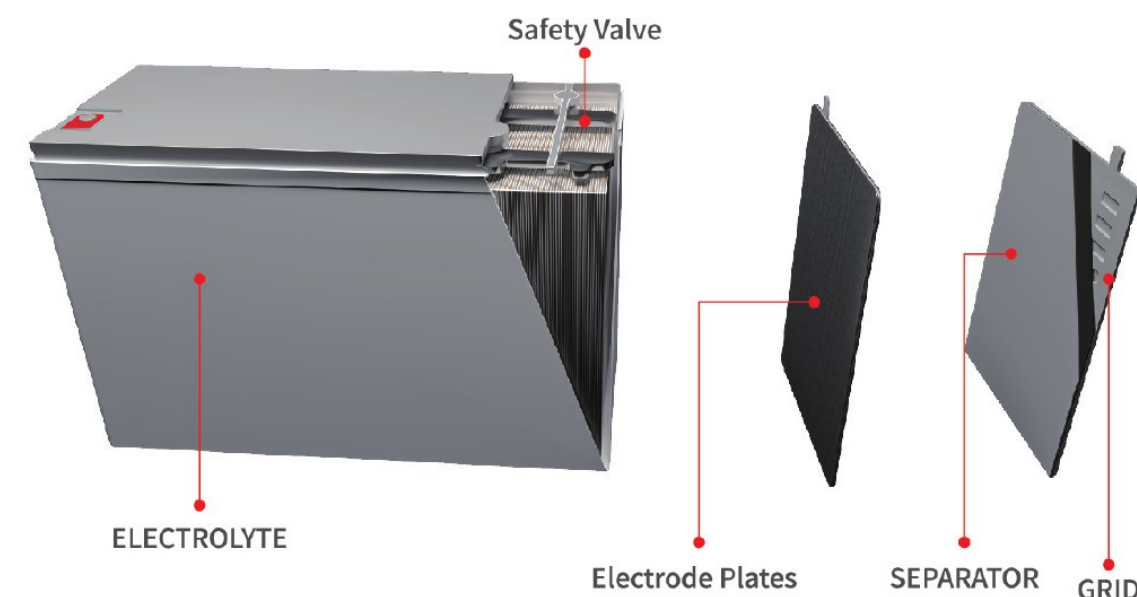
We own 6 assembly production lines for VRLA battery included 4 production lines for small sized VRLA battery and 2 production lines for Medium-Large sized VRLA battery, More than 150000KVAH monthly production capacity. We are deeply focus on upgrading technology, More than 100 Automation Equipments included automated battery pack board Machine, Automated cast welding machine,automated filling glue machine and autamated packing machine etc.

Battery Plate

We have battery Plate production department for monthly prouduction 2800 tons included Pure water refining workshop, Powder making workshop, Pasting workshop, formation workshop, curing workshop and plate drying workshop. We adopt the advanced automated continued welding machine for plate producing to improve the uniformity of plate and improve the production efficiency.

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BATTERY STRUCTURE



GRID

Grid is a kind of grid object welded by lead base alloy. It is carrier of active substances which is function for strut and adhesive active substances. As a conductor of current, it plays the role of collecting, converging and transporting current.

ELECTRODE PLATES

Electrode plates is composed of grid and lead paste containing active substances. It is divided into positive plate and negative plate. The plate is the parent of the electrochemical reaction, which is not only the electrode that forms voltage, also the conversion body formed by current. It is an important component that determines the battery life.

SEPARATOR

A large amount of electrolyte can be absorbed by separator, it can make the electrolyte diffuse freely and free migration of positive and negative ions in electrode reaction. The separator can prevent the lead paste material from falling off and being damaged by shock, and can prevent the plate from fallin off contacts with the adjacent plate.

SAFETY VALVE

The safety valve can limit the discharge of pressure inside the battery. It is effectively prevent water loss of battery and prevent the battery shell bursting due to the sudden increase of air pressure in the battery due to overcharge and overheating.

ELECTROLYTE

The electrolyte is mainly a dilute sulfuric acid solution prepared from sulfuric acid, deionized water or distilled water. It participates in the electrochemical reaction, it is the conductor of positive and negative ions in the solution, and is the diffusion of the temperature of the electrode plate



APPLICATION FIELD OF LEAD-ACID BATTERY



After more than 20 years of development, we have gathered more than 20 battery R&D personnel, who have accumulated rich experience in the battery industry. The R&D of the company adheres to the principle of "customer-centered", and we are firmly control the technical standards and quality standards to provide customers with many new products and energy solutions. It saves time and cost for customers.

The battery is widely used in the solar system, security system, UPS system, weighing scales, toy cars, electric tool, wheel chair,etc. We have exported to South America, Middle-East, East Europe, South East Asia and other countries and regions.

