

丰日电气 服务全球

Fengri Electric Group of Service to the Whole World

丰日电气集团股份有限公司 Fengri Electric Group Co.,Ltd.

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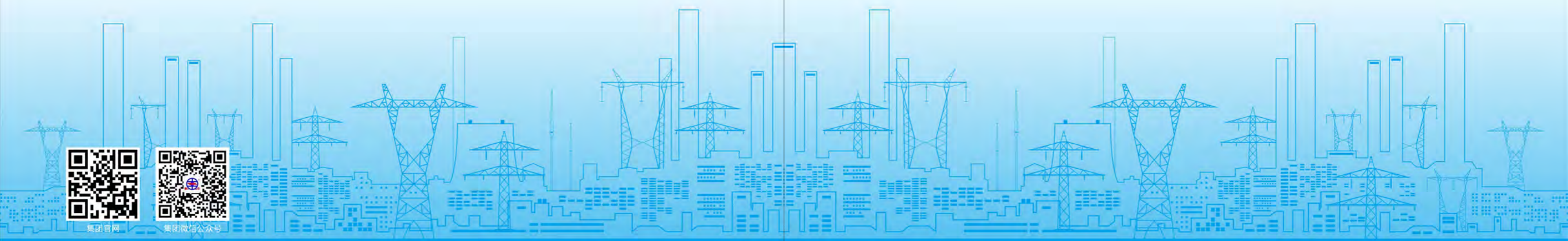
丰日电气集团
FENGRI ELECTRIC GROUP

———— SINCE 1982 ————



集团官网

集团微信公众号





日月经天

江河行地

水沃神州

福润丰日



董事长致辞 Chairman's Address



丰日的持续发展要感谢国内外广大顾客的长期厚爱，国内外专家的大力支持，各级领导和各界朋友的关心与帮助，丰日人的团结拼搏和无私奉献。

丰日人将依靠科技进步，不断创新，用更新更好的产品和服务回报社会。

不断满足顾客的期望与需求，是丰日人永恒的追求。

The sustainable development of Fengri should be attributed to the long-term love of domestic and foreign customers, the great support of domestic and foreign experts, the concern and help of leaders at all levels and friends from all cycles, as well as the unity, hard work and selfless dedication of Fengri's members.

Fengri will continue to progress and innovate based on the scientific and technological, and will produce newer and better products and services in return for the society.

It is an eternal pursuit of Fengri to constantly meet the expectations and demands of customers.

董事长：

Chairman: Li Fugen

总经理致辞 General Manager's Address



各位合作伙伴：丰日电气自1982年建厂以来，我们以阀控铅酸蓄电池为起点，逐步建立了涵盖铅酸电池生产制造及回收、电源成套设备、锂电池系列、电动观光车制造等业务的综合性能源服务集团。随着经济全球化，智能制造、技术创新的不断推进，我司将以优秀的产品、高效的服务、专业的技术构建海内外市场的桥梁，为各位带来高品质的产品体验，成为您在能源领域值得信赖的合作伙伴。创新决定发展，品质成就未来，丰日集团将坚持以人为本，科技兴业的发展理念，扎根能源服务，成就百年丰日品牌。

Dear Partners:

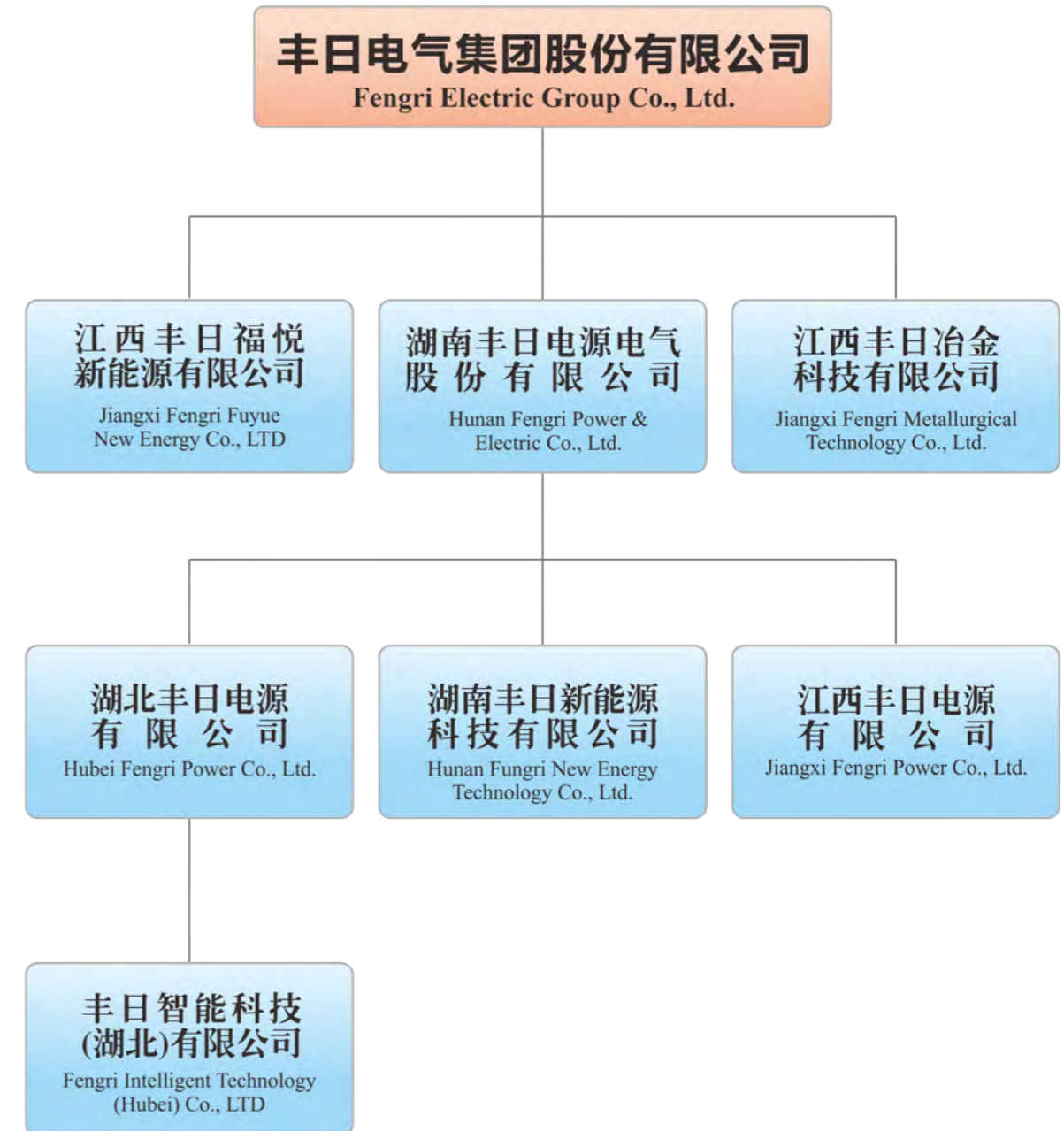
Since the establishment of Fengri electric in 1982, starting from valve regulated lead-acid batteries, we have gradually established a comprehensive energy service group covering the production, manufacturing and recycling of lead-acid batteries, complete power supply equipment, lithium battery series, electric sightseeing car manufacturing and other businesses. With the economic globalization, and the continuous advancement of intelligent manufacturing and technological innovation, our company will build a bridge between domestic and foreign markets with excellent products, efficient services and professional technology to bring you high-quality product experience and become your trusted partner in the energy field. Innovation determines development, and quality makes the future. Fengri group will adhere to the development concept of putting people first and technology thriving enterprise, take root in energy services, and build Fengri century brand.

总经理：黎超程

General Manager: Li Chaoheng



丰日电气集团组织架构
Organizational Structure of Fengri Electric Group





丰日电气集团股份有限公司

丰日电气集团股份有限公司是一家集高性能铅酸蓄电池系列、锂电池系列、直流电源、电气成套设备、各类管道、电动汽车生产销售，废旧电池再生利用等于一体的民营企业集团，公司创立于1982年，坐落于国家级浏阳经济技术开发区，历经40余年的发展，现有下属企业8家，湖南、湖北、江西三大生产基地占地面积近千亩，建筑面积数十万平方米。“丰日”注册商标被国家工商总局评为“中国驰名商标”，产品获“国家质量免检产品”称号。获得百余项国内专利，3项国际专利。

公司电池、电源电气类产品长期供应中国移动、中国

联通、中国电信、中石油、中石化、中海油、矿山、中国铁塔、铁路总公司、中国中车、国家电网、南方电网等大型国企央企，在三峡、酒泉卫星发射中心、军工市场、青藏铁路、葛洲坝、小浪底以及西北电网、750工程等国家重点工程广泛使用，并出口亚洲、美洲、欧洲、澳洲、非洲数十个国家和地区，是德国西门子、日本东芝、加拿大庞巴迪、美国GE和美国EMD等公司的全球供应商。公司观光旅游车、场地运输车、防爆运输车、中低速代步车等多个系列电动车产品销往全国各地并出口欧洲，未来将成为公司重要增长点。



湖北丰日全景图 Full view of Hubei Fengri

Fengri Electric Group Co.,Ltd.

Fengri Electric Group Co., Ltd. is a private-owned enterprise group integrating the production and sales of high-property lead-acid battery series, lithium battery series, DC power suppliers, complete set of electric equipment, various pipes electric vehicles and recycling of waste batteries as a whole. Established in 1982, it is located in the Liuyang National Economic and Technological Development Zone. After over 40 years' development, now the Group has 8 subordinate enterprises, and its three production bases in Hunan, Hubei and Jiangxi cover an area of nearly 167 acres and have a building area of hundreds of thousands of square meters. The registered trademark Fengri was evaluated as China Famous Brand by the State Administration of Industry and Commerce, and the products won the title of National Quality Inspection-Free Product. Besides, Fengri got more than 100 domestic patents and 3 international patents.

The Group have been supplied to many large enterprises such as China Mobile, China Unicom, China Telecom, PetroChina, Sinopec, CNOOC, Mine, China Tower, China Railway, CRRC, State Grid, China Southern Power Grid for a long term, widely applied in many national key projects such as the Three Gorges, Jiuquan Satellite Launch Center, Military Industry Market, Qinghai-Tibet Railway, the Gezhou Dam, Xiaolangdi, Northwest Power Grid, and Project 750; And exported to dozens of countries and regions in Asia, America, Europe, Australia and Africa. Besides, the Group is also the global supplier of Siemens, Toshiba, Bombardier, GE and EMD. What's more, several series of electric vehicles, including sightseeing vehicles, site transport vehicles, anti-explosion transport vehicles, and medium and low speed scooters, are sold in markets throughout the country and exported to Europe, so it will become an important growth point of the Group in the future.



江西丰日公园航拍图 Aerial photo of Fengri Park in Jiangxi



1984年6月，董事长黎福根（右二）与当时中央顾委李志明将军（左二）等首长合影
In June, 1984, Chairman of Fengri Li Fugen (second from right) took a group photo with some senior officers, including General Li Zhiming (second from left), a member of then-Central Advisory Commission



湖南省委副书记、省人大常委会副主任郑培民(左二)在浏阳市委书记袁观清(左一)陪同下视察丰日电气集团。图为公司董事长黎福根向领导们介绍丰日牌蓄电池产品性能。

Zheng Peimin (second from left) - the Deputy Secretary of Hunan Provincial Party Committee and Deputy Director of Standing Committee of Hunan Provincial People's Congress inspected Fengri Electric Group in the company of Yuan Guangqing (first from left) - Secretary of CPC Liuyang Municipal Committee. In the picture, Chairman of Fengri Li Fugen was introducing the properties of Fengri battery product to the leaders.



省政协副主席何报翔、浏阳市委书记钟钢莅临丰日考察、指导工作，图为钟钢(左一)、何报翔(左二)、黎福根(左三)

He Baoxiang - Vice Chairman of Hunan Provincial Committee of CPPCC and Zhong Gang - Secretary of CPC Liuyang Municipal Committee inspected Fengri and gave guidance. In the picture, there was Zhong Gang (first from left), He Baoxiang (second from left) and Li Fugen (third from left).



国家国防科工局罗格司长(右一)莅临丰日视察、指导工作

Luo Ge (first from right) - Director of State Administration of Science, Technology and Industry for National Defense inspected Fengri and gave guidance.



省委书记、省人大常委会主任张春贤视察丰日电气集团。

Zhang Chunxian - the Secretary of Hunan Provincial Party Committee and Director of Standing Committee of Hunan Provincial People's Congress inspected Fengri Electric Group.



国务院八部委领导视察公司。

The Leaders Of Eight Ministries And Commissions Of The State Council Inspected The Company.



全国人大常委会副委员长布赫(左)在湖南省人民政府副省长庞道沐(右二)和长沙市委副书记欧代明的陪同下视察丰日电气集团，图为董事长黎福根(左二)陪同领导们考察。

Bu He (left) - Vice Chairman of Standing Committee of National People's Congress inspected Fengri Electric Group in the company of Pang Daomu (second from right) - vice-governor of Hunan Provincial People's Government and Ou Daiming - the Deputy Secretary of Changsha Municipal Committee. In the picture, Chairman of Fengri Li Fugen (second from left) accompanied the leaders in the inspection.



1998年10月，时任湖南省委书记的杨正午(右)在时任长沙市委副书记欧代明(左)陪同下视察丰日电气集团。图为公司董事长黎福根(中)向领导介绍丰日牌产品概况

In October, 1998, Yang Zhengwu (right) - the Secretary of Hunan Provincial Party Committee inspected Fengri Electric Group in the company of Ou Daiming (left) - then-Deputy Secretary of Changsha Municipal Committee. In the picture, Chairman of Fengri Li Fugen (middle) was introducing the overview of Fengri products to the leaders.



省政府参事、省、市、园区领导莅临丰日调研、考察

Counselors of the Provincial Government, leaders of the province, municipality and park went to Fengri for a survey and inspection.



省工商联领导莅临丰日授牌AAA企业

The Leaders Of The Provincial Association Of Industry And Commerce Awarded The Plaque Of "AAA Enterprise" In Fengri.



国资委王德如司长(左一)莅临丰日指导工作

Director Wang Deru of SASAC (first from left) went to Fengri and gave guidance.



董事长黎福根与中南大学院长黄伯云合影

A group photo of Chairman of Fengri Li Fugen and Huang Boyun - the Dean of Central South University



国家科技部副部长韩德乾一行莅临公司考察并亲笔题词

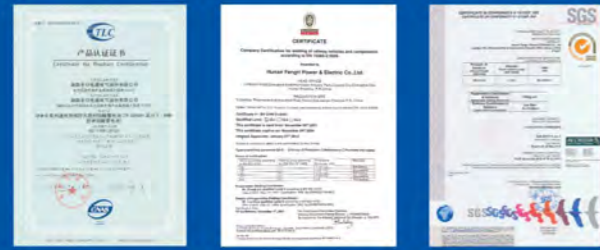
Han Deqian - Vice Minister of Science and Technology went to the Company for an inspection and wrote an inscription.



三大体系认证证书
Certificates of Three Systems



CRCC铁路产品认证证书
CRCC Railway Product Certificates



轨道交通证书
Rail Transit Certificates

TLC泰尔认证证书
TLC Certificates

15085焊接认证证书
EN15085 Welding Certificates



矿用产品安全标志证书
Mine Product Safety Mark Certificates

金太阳认证证书
CGC-SOLAR Certificates

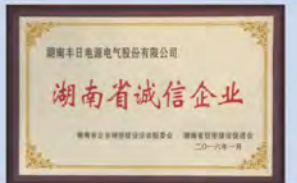


CE证书
The CE Certificates



发明专利证书
Certificates of Patent for Invention

3C认证证书
3C Certificates



国际交流 International Exchanges

Domestic Exchanges 国内交流



印度太阳神国际有限公司p.巴尔查亚先生一行来公司参观考察
A delegation led by MR. P. Barchar from India Apollo International Co., Ltd. Visited and inspected the company.



美国EMD来公司进行供应商审查
EMD came to the Company for supplier audit.



意大利索维马公司总裁来公司视察，图为董事长黎福根向客人介绍公司发展情况
President of Italy Sovema Company inspected the Fengri. In the picture, Chairman Li Fugen was introducing the Company's development to the customers.



瑞典客户莅临丰日进行电动车验收工作
The Swedish customers came to Fengri for acceptance inspection of electric vehicles.



意大利设计师弗朗-西斯科来丰日进行电动车车型技术交流。图为设计师弗朗-西斯科(中)和董事长黎福根(右二)的合影
Fran-Cisco, an Italian designer, came to Fengri for technical exchange of electric vehicle models. This is the group photo of the designer Fran-Cisco (middle) and Chairman of Fengri Li Fugen (second from right).



阿拉伯联合酋长国罗沙公司沙利姆先生一行来公司考察，图为黎福根董事长(右二)与沙利姆(中)先生一行在车间考察时合影留念
A delegation led by Mr. Shalim from Losha Company of the United Arab Emirates inspected the Company. This is the group photo of Chairman of Fengri Li Fugen (second from right) and Mr. Shalim (middle) when they inspected the workshop.



韩国崔先生、金先生一行视察公司，董事长黎福根(右三)陪同参观并合影留念。图中右一为蓄电池高工、专家李中其教授
Mr. Choe and Mr. Kim from South Korea inspected Fengri in the company of Chairman of Fengri Li Fugen (third from right) and took a group photo. In the picture, the first from right was Professor Li Zhongqi who is a senior engineer and expert in storage battery.



委内瑞拉客户考察丰日电气
The customers from Venezuela inspected Fengri Electric.



荷兰籍蓄电池专家赫伯特亲临公司指导工作，图为赫伯特先生在丰田车间现场作指导
Dutch battery expert Herbert visited the company to guide the work. The picture shows Mr. Herbert giving guidance at the Fengtian workshop



14个国家代表在我公司参观考察合影留念
14 national representatives visited the Company and took a group photo.



荷兰籍蓄电池专家赫伯特亲临公司指导工作，图为赫伯特先生与公司董事长合影
Dutch battery expert Herbert visited the company to guide the work. The picture shows Mr. Herbert posing with the chairman of Fengri



丰日电气直电源胶体蓄电池鉴定会
Fengri Electric DC Power Colloid Storage Battery Appraisal Meeting



广东三茂公司领导来公司考察
The leaders of guangdong sanmao company inspected the company



李克明教授为丰日员工授课
Professor Li Keming gave a lecture to the employees of Fengri



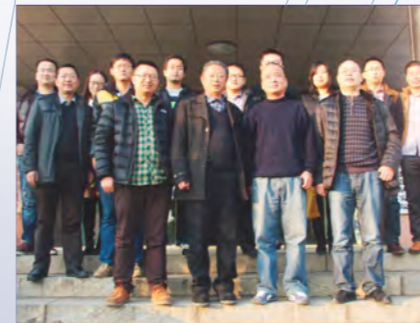
董事长黎福根和东北师范大学签订磷酸铁锂电池合作协议
Chairman Li Fugen and Northeast Normal University signed lithium iron phosphate battery cooperation agreement



黎董事长向湖南电信公司领导介绍产品
Chairman Li introduced the products to the leaders of Hu'nan Telecom Company.



郑州铁路局在公司进行技术交流
Zhengzhou Railway Bureau carried out the technical exchange in the Company



南京浦镇合肥地铁客人孙总一行莅临丰日考察、合影
A delegation led by president sun of Nanjing Puzhen Hefei Subway inspected fengri and took a group photo.