UPS POWER SUPPLY

SECURITY SYSTEM

COMMUNICATION BASE STATION

PHOTOVOLTAIC POWER GENERATION

EMERGENCY LAMP

STREET LAMP

TOY CAR





SMALL SERIES

BATTERY FEATURES

- Valve control and sealing design, no free electrolyte, maintenance-free
- Corrosion preventive, Long cycle life
- Stable performance, low internal resistance
- Thickened high tin electrode plate, corrosion preventive for Grid
- Wide operating temperature range: -20°C-35°C
- UL certification(MH63092)

**4V4AH**

47*47*100(105)mm

**4V4.5AH**

47*47*100(105)mm

**4V5AH**

70*47*100(105)mm

**4V6AH**

47*47*100(105)mm

**6V1.3AH**

97*24*52(57)mm

**6V2.8AH**

135*35*60(65)mm

**6V3.2AH**

135*35*60(65)mm

**6V5AH**

70*47*100(105)mm

**6V12AH**

151*51*94(100)mm

**6V4AH**

70*47*100(105)mm

**6V7AH**

151*35*95(101)mm

**12V1.3AH**

98*43*52(57)mm

**6V4.5AH**

70*47*100(105)mm

**6V10AH**

151*51*94(100)mm

**12V2.2AH**

179*35*62(67)mm

**12V2.8AH**

80*58*99(104)mm

**12V4AH**

90*70*101(106)mm

**12V4.5AH**

90*70*101(106)mm

**12V9AH**

151*65*96(101)mm

**12V10AH**

151*99*95(100)mm

**12V12AH**

151*99*95(100)mm

**12V5AH**

90*70*101(106)mm

**12V6AH**

151*65*96(101)mm

**12V6.5AH**

151*65*96(101)mm

**12V14AH**

151*99*95(100)mm

**24V4.5AH**

179*70*102(107)mm

**24V5AH**

179*70*102(107)mm

**12V7AH**

151*65*96(101)mm

**12V7.5AH**

151*65*96(101)mm

**12V8AH**

151*65*96(101)mm

**24V7AH**

188*102*95(100)mm

**24V8AH**

188*102*95(100)mm

**24V9AH**

188*102*95(100)mm



MEDIUM SERIES

BATTERY FEATURES

- Valve control and sealing design, no free electrolyte, maintenance-free
- Corrosion preventive, Long cycle life
- Stable performance, low internal resistance
- Thickened high tin electrode plate, corrosion preventive for Grid
- Wide operating temperature range: -20°C-35°C
- UL certification(MH63092)