中外继创者工作委员会第一届会员代表大会
The First Member Congress of the Chinese and Foreign Successors Working Committee



CCTV《匠心》栏目组走进丰日电气
CCTV "INGENUITY" column group into Fengri Electric



中国电池工业协会第八届会员代表大会
The 8th Member Congress of China Battery Industry Association



中非民间商会成立十五周年交流晚宴
The 15th Anniversary Exchange Dinner of china-africa Non-governmental Chamber of Commerce

强化科研与生产能力 提升品牌核心竞争力

Strengthen the Scientific Research And Production Capacity

Enhance the core competitiveness of the brand

质量方针
Quality Policy

诚信服务顾客，产品件件质优。
Provide Sincere Services and High-quality Products for Customers

管理持续改进，铸造丰日品牌。
Make Continuous Improvement in Management and Build Fengri Brand



研发大楼 R&D building



铸板工序 Cast plate process



自动包板工序 Automatic wrap plate process



热封工序 Heat sealing process



铅粉工序 Lead powder process



涂片工序 Film preparation process

技术合作学校
Technical Cooperative
Universities

清华大学、浙江大学、中南大学、湖南大学、
东北师范大学、青岛大学、国防科技大学
Tsinghua University, Zhejiang University,
Central South University, Hunan University,
Northeast Normal University, Qingdao University
National University of Defense Technology



Detection lab 检测实验室



Electrolytic solution preparation process 电解液配置工序



Charging process 充电工序





董事长黎福根当选为08年北京残奥会火炬手，图为黎总在长沙传递火炬
Director Li Fugen was elected as torchbearer of the 2008 Beijing Paralympic Games, and Figure shows Mr.Li passed the torch in Changsha

体育精神 Sportsmanship



培训学习 Training and Learning



丰日集团培训教育基地--榴花洞山庄
Fengri Group training and education base - Durian Hole Villa

以人为本 科技兴业

FOCUS ON PEOPLE ORIENTATION
TECHNOLOGY THRIVE ENTERPRISE

质量方针

诚信服务顾客，产品件件质优，
管理持续改进，铸造丰日品牌。

环境方针

人人关爱环境，个个遵守法规，
严抓防治结合，创造蓝天碧水。

职业健康安全方针

注重以人为本，杜绝事故发生，
防治职业危害，关爱健康安全。



湖南丰日电源电气股份有限公司

湖南丰日电源电气股份有限公司是丰日电气集团股份有限公司作为主发起人投资设立的股份制有限公司，是国内最早研发、生产密封免维护铅酸蓄电池和电源电气成套设备的专业企业之一。

公司是湖南省高新技术企业，主导和参与12项国家、行业标准的制订，技术团队占公司总人数的15%以上，其中博士占比3%，硕士占比12%，每年投入数千万元，用于各种新技术、新产品的研发，同时与清华大学、浙江大学、中南大学、湖南大学、东北师范大学等高等院校建立了长期合作关系。

公司主导产品有阀控式密封铅酸蓄电池、锂电池、电力用直流电源、通信用直流电源、箱式变电站、以及智能高压、低压成套电气设备。阀控式密封铅酸蓄电池单体有2V、4V、6V、8V、12V五大系列100多个规格，其单体容量从4Ah-3600Ah。电源设备有UPS/EPS交流不间断电源、微机监控高频开关直流电源、微机控制直流电源、智能高频开关通信电源、高压直流供电系统、智能一体化电源、智能充放电电源，电气成套设备有动力配电箱、智能箱式变电站、自控设备及软件等。

公司产品注册“丰日”牌，2009年被评为“中国驰名商标”，产品荣获“质量免检产品”称号，获得百余项国家专利，3项国际专利，并先后获得国家信息产业部、国家经贸委、中国电力总公司、中国电信集团公司、中国移动公司、中国联通公司、中国电能成套公司、铁道部运

输局、国家广电总局、总参通信部、铁道通信公司、中国船级社、中石油、中石化、中海油等部委、行业、企业入网认证。

产品广泛应用于通信、电力、汽车、轨道交通、工矿企业、市政建设、石油化工、风光储能、部队、船舶、金融、水利、冶金等行业，经上万家单位多年使用。特别是电源、电气产品及配套蓄电池在国家重点工程如三峡、葛洲坝、刘家峡、李家峡、八盘峡、青铜峡、宝鸡峡、酒泉卫星发射中心、青藏铁路以及西北电网750kV、500kV、330kV等级变电站、1000MW、600MW发电机组多年运行，并出口应用于亚洲、拉丁美洲、欧洲、澳洲、非洲等数十个国家的电力、通信、铁路系统，并成为德国西门子、日本东芝、加拿大庞巴迪、美国GE和美国EMD等公司的全球供应商。以稳定的质量、合理的价格、周到的服务赢得了用户的一致好评和信赖。

公司是中国电器工业协会会员单位、中国化学与物理电源行业协会优秀会员单位、中国高压电气网会员单位、湖南省新材料产业协会副理事长单位，湖南省知识产权培育工程优秀企业、国家级专精特新小巨人企业。公司已通过ISO9001质量管理体系、ISO14001环境管理体系认证和OHSAS18000职业健康安全管理体系认证，并通过中国国家强制性产品认证、铁路产品认证、金太阳认证、泰尔认证、中铁产品、中煤安全入网认证。

Hunan Fengri Power & Electric Co., Ltd.

Hunan Fengri Power & Electric Co., Ltd., a joint stock limited company invested and established by Fengri Electric Group Co., Ltd., is one of the professional enterprises which earliest researched and produced sealed maintenance-free lead-acid batteries and complete sets of power and electric equipment in China.

The Company is a high-tech enterprise in Hunan Province, and it led and participated in the formulation of 12 national and industrial standards; The technical team accounts for more than 15% of the company's total staff, of which 3% are doctors and 12% are masters; every year, it invests tens of millions of yuan to research and development of various new technologies and products. At the same time, it has established a long-term partnership with Tsinghua University, Zhejiang University, Central South University, Hunan University and Northeast Normal University and so on.

The leading products of the Company include valve-regulated sealed lead-acid batteries, Li-ion batteries, DC power supply for power system, DC power supply for communications, box-type substations and intelligent high-voltage and low-voltage complete set of electrical equipment. The single valve-regulated sealed lead-acid battery covers more than 100 specifications in five series, including 2V, 4V, 6V, 8V and 12V, and the single capacity ranges from 4Ah to 3600Ah. The power supply devices include UPS/EPS Uninterruptible Power System, microcomputer monitoring high frequency switch DC power supply, microcomputer controlling DC power supply, intelligent high frequency switch communication power supply, high-voltage DC power supply system, intelligent integrated power supply, intelligent charging and discharging power supply, complete set of electrical motivated distribution box, intelligent box-type substation, automatic control equipment and software, etc.

The Company registered Fengri brand for its products, which was awarded China Famous Brand in 2009; and the products won the title of National Quality Inspection-Free Product. It won more than 100 national patents and 3 international patents. Besides, it has obtained the access authentication of such commissions and ministries, industries and enterprises as Ministry of Information Industry, the State Economic and Trade Commission, China Electric Power Corporation, China Telecom Group Corporation, China Mobile Limited, China United Telecommunications Corporation, China Power Complete Equipment Co., Ltd., Transportation Bureau of Ministry of Railway, State Administration of Radio, Film and Television, Department of Communications of Headquarters of the General Staff, Railway Communications Company, China Classification Society, CNPC, Sinopec and CNOOC.

The products have been widely applied by more than 10,000 companies for many years in industries such as communications, power, automobile, rail transit, industrial and mining enterprises, municipal construction, petrochemical engineering, wind and optical energy storage, army, ship, finance, water conservancy and metallurgy. Especially, the power and electric products and the matched batteries have run for many years in the national key projects such as Three Gorges, the Gezhou Dam, Liujiaxia, Liji Xia, Bapanxia, Qingtongxia, Baojixia, Jiuquan Satellite Launch Center, Qinghai-Tibet Railway, as well as 750KV, 500KV and 330KV substations and 1000MW and 600MW generating sets in Northwest Power Grid, and have been exported to dozens of countries in Asia, America, Europe, Australia and Africa, and applied in the power, communication and railway system in these countries. Besides, the Company is also the global supplier of Siemens, Toshiba, Bombardier, GE and EMD. With its stable quality, reasonable price and considerate service, it wins the praise and trust of many users.

The company is a member enterprise of China Electrical Appliance Industry Association, an excellent member enterprise of China Chemical and Physical Power Industry Association, a member of China High Voltage Electric Network, the vice chairman of Hunan New Materials Industry Association, an excellent enterprise in Hunan Province Intellectual Property Cultivation Project, and a national-level professional and specialized enterprise. New Little Giant Enterprise. The Company has passed the certification of ISO9001 quality management system, ISO14001 environmental management system and OHSAS18000 occupational health management system, and China national compulsory product accreditation, railway product accreditation, CCC solar certification, TLC certification, CRCC certification and China Coal safety access authentication.



企业荣誉展柜 Enterprise honor showcase



江西丰日公园全景 Panorama of Fengri Park in Jiangxi



湖北丰日电源有限公司

湖北丰日电源有限公司是湖南丰日电源电气股份有限公司的全资子公司，成立于2009年。公司位于湖北省崇阳经济开发区，居于湘、鄂、赣三省交界处。公司现占地面积128亩，建筑面积约3.8万平方米，拥有自动化生产线2条，年产能120万KVAh。

湖北丰日注册资本为7018万元，总投资为1.8亿元，生产规模为10亿元，创利税5000万元。

湖北丰日产品主要以铅酸蓄电池为主，产品广泛应用于铁路、移动通讯、民航、船舶、煤矿矿山、动力等领域。



湖北生产基地全景 Panorama of Hubei Production Base

Hubei Fengri Power Co., Ltd.

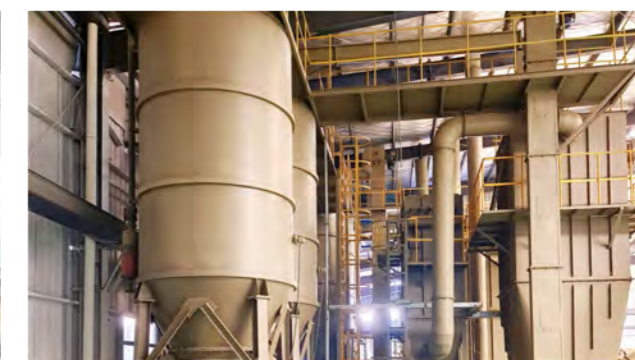
Hubei Fengri Power Co., Ltd., established in 2009, is a wholly-owned subsidiary of Hunan Fengri Power & Electric Co., Ltd. It is located at Chongyang Economic Development Zone in Hubei Province and at the junction of Hunan Province, Hubei Province and Jiangxi Province. It now covers an area of 22 acres and has a building area of about 38,000m². It has 2 automatic production lines, with an annual production capacity of 1.2 million kVAh.

The registered capital of Hubei Fengri is 70.18 million yuan and has a total investment of 180 million Yuan. Its production scale is 1 billion yuan, and it creates profit and tax of 50 million yuan.

The leading product of Hubei Fengri is lead-acid battery, which is widely applied in such fields as railway, mobile communication, civil aviation, ship, coal mines and power.



铸板工序 Slab casting process



Lead oxide process 铅粉工序



充电工序 The charging process



Curing step 固化工序



组装线 Assembly line



Acid process of water 制酸制水工序



丰日智能科技（湖北）有限公司

丰日智能科技（湖北）有限公司属于湖北丰日电源有限公司的全资子公司。丰日智能科技（湖北）有限公司于2018年2月份签约落户崇阳经济开发区丰日大道，2018年2月从湖南浏阳工业园整体搬迁至崇阳经济开发区丰日产业园，总投资5200万元，建筑面积达28000平方米。

公司质量体系健全，通过了ISO9001质量体系 and ISO14001环境体系、GB/T28001-2000职业健康安全管理体系认证。质量体系的有效运行保证了产品质量的稳定和可靠的售后服务。产品已由中国人民保险公司承担质量保险和责任保险。公司主要生产配电开关控制设备、高低压成套设备、直流电源设备、不间断电源、智能充放电电源、箱式变电站等，年生产能力30000台套，可实现产值4.5亿元。产品经全国20余省市移动、电信、联通、铁塔、电力、铁路、广电等行业多年使用，特别是电源、电气产品在国家重点工程如青藏铁路、葛洲坝、三峡工程、酒泉卫星发射中心以及国家电网750KV、500KV、330KV等级变电站、600MW、1000MW发电机组多年运行，出口到也门、伊朗、巴基斯坦、印度、柬埔寨、蒙古、土耳其、印度尼西亚、巴西、委内瑞拉、哈萨克斯坦、刚果、澳大利亚等国家。为德国西门子、加拿大庞巴迪、美国GE等公司的全球供应商和合作伙伴。公司以质量稳定、价格合理、服务周到赢得了用户的一致好评和信赖。

一切以用户利益为中心，公司一如既往地为广大用户提供最优良的产品质量和服务质量，不断满足顾客的期望与需求是我公司永恒的追求。

Fengri Intelligent Technology (Hubei) Co., Ltd.

Fengri Intelligent Technology (Hubei) Co., Ltd. is a wholly-owned subsidiary of Hubei Fengri Power Co., Ltd.. Fengri Intelligent Technology (Hubei) Co., Ltd. signed a contract to settle in fengri avenue of Chongyang Economic Development Zone in February, 2018. Meanwhile, it moved from Hunan Liuyang Industrial Park to Fengri Industrial Park of Chongyang Economic Development Zone, with a total investment of 52 million yuan and a construction area of 28,000 square meters.

The company has a sound quality system and has passed the certification of ISO9001 quality system, ISO14001 environmental system and GB/T28001-2000 occupational health and safety management system. The effective operation of the quality system ensures the stability of product quality and reliability of after-sales service. The quality insurance and liability insurance of the products have been undertaken by the people's Insurance Company of China. The company mainly produces distribution switch control equipment, high and low voltage complete sets of equipment, DC power supply equipment, uninterruptible power supply, intelligent charging and discharging power supply, box type substation, etc., with an annual production capacity of 30000 sets, and an output value of 100million yuan. The products have been used by mobile, telecommunication, unicom, iron tower, electric power, railway, radio and television and other industries in more than 20 provinces and cities across the country for many years. Especially, the power supply and electrical products have been operated for many years in national key projects such as Qinghai Tibet railway, Gezhouba, Three Gorges project, Jiuquan Satellite Launch Center, 750kV, 500kV, 330kV substations, 600MW, 1000MW generator units of the State Grid, and have been exported to Yemen, Iran, Pakistan, India, Cambodia, Mongolia Turkey, Indonesia, Brazil, Venezuela, Kazakhstan, Congo, Australia and other countries. It is the global supplier and partner of Siemens in Germany, Bombardier in Canada, Ge in the United States and other companies. The company has won the unanimous praise and trust of users with stable quality, reasonable price and considerate service.

Taking the interests of users as the center, the company will continue to provide users with the best product quality and service quality. It is an eternal pursuit of Fengri that constantly meet the expectations and needs of customers.



成品仓库 Finished product warehouse



半成品室 Semi finished product room



生产装配车间 Production and assembly workshop



江西丰日电源有限公司

江西丰日电源有限公司成立于2012年3月，由湖南丰日电源电气股份有限公司投资设立的全资子公司，总投资10亿元，项目占地401亩。坐落于袁州区工业园丰日大道1号，紧邻320国道及沪昆高速，距杭南长高铁站10公里，距明月山机场8公里，地理位置优越，交通便利。



研发中心 Research and development center



公司园区 Company park

项目一：180万KVAh大容量新型电池项目

大容量新型电池单体有2V、4V、6V、8V、12V五大系列100多个规格，其单体容量从24Ah-3000 Ah，年生产能力180万KVAh。在国内外通信、电力、铁路、广电、航运、工矿企业、城市轨道交通、风光储能等行业广泛应用。建成达产后将实现年产值15亿元，创利税近2亿元。

项目二：1.2亿安时动力锂电池项目

主要生产新能源汽车动力电池，总投资4.5亿元，依托东北师范大学动力电池国家地方联合工程实验室技术，引进日韩等世界最先进的自动化生产设备；生产各类高性能动力锂电池。达产后将实现年产值8.4亿元，创利税近1.4亿元。

Jiangxi Fengri Power Co., Ltd.

Jiangxi Fengri Power Co., Ltd., established in March, 2012, is the wholly-owned subsidiaries invested and established by Hunan Fengri Power & Electric Co., Ltd., with a total investment of 1 billion Yuan. The project covers an area of 67 acres. It is located at No. 1, Fengri Avenue, the Industrial Park, Yuanzhou District and adjacent to No. 320 National Highway and Shanghai-Kunming Expressway, and it is 10km from Hangnanchang High-speed Railway Station and 8km from Mingyueshan Airport. So, it embraces advantageous geographical location and convenient transportation.



充电工序 Charging process



酸循环设备 Acid recycling equipment



IGBT能量回馈充电机
IGBT energy feedback charging and discharging machine

Project I: 1.8 million kVAh Large-capacity New Battery Project

The large-capacity battery cell covers more than 100 specifications in five series – 2V, 4V, 6V, 8V and 12 V; and the single capacity ranges from 24Ah to 3000 Ah. The annual production capacity reaches 1.8 million kVAh. They are widely applied in the industries such as communications, power, railway, radio and TV, shipping, industrial and mining enterprises, urban rail transit, wind and optical energy storage at home and abroad; after its completing and reaching the design capacity, it will realize the annual output value of 1.5 billion yuan and create profit and tax of nearly 200 million yuan.

Project II: 120 million Ah power Li-ion battery project

It mainly produces the new-energy automobile power batteries, and has a total investment of RMB 450 million . Based on the power battery national-local joint engineering lab technology of Northeast Normal University, it introduces the most advanced automatic production equipment in the world; it is engaged in the production of high-property dynamic lithium batteries. After reaching the design capacity, it will realize the annual output value of RMB 840 million and create profit and tax of nearly RMB 140 million .



固化干燥工序 Curing and drying process



江西丰日福悦新能源有限公司

江西丰日福悦新能源有限公司于2003年6月注册成立，是一家集电动汽车整车、电气系统及关键零部件研发、制造于一体的电动汽车专业公司。目前公司是微型电动车协会会员，参与国家相关技术标准的起草工作。

公司电动汽车依托集团公司电池、电控技术方面的优势，历经十余年的持续研发，已拥有的较强的技术力量与技术积累，共获得十余项国家专利，其中发明专利两项。同时还拥有集团大量的电池、电控专利技术支持。目前公司电动汽车拥有观光旅游车、场地运输车、中低速代步车、防爆车辆（包括防爆运输车、防爆牵引车、防爆叉车）等多个系列的成熟车型，产品销往全国各地并出口欧洲。广泛应用于各大旅游景区、大型房地产公司、工业企业、有防爆需求的企事业单位以及城乡居民出行代步。

近年来，公司进一步加大了对新技术、新车型的研发力度，与意大利设计师进行合作，开发具有国际先进水平和自主知识产权的新型电动车辆，满足客户对车辆性能、外观的新需求。



公司园区 Company park

Jiangxi Fengri Fuyue New Energy Co., Ltd.

Jiangxi Fengri Fuyue New Energy Co., Ltd., registered and established in June, 2003, is a professional electric vehicle company integrating research, development and manufacturing of complete electric vehicles, electric system and key components as a whole. At present, it is a member of Micro-electric Vehicle Association and participates in drafting relevant technical standards of the State.

Relying on the advantages of battery and electric control technology of the company, it has been continuously researching and developing for more than ten years, and has obtained more than ten national patents, including two invention patents. At the same time, it has the great support of batteries and electronic control patented technologies from the Group. So far, the Company has had several series of mature vehicle models, such as sightseeing bus, on-site transport vehicle, middle and low-speed scooter and anti-explosion vehicle (including anti-explosion transport vehicle, anti-explosion tractor and anti-explosion forklift), which are sold in markets throughout the country and exported to Europe and widely applied in the tourist attractions, large real-estate companies, industrial enterprises, enterprises and institutions with anti-explosion demands and travel of urban and rural residents.

In recent years, the Company has further increased the research and development of new technologies and new vehicle models. The company cooperated with the Italian designers to develop new electric vehicles with international advanced level and proprietary intellectual property rights to meet new demands of the customers for the vehicles' properties and appearance.



丰日研发中心 Fengri Research and development center



电动车生产车间 Electric Vehicle Production Workshop



电动车生产线 Electric Vehicle Production Line



电动车生产车间 Electric Vehicle Production Workshop



江西丰日冶金科技有限公司

江西丰日冶金科技有限公司成立于2012年3月，注册资金15000万元，落户于江西省宜春市袁州医药工业园。公司年回收再生十万吨废旧铅酸蓄电池项目占地约70亩，总建筑面积42180m²，总投资3.5亿元，于2020年5月份投入生产，自生产以来运行稳定，年产值达10亿元以上，年纳税1亿元以上。

公司使用目前国内乃至全球最先进的生产工艺，完美的杜绝了拆解过程中产生的铅污染。是我国实现铅工业可持续发展战略、发展循环经济不可缺少的重要组成部分。

公司坚持以社会效益为中心，为蓄电池产品转型升级、蓄电池产业持续发展打基础、蓄力量，竭诚为广大用户提供最优良的产品质量和服务质量，不断满足顾客的期望与需求



江西生产基地全景 Panorama of Jiangxi Production Base

Jiangxi Fengri Metallurgical Technology Co., Ltd.

Jiangxi Fengri Metallurgical Technology Co., Ltd. was established in March 2012 with a registered capital of 150 million Yuan and settled in Yuanzhou Pharmaceutical Industrial Park, Yichun City, Jiangxi Province. The company's annual recycling project of 100,000 tons of waste lead-acid batteries covers an area of 12 acres, with a total construction area of 42,180 m² and a total investment of 350 million Yuan. It was put into production in May 2020. Since its production, it has operated stably, with an annual output value of more than 1 billion Yuan and an annual tax payment of more than 100 million Yuan.