**12V17AH**

181*76*153*169mm

**12V18AH**

181*76*153*169mm

**12V20AH**

181*76*153*169mm

**12V24AH**

174*166*125mm

**12V26AH**

174*166*125mm

**12V28AH**

174*166*125mm

**12V24AH**

165*125*174mm

**12V26AH**

165*125*174mm

**18V28AH**

165*125*174mm

**12V33Ah**

195*130*161(166)mm

**12V38AH**

196*166*175mm

**12V40AH**

196*166*175mm

**12V42AH**

196*166*175mm

**12V45AH**

196*166*175mm

**12V50AH**

196*166*175mm

**12V55AH**

229*138*209(214)mm

**12V60AH**

350*167*174mm

**12V65AH**

350*167*174mm

**12V150AH**

484*170*240mm

**12V180AH**

521*238*218(223)mm

**12V200AH**

521*238*218(223)mm

**12V70AH**

350*167*174mm

**12V75AH**

260*168*213(218)mm

**12V80AH**

260*168*213(218)mm

**12V250AH**

520*267*220(225)mm

**12V100AH**

330*173*216(222)mm

**12V110AH**

330*173*216(222)mm

**12V120AH**

406*174*209*237mm



LITHIUM NEW ENERGY

3

Lithium battery production line

6

More than 60000 KVAH Monthly Production Capacity

50

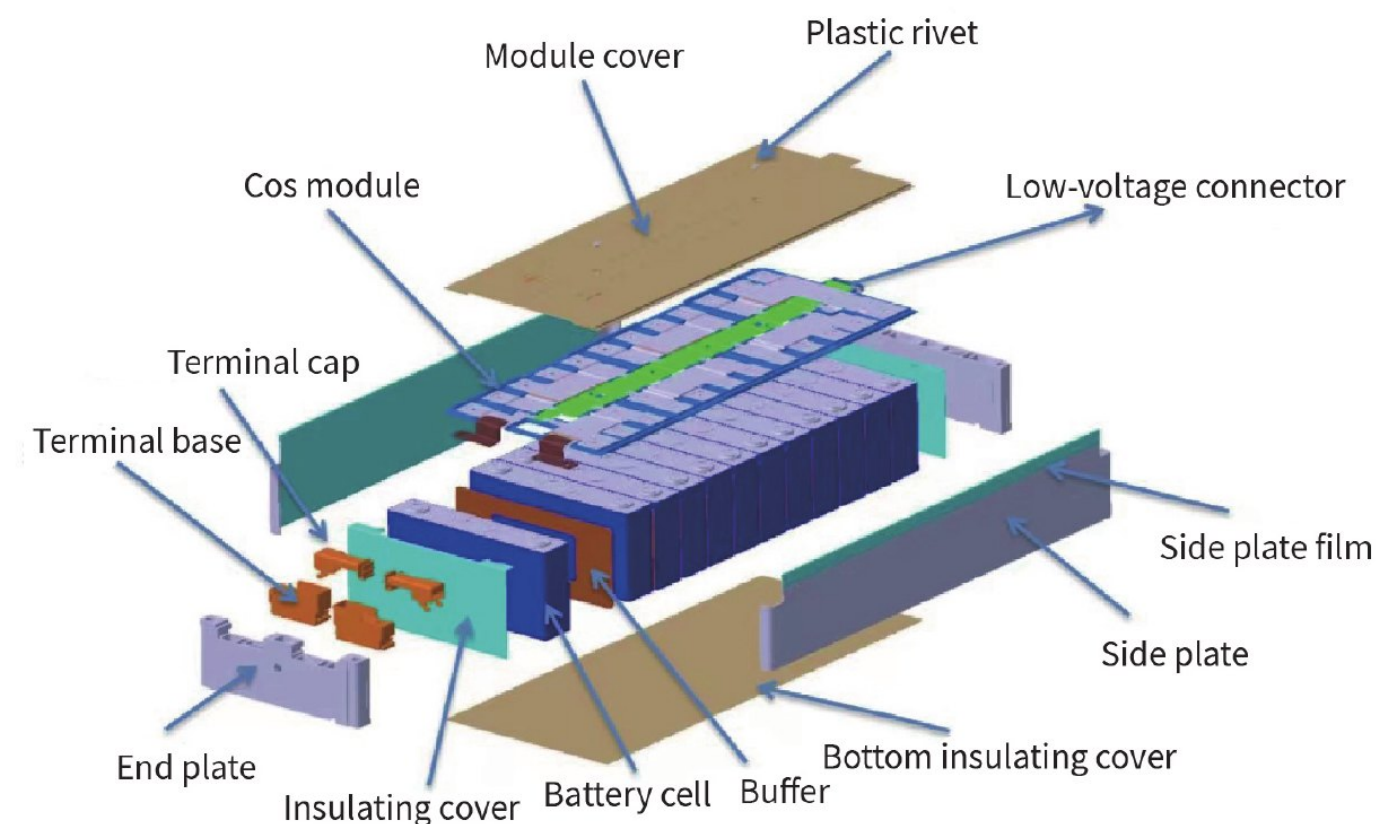
Production technicians

2

Senior engineer

Hebei Tianyi Energy Technology Co.,Ltd has 3 production lines which can produce more than 60000KVAH battery per month. The products cover many industry fields such as energy storage and power, and are widely used in energy storage, electric tricycle, four-wheel vehicle,electric tool and outdoor portable power supply etc. We have more than 50 production technicians included 2 senior engineers, and have advanced production equipment, full testing machine and complete service system. Our business covers the whole industry chain, such as lithium cell, lithium battery system, lithium battery recycling and secondary utilization. The products are hot selling in domestic market and are exported to South East Asia, Europe, South America and other countries and regions. Hebei Tianyi Energy Technology Co.,Ltd is based on the lithium battery for backup power, also we develop the lithium battery for motive power system and energy storage system. Our goal is to become a professional battery solution supplier in China and make efforts to promote the development of new energy and better human life.

AUTOMOTIVE MODULE STRUCTURE





POWER BATTERY



Mode	Voltage	Capacity	Energy	Max continuous current	Dimension	Weight		Terminal type
	V	AH	KWH	A	MM	KG	LBS	
CN100-60	60	100	6.00	100	550*270*200	45.2	99.6	M8/ANDERSON CONNECTOR
CN150-60	60	150	9.00	150	700*335*135	48.3	106.4	M8/ANDERSON CONNECTOR
CN180-60	60	180	10.80	150	470*320*245	52.1	114.8	M8/ANDERSON CONNECTOR
CN230-60	60	230	13.80	150	635*285*250	60.5	133.3	M8/ANDERSON CONNECTOR
CN100-72	72	100	7.20	100	590*270*200	51.4	113.2	M8/ANDERSON CONNECTOR
CN150-72	72	150	10.80	150	700*335*135	54.9	120.9	M8/ANDERSON CONNECTOR
CN180-72	72	180	12.96	150	470*320*245	61.3	135.0	M8/ANDERSON CONNECTOR
CN230-72	72	230	16.56	150	635*285*250	71.2	156.8	M8/ANDERSON CONNECTOR





LITHIUM BATTERY FOR MULTI-PURPOSE





ENERGY STORAGE BATTERY



Intelligent management



Remote control



Independent operation



Customization on demand



Up to 20 years



Off-grid and grid connected are Suitable, Distributed management
Applicable to photovoltaic, wind power plant peak regulation and frequency regulation, urban power peak regulation and valley regulation, commercial energy storage and micro-grid power supply system

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ACCELERATE THE WORLD'S TRANSITION TO SUS-
TAINABLE ENERGY