The company uses the most advanced production technology in China, even in the world, which perfectly eliminates the lead pollution generated in the disassembly process. It is an indispensable part of achieving the sustainable development strategy of China's lead industry and developing the circular economy.

The company insists on taking social benefits as the center, laying the foundation and accumulating strength for the transformation and upgrading of battery products and the sustainable development of the battery industry, wholeheartedly providing the best quality of product and service for the majority of users, and continuously meeting the expectations and needs of customers.



江西冶金科技园区 Jiangxi Metallurgical Science and Technology Park

阀控式密封铅酸蓄电池

Valve-controlled type sealed lead-acid batteries

| 数据 Data 规格 Specifications | 参数 Parameter 额定电压 (V) Rated voltage | 10小时 率容量 C ₁₀ (Ah) 10 hour rate capacity | 外形尺寸 (mm) Dimension | | |
|------------------------------------|---|--|------------------------|------------|-------------|
| | | | 长 Length | 宽 Width | 高 Height |
| GFM-100 | 2 | 100 | 63 | 174 | 349 |
| GFM-200 | 2 | 200 | 87 | 186 | 361 |
| GFM-300 | 2 | 300 | 119 | 186 | 361 |
| GFM-400 | 2 | 400 | 151 | 186 | 361 |
| GFM-500 | 2 | 500 | 183 | 186 | 361 |
| GFM-600 | 2 | 600 | 215 | 186 | 361 |
| GFM-800 | 2 | 800 | 289 | 186 | 361 |
| GFM-1000 | 2 | 1000 | 353 | 186 | 361 |
| GFM-1200 | 2 | 1200 | 480 | 174 | 349 |
| GFM-1500 | 2 | 1500 | 268 | 369 | 363 |
| GFM-2000 | 2 | 2000 | 358 | 369 | 363 |
| GFM-3000 | 2 | 3000 | 520 | 369 | 363 |
| 6-FM-24 | 12 | 24 | 166 | 125 | 175 |
| 6-FM-38 | 12 | 38 | 197 | 165 | 170 |
| 6-FM-60 | 12 | 60 | 350 | 166 | 175 |
| 6-FM-65 | 12 | 65 | 329 | 172 | 174 |
| 6-FM-80 | 12 | 80 | 329 | 172 | 221 |
| 6-FM-100 | 12 | 100 | 330 | 172 | 219 |
| 6-FM-150 | 12 | 150 | 484 | 170 | 241 |
| 6-FM-200 | 12 | 200 | 520 | 238 | 234 |



阀控式密封胶体蓄电池

Valve-controlled type sealed adhesive batteries

| 数据 Data 规格 Specifications | 参数 Parameter 额定电压 (V) Rated voltage | 10小时 率容量 C ₁₀ (Ah) 10 hour rate capacity | 外形尺寸 (mm) Dimension | | |
|------------------------------------|---|--|------------------------|------------|-------------|
| | | | 长 Length | 宽 Width | 高 Height |
| GFMJ-100 | 2 | 100 | 63 | 174 | 349 |
| GFJM-200 | 2 | 200 | 87 | 186 | 361 |
| GFMJ-300 | 2 | 300 | 119 | 186 | 361 |
| GFMJ-400 | 2 | 400 | 151 | 186 | 361 |
| GFMJ-500 | 2 | 500 | 183 | 186 | 361 |
| GFMJ-600 | 2 | 600 | 215 | 186 | 361 |
| GFMJ-800 | 2 | 800 | 289 | 186 | 361 |
| GFMJ-1000 | 2 | 1000 | 353 | 186 | 361 |
| GFMJ-1200 | 2 | 1200 | 480 | 174 | 349 |
| GFJ-1500 | 2 | 1500 | 268 | 369 | 363 |
| GFMJ-2000 | 2 | 2000 | 358 | 369 | 363 |
| GFMJ-3000 | 2 | 3000 | 520 | 369 | 363 |
| 6-FMJ-24 | 12 | 24 | 166 | 125 | 175 |
| 6-FMJ-38 | 12 | 38 | 197 | 165 | 170 |
| 6-FMJ-60 | 12 | 60 | 350 | 166 | 175 |
| 6-FMJ-65 | 12 | 65 | 329 | 172 | 174 |
| 6-FMJ-80 | 12 | 80 | 329 | 172 | 221 |
| 6-FMJ-100 | 12 | 100 | 330 | 172 | 219 |
| 6-FMJ-150 | 12 | 150 | 484 | 170 | 241 |
| 6-FMJ-200 | 12 | 200 | 520 | 238 | 234 |

风光储能用阀控式铅酸蓄电池

Valve-controlled type lead-acid batteries for wind & solar energy accumulation

| 数据 Data 规格 Specifications | 参数 Parameter 额定电压 (V) Rated voltage | 10小时率容量 C ₁₀ (Ah)(终止 电压1.8V/单格) 10 hour rate capacity (Termination voltage 1.8V sin- gle cell) | 外形尺寸 (mm) Dimension | | |
|------------------------------------|---|---|------------------------|------------|-------------|
| | | | 长 Length | 宽 Width | 高 Height |
| CNF-200/CNFJ-200 | 2 | 200 | 87 | 186 | 361 |
| CNF-300/CNFJ-300 | 2 | 300 | 119 | 186 | 361 |
| CNF-400/CNFJ-400 | 2 | 400 | 151 | 186 | 361 |
| CNF-500/CNFJ-500 | 2 | 500 | 183 | 186 | 361 |
| CNF-600/CNFJ-600 | 2 | 600 | 215 | 186 | 361 |
| CNF-800/CNFJ-800 | 2 | 800 | 289 | 186 | 361 |
| CNF-1000/CNFJ-1000 | 2 | 1000 | 353 | 186 | 361 |
| CNF-1200/CNFJ-1200 | 2 | 1200 | 480 | 174 | 349 |
| CNF-1500/CNFJ-1500 | 2 | 1500 | 268 | 369 | 363 |
| CNF-0200/CNFJ-2000 | 2 | 2000 | 358 | 369 | 363 |
| CNF-3000/CNFJ-3000 | 2 | 3000 | 520 | 369 | 363 |
| 6-CNF-24/6-CNFJ-24 | 12 | 24 | 166 | 125 | 175 |
| 6-CNF-38/6-CNFJ-38 | 12 | 38 | 197 | 165 | 170 |
| 6-CNF-60/6-CNFJ-60 | 12 | 60 | 350 | 166 | 175 |
| 6-CNF-65/6-CNFJ-65 | 12 | 65 | 329 | 172 | 174 |
| 6-CNF-80/6-CNFJ-80 | 12 | 80 | 329 | 172 | 221 |
| 6-CNF-100/6-CNFJ-100 | 12 | 100 | 330 | 172 | 219 |
| 6-CNF-150/6-CNFJ-150 | 12 | 150 | 484 | 170 | 241 |
| 6-CNF-200/6-CNFJ-200 | 12 | 200 | 520 | 238 | 234 |



地铁车辆用阀控式密封蓄电池

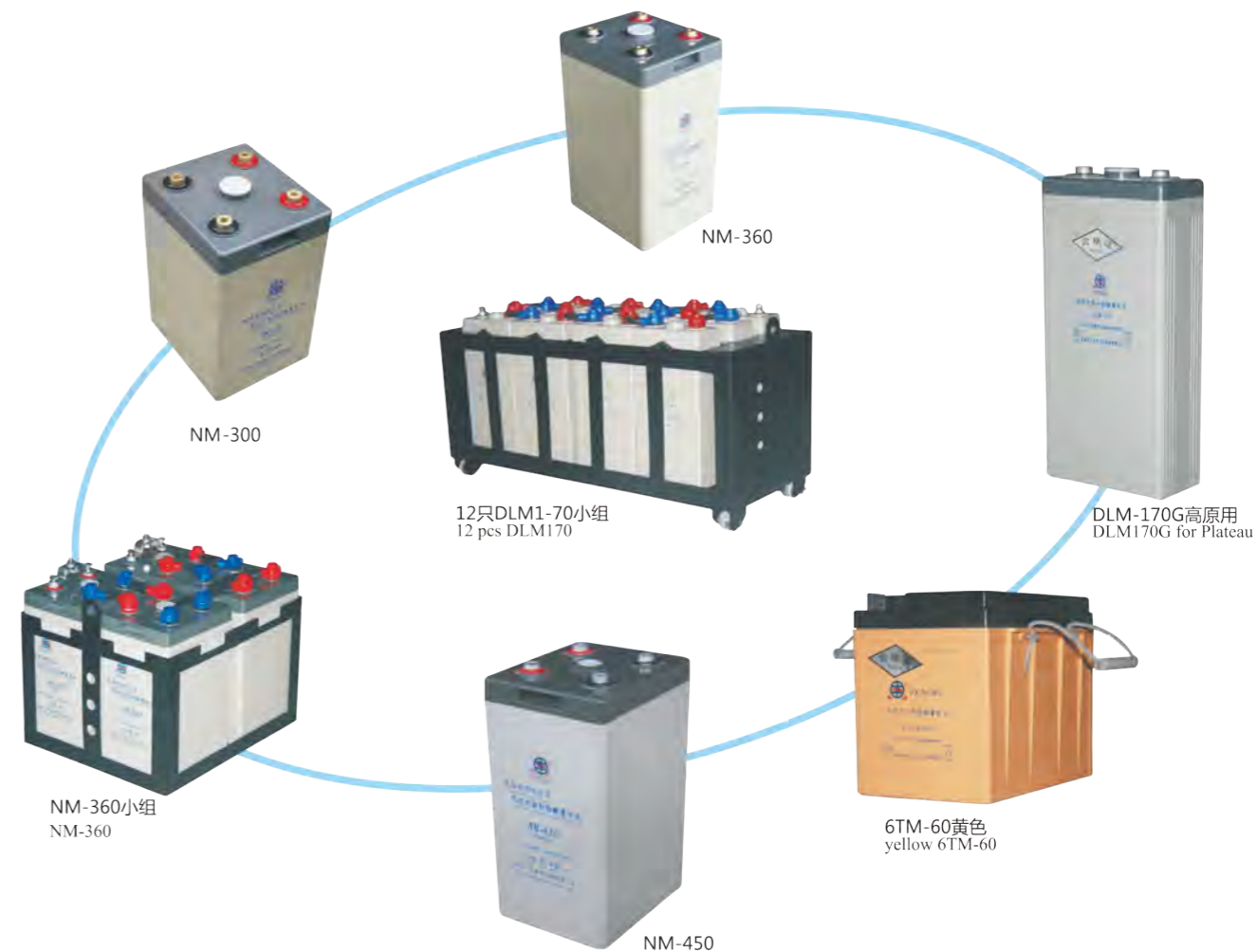
Valve-controlled type sealed batteries for subway train

| 数据 Data 规格 Specifications | 参数 Parameters | 额定电压 (V) Rated voltage | 5小时 率容量 C ₅ (Ah) 5 hour rate capacity | 外形尺寸 (mm) Dimension | | |
|------------------------------------|------------------|---------------------------------|---|------------------------|------------|-------------|
| | | | | 长 Length | 宽 Width | 高 Height |
| DTM-100-2 | | 2 | 100 | 68 | 172 | 313 |
| DTM-120-2 | | 2 | 120 | 99 | 152 | 331 |
| DTM-140-2 | | 2 | 140 | 111 | 152 | 331 |
| DTM-160-2 | | 2 | 160 | 123 | 152 | 331 |
| DTM-180-2 | | 2 | 180 | 135 | 152 | 331 |
| DTM-120-3 | | 2 | 120 | 99 | 152 | 331 |
| DTM-140-3 | | 2 | 140 | 111 | 152 | 331 |
| DTM-160-3 | | 2 | 160 | 123 | 152 | 331 |
| DTM-180-3 | | 2 | 180 | 135 | 152 | 331 |
| DTM-140-3W | | 2 | 140 | 93 | 160 | 444 |
| DTM-160-3W | | 2 | 160 | 93 | 160 | 444 |
| DTM-180-3W | | 2 | 180 | 93 | 160 | 484 |
| DTM-200-3W | | 2 | 200 | 93 | 160 | 529 |

铁路机车车辆用阀控式密封蓄电池

Valve-controlled type sealed batteries for railway locomotive

| 数据 Data 规格 Specifications | 参数 Parameters | 额定电压 (V) Rated voltage | 5小时 率容量 C ₅ (Ah) 5 hour rate capacity | 外形尺寸 (mm) Dimension | | |
|------------------------------------|------------------|---------------------------------|---|------------------------|------------|-------------|
| | | | | 长 Length | 宽 Width | 高 Height |
| DLM-170 | | 2 | 170 | 85 | 172 | 364 |
| DLM-200 | | 2 | 200 | 103 | 176 | 349 |
| DLM-220 | | 2 | 220 | 103 | 176 | 349 |
| DLM-240 | | 2 | 240 | 98 | 176 | 376 |
| TM-450 | | 2 | 450 | 220 | 176 | 360 |
| NM-450 | | 2 | 450 | 223 | 187 | 366 |
| NM-360 | | 2 | 360 | 185 | 158 | 366 |
| NM-270 | | 2 | 270 | 200 | 174 | 286 |
| NM-300 | | 2 | 300 | 200 | 174 | 286 |
| NM-300(B) | | 2 | 300 | 145 | 176 | 349 |
| NM-200 | | 2 | 200 | 87 | 186 | 364 |
| NM-200(B) | | 2 | 200 | 103 | 176 | 349 |
| NM-500 | | 2 | 500 | 223 | 187 | 366 |
| NM-500(E) | | 2 | 500 | 200 | 174 | 337 |
| NM-500(D) | | 2 | 500 | 200 | 174 | 337 |



阀控式密封管式胶体蓄电池

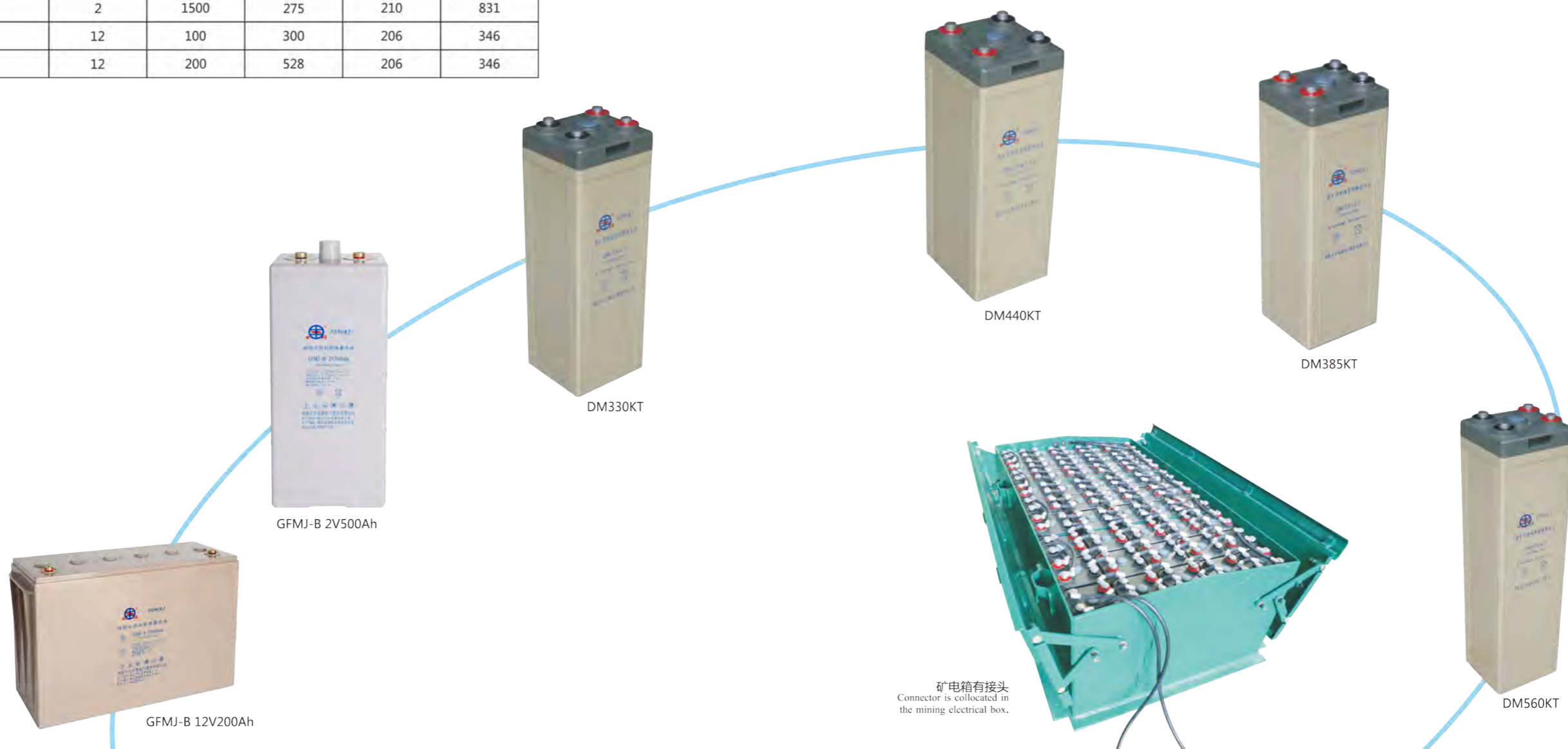
Valve-controlled type sealed tubular gel battery

| 数据 Data 规格 Specifications | 参数 Parameters | 额定电压 (V) Rated voltage | 10小时 率容量 C ₁₀ (Ah) 10 hour rate capacity | 外形尺寸 (mm) Dimension | | |
|------------------------------------|------------------|---------------------------------|--|------------------------|------------|-------------|
| | | | | 长 Length | 宽 Width | 高 Height |
| GFMJ-B 2V100Ah | | 2 | 100 | 103 | 206 | 390 |
| GFMJ-B 2V200Ah | | 2 | 200 | 103 | 206 | 390 |
| GFMJ-B 2V300Ah | | 2 | 300 | 145 | 206 | 390 |
| GFMJ-B 2V400Ah | | 2 | 400 | 145 | 206 | 506 |
| GFMJ-B 2V500Ah | | 2 | 500 | 166 | 206 | 506 |
| GFMJ-B 2V600Ah | | 2 | 600 | 145 | 206 | 681 |
| GFMJ-B 2V800Ah | | 2 | 800 | 191 | 210 | 681 |
| GFMJ-B 2V1000Ah | | 2 | 1000 | 233 | 210 | 681 |
| GFMJ-B 2V1500Ah | | 2 | 1500 | 275 | 210 | 831 |
| GFMJ-B 12V100 | | 12 | 100 | 300 | 206 | 346 |
| GFMJ-B 12V200 | | 12 | 200 | 528 | 206 | 346 |

矿用阀控式密封蓄电池

Valve-controlled type sealed batteries for mining industry

| 型号 Model | 额定容量 (AH) Nominal capacity | 额定电压 (V) Rated voltage | 最大外形尺寸 (mm) Dimension | | |
|-------------|-------------------------------------|---------------------------------|--------------------------|------------|-------------|
| | | | 长 Length | 宽 Width | 高 Height |
| DM330KT | 330 | 2 | 147 | 158 | 468 |
| DM385KT | 385 | 2 | 147 | 158 | 468 |
| DM440KT | 440 | 2 | 180 | 158 | 468 |
| DM560KT | 560 | 2 | 147 | 158 | 550 |



矿电箱有接头
Connector is collocated in
the mining electrical box.

电动道路车辆用阀控式密封蓄电池

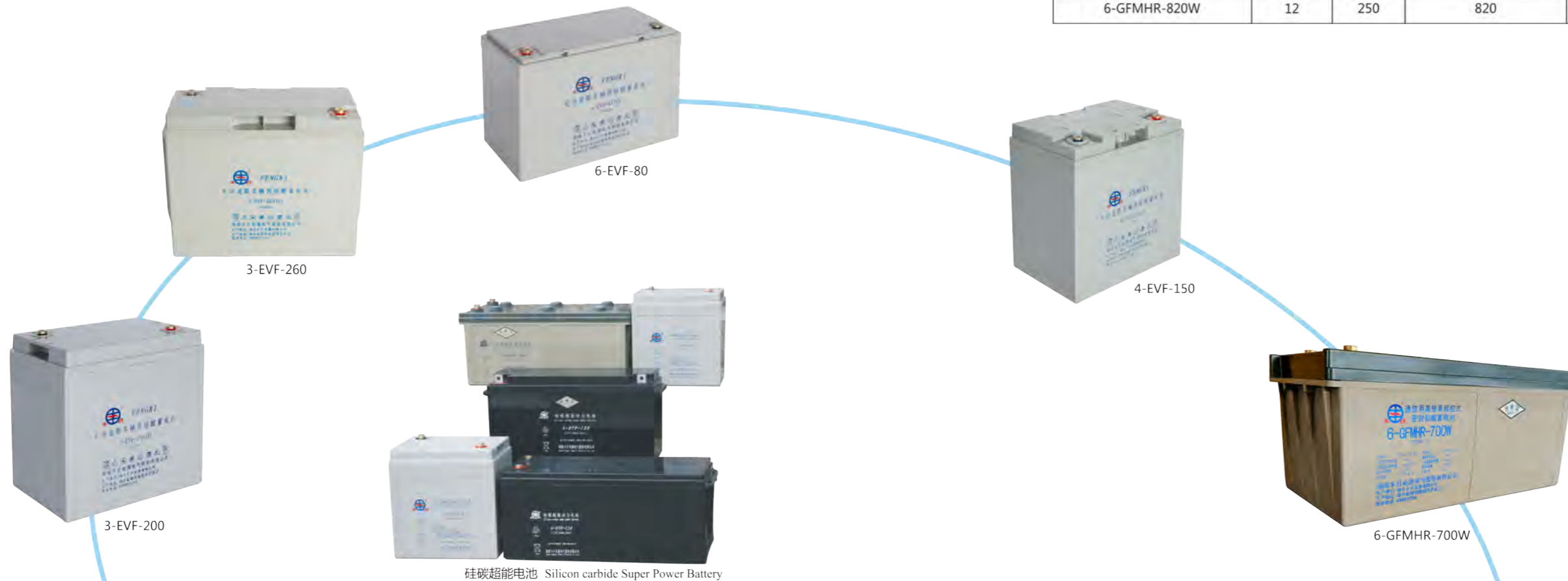
Valve-controlled type sealed batteries for electric vehicle

| 型号 Model | 额定电压 (V) Rated voltage | 额定容量 (AH) Nominal capacity | 外形尺寸 (mm) Dimension | | |
|--------------|------------------------------|----------------------------------|------------------------|------------|-------------|
| | | | 长 Length | 宽 Width | 高 Height |
| 3-EVF-180(I) | 6 | 180 | 260 | 180 | 275 |
| 3-EVF-200(I) | 6 | 200 | 260 | 180 | 275 |
| 3-EVF-220(I) | 6 | 220 | 260 | 180 | 275 |
| 3-EVF-260(I) | 6 | 260 | 357 | 180 | 270 |
| 4-EVF-150(I) | 8 | 150 | 260 | 180 | 280 |
| 6-EVF-75(I) | 12 | 75 | 260 | 168 | 213 |
| 6-EVF-80(I) | 12 | 80 | 306 | 168 | 211 |
| 6-EVF-100(I) | 12 | 100 | 331 | 176 | 220 |
| 6-EVF-120(I) | 12 | 120 | 406 | 170 | 238 |
| 6-EVF-150(I) | 12 | 150 | 481 | 170 | 240 |

高功率阀控式密封铅酸蓄电池

High-power valve-controlled type sealed lead-acid batteries

| 数据 Data 规格 Specifications | 参数 Parameters | 额定电压 (V) Rated voltage | 10小时 率容量 C ₁₀ (Ah) 10 hour rate capacity | 15分钟恒功率P ₁₅ (W) (终止电压1.67V/单格) Constant power for 15 minutes(Termination voltage 1.67V/ single cell) | 外形尺寸 (mm) Dimension | | |
|------------------------------------|------------------|------------------------------|--|---|------------------------|------------|-------------|
| | | | | | 长 Length | 宽 Width | 高 Height |
| GFMHR-500W | | 2 | 170 | 500 | 85 | 172 | 364 |
| GFMHR-750W | | 2 | 250 | 750 | 103 | 176 | 349 |
| GFMHR-1000W | | 2 | 340 | 1000 | 145 | 176 | 349 |
| GFMHR-1200W | | 2 | 410 | 1200 | 185 | 176 | 349 |
| GFMHR-1500W | | 2 | 510 | 1500 | 225 | 176 | 349 |
| GFMHR-2000W | | 2 | 680 | 2000 | 266 | 176 | 349 |
| 6-GFMHR-300W | | 12 | 80 | 300 | 306 | 168 | 214 |
| 6-GFMHR-440W | | 12 | 120 | 440 | 406 | 170 | 240 |
| 6-GFMHR-550W | | 12 | 150 | 550 | 484 | 170 | 242 |
| 6-GFMHR-600W | | 12 | 180 | 600 | 484 | 170 | 242 |
| 6-GFMHR-7000W | | 12 | 200 | 700 | 520 | 238 | 234 |
| 6-GFMHR-750W | | 12 | 220 | 750 | 520 | 238 | 234 |
| 6-GFMHR-820W | | 12 | 250 | 820 | 521 | 268 | 227 |



电池智能延寿管理系统

Intelligent Battery Life Extension Management System

产品特点 Product features

- 自动监测单体电池的内阻、电压和温度，电池组的端电压、充放电电流，数据采集快速准确。
- 具有基于蓄电池组电压、充放电曲线、温度的积分软件算法，计算电池组的SOC。
- 具有热失控、电压超限、温度超限、内阻超限等故障报警功能。
- 具有放电保护功能，避免出现过放现象。
- 主控器支持多种升级方式：云平台升级、现场USB升级。
- 多种通讯方式：4G、RS485、以太网，适配不同通讯场景。
- 通过上位机和云平台查询历史数据、报警数据、运行参数设置。
- 具有无线与有线两种方案，可满足用户的不同需求。
- 采样盒采用灌封工艺，高度集成化设计，超小体积，防护等级达到IP67，防爆阻燃。
- 及时发现电池运行故障，通过短信、APP推送、云平台弹窗报警立即上报。
- 对单体及整体电池的关键信息进行趋势预测，优化运维策略，降低运维成本。
- 对运维信息进行数据统计分析，提高整体运维管理水平。

* Automatic monitoring of internal resistance, voltage and temperature of battery cell, terminal voltage of battery pack, charge and discharge current, fast and accurate data collection.

* With integrated software algorithm based on battery voltage, charge-discharge curve, temperature, to calculate battery pack SOC.

* With fault alarm functions, such as thermal runaway, over voltage, over temperature, over internal resistance, e.g. .

* With discharge protection function, avoid over-discharge phenomenon.

* The master controller supports multiple upgrade modes: cloud platform upgrade and on-site USB upgrade.

* Multiple communications: 4G, RS485, Ethernet, suitable for different communication scenarios.

* Query historical data, alarm data and set operation parameter through upper computer and cloud platform.

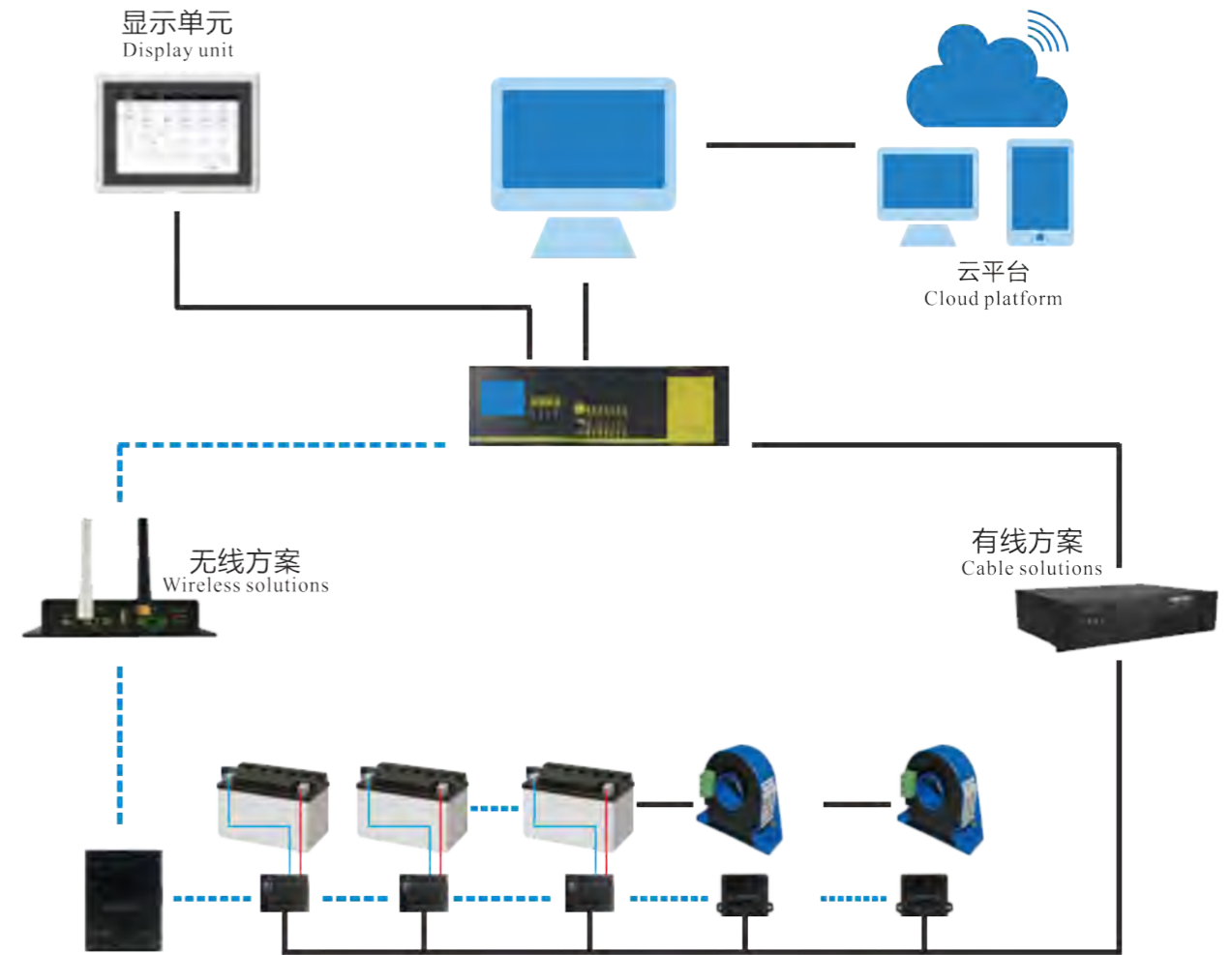
* With wireless and wired programs, can meet different needs of users.

* Sampling box adopts potting and sealing process, highly integrated design, ultra-small volume, IP67 protection rate, explosion-proof and flame-retarded.

* Timely find the battery operation fault, and immediately report it through SMS, APP, or cloud platform pop-up alarm.

* Make trend prediction of key information of cell and battery, optimize operation and maintenance strategy, and reduce operation and maintenance cost.

* Conduct statistical analysis of operation and maintenance information to improve the overall operation and maintenance management level.



主要技术参数 Main technical parameter

| | | | | | |
|--|-----------------|---|--------------|---|---|
| 数据存储内存 Data storage memory | 2G | 单体电压精度 Cell voltage accuracy | ±0.2% | 温度检测精度 Accuracy of temperature detection | ±1°C |
| 主控工作电压 Master operating voltage | DC 5V | 组电压测量精度 Group voltage measurement accuracy | ±0.3% | 通讯接口 Communication interface | RJ45、RS485、USB |
| 内阻测量精度 Internal resistance measurement accuracy | ±2% | 电流检测精度 Accuracy of current detection | ±0.5% | 查询方式 Query method | 现场查询、PC或手机查询、云平台查询 On-site query, PC or mobile phone query, and cloud platform query |
| 绝缘电阻 Insulation resistance | 500M 1500VDC | 工频耐压 Power frequency withstand voltage | 1500VAC | 工作环境温度 Operating ambient temperature | -20 °C ~ +55 °C |
| 相对湿度 Relative humidity | <95% | 主控器外形尺寸 Dimensions of Main control device | 145×125×35mm | 采样盒外形尺寸 Dimension of sampling box | 44.4×34.3×9.4mm |

GZG5系列微机监控高频开关直流电源柜

GZG5 Series-micro-computer Surveillance HF Switch DC Power Cabinet

产品特点 Product features

- 具有RS232/RS485智能化数据通信接口，多种通信协议可供选择，具有“四遥”功能，实现无人值守。
- 分散多级监控系统，实现监控系统的简单可靠。
- 采用大屏幕触摸屏式监控系统，人机界面友好，操作方便直观。
- 整流模块采用高频谐振软开关技术，低差自主均流，模块发生故障时自动退出，其它模块继续正常运行，可靠性高。
- 整流模块一体化接口，可带电插拔，维护方便快捷。
- 效率高，体积小，重量轻，噪声低，功率因数高，波纹系数小，稳压、稳流精度高。
- 自动完成对蓄电池的稳流充电、均衡充电、浮充电、并具有温度补偿功能，保证电池充满而不过充，延长电池使用寿命。
- 模块化结构，组屏简单，配置灵活、扩容方便。
- RS232/RS485 intelligent data communication interface is collocated; numerous communication agreements are available; it enjoys four remote control functions and thus realizes unattended operation.
- Multi-stage distributed surveillance system can realize simple and reliable operation.
- Large touch screen type surveillance system realizes a friendly human-machine interface and convenient and operation.
- The rectifying module adopts HF harmonic vibration soft switch technology and low-difference, independent and even flowing; the module exits by itself in case of any fault while other modules continue with normal operation, which enjoys a high degree of reliability.
- The integrated interface is collocated for the rectifying module to realize current carrying plugging and bring convenience to maintenance.
- High efficiency, small volume, light weight, low noise, high power factor, small corrugated factor and high current and voltage stabilization precision.
- Automatically fulfill stable-current charging, balanced charging and floating charging to the battery by itself, which enjoys temperature compensation function, prevents excess recharging and thus lengthens the use life of accumulator.
- Modularized structure, simple screen assembly, flexible with configuration, expansion of convenient



FDY6系列智能电网用数字化交直流一体化电源系统

Digital Dc Integrated Power Supply System For Fdy6 Series Intelligent Grid

产品特点 Product features



- 集成化：将站用交流电源、直流电源、逆变电源、通信电源统一设计、配置、管理和维护，全面整合。
- 网络化：各子系统智能设备通过通信网络接入一体化监控器，一体化监控器通过IEC61850接口，接入综自/调度系统。
- 智能化：在一体化监控器或远方管理系统可实时查看站用电源各子系统电量、开关量、事件信息，可修改系统参数、运行方式、遥控开关、对时，实现站用电源四遥。
- 更可靠：一体化设计，分布式实施，更注重故障隔离，更方便；一个位置可以浏览全部电源系统的运行状况。
- 是“建设统一坚强智能电网”和数字化变电站的基础设备和理想设备。

- Integration: The station AC power, DC power, inverter power and communication power are designed, collocated, managed and maintained in a unified manner and integrated in all respects.
- Networking: Every subsystem intelligent equipment is connected with the integrated monitor through communication network; the integrated monitor is connected with the integrated automatic/dispatching system through IEC 61850 interface.
- Intelligence: The integrated monitor or remote management system can search for the power volume, switch volume and event information of station power subsystem; revise the system parameters, operation model and remote control switch, synchronize the clock and realize four remote control functions of station power supply.
- Higher reliability: The integrated design and distributed execution focus on the fault isolation and bring much more convenience; the operator is able to browse the operation status of all the power supply systems in only position.
- It is deemed as a fundamental and ideal equipment to build up a unified, strong and intelligent grid and digitized substation.

DUM系列智能高频开关通信电源

DUM Series Intelligent Hf Switch Communication Power Supply

产品特点 Product features

- 低噪音设计，满足通信电源高质量要求。
- 模块化结构，输出电压-48V，输出电流10A~1000A，多种方案可供选择。
- 大屏幕液晶显示屏监控器，操控方便，功能齐全，性能可靠。
- 具有“遥测、遥信、遥控、遥调”功能。
- 功率因数达99%，效率达92%。
- 电磁兼容性好，符合信息产业部进网标准。
- 采用三级防雷，适用于恶劣环境。
- Low noise design, which can meet the high quality requirements of communication power supply.
- Modularized structure, an output voltage of -48V and output current of 10A—1000A, numerous plans available.
- Large-screen LCD monitor features convenient operation and control, complete functions and reliable properties.
- Telemetry, tele-signaling, remote control and tele-adjusting functions.
- 99% power factor; 92% efficiency.
- Favorable solenoid compatibility and meets the network access standard released by the Ministry of Information Industry.
- Three-level lightning-proof system to adapt to poor environment.



CM-KGCF40系列智能型充放电电源

CM-KGCF40 Series Intelligent Recharging/discharge Power Supply

产品特点 Product features



- 可实现静电、充电、放电、反充电等多种控制方式。
- 可设置脉宽/脉幅，实现脉冲充电。
- 具有恒流、恒压、恒压限流、恒流限压充电；恒流放电等多种工作方式。
- 具有定时间、电压等阶段转换方式，实现自动转换。
- 具有掉电存储功能，来电自动恢复到掉电前工作状态，实现无人值守。
- 具有过流、过压、过温、断流、欠压及设备故障的报警、显示功能。
- 可接蓄电池巡检仪，检测单体电池电压。（选配）
- 可采用工业触摸屏监控，实现脉冲充电、设备安时数、设置循环起始点、设置循环次数，与温度补偿（选配）。
- 可通过与PC机接口，实现多台电源的集中控制和数据处理，记录、存储、打印当前历史数据曲线。（选配）

- Multiple control models, such as static, recharging, discharge and reverse recharging models.
- Setting pulse width/amplitude to realize pulse recharging.
- Multiple operation models: constant current charging, constant voltage charging, constant voltage and limited current charging, constant current and limited voltage charging and constant current discharging.
- Fixed time and voltage transfer model to realize automatic transfer function.
- The storage function in case of power cutoff to finish the original status and realize unmanned shift.
- The alarm and display functions of over-current, over-voltage, excess temperature, current breaking, under-voltage and equipment fault.
- Can connect with the patrolling inspector of accumulator and inspect the voltage of monomer battery (optional).
- The industrial touch screen realize pulse recharging, equipment Ampere setup, circulation start point setup, circulation frequency setup and make temperature compensation (optional).
- Can be connected with PC computer, realize concentrated control and data processing of numerous power supplies, record, store and print the existing historical data curve (optional).

DUM₀₂系列240V/300V/336V/380V直流供电系统

(简称高压直流, 替代UPS)

DUM₀₂ Series 240V/300V/336V/380V DC Power Supply System

(Hereinafter referred to as high-voltage DC; it replaces UPS.)

产品特点 Product features

- 节能: 与UPS相比, 无逆变环节, 且模块具有休眠功能, 系统效率显著提高, 节约能源。
- 可靠性高: 高压直流电源环节少, 采用多模块并联直供, 使可靠性大大提高。
- 安全性好: 过载能力特强: 高压直流电源与蓄电池并联向负载供电, 供电可靠, 当出现大的过载负荷时, 即使模块满载输出, 还有蓄电池可提供很大的输出电流。
- 扩容方便简单: UPS扩容涉及到频率、电压、相序等问题, 扩容难度大。高压直流电源扩容时, 只有电压一项内容, 扩容变得简单方便。
- 维修方便: 高压直流电源模块可带电拔插, 当出现故障时只须更换故障模块这一简单工作。
- Energy saving: Compared with UPS, it does not have inverter procedure; the module enjoys rest function; the system can greatly upgrade the work efficiency and save energy.
- High reliability: High-voltage DC power procedures are reduced; numerous modules are connected in parallel and supplied directly to greatly upgrade the reliability.
- Favorable safety & Strong overload ability: High-voltage DC power supply and accumulator supply power to the load in a parallel manner and thus assure reliable power supply. In case of large overload, the accumulator is able to provide very large output current even though module outputs in full capacity.
- Convenient and simple expansion of capacity: UPS expansion involves frequency, voltage, phase sequence and other issues, making it difficult to expand the capacity. When expanding a high-voltage DC power supply Only one element is voltage, so expansion becomes easy and convenient.
- Convenient maintenance: High-voltage DC power module can be plugged with current; in case of any fault, only need to replaced the fault module.



KYN□-12系列智能型高压开关柜

KYN □—12 Series Intelligent High-voltage Switch Cabinet

产品特点 Product features

KYN44A-12(Z)、KYN28-12(Z)等系列智能型高压开关柜

- 具有母线温度在线检测, 断路器状态及温度检测, 电缆头温度检测等设备在线监测功能。
- 通过新一代微机保护与温度检测一体化保护装置使开关设备完全实现了智能化。
- 符合GB3906、IEC60496和DL402、404标准。
- 可广泛应用于智能数字化变电站、智能配电小区、智能楼宇及轻轨、地铁、石油、化工、钢铁、水泥等重要建设场所。

KYN44A-12(Z)、KYN28-12(Z) series intelligent high-voltage switch cabinet

- With busbar temperature online detection, circuit breaker status and temperature detection, cable head temperature detection and other equipment online monitoring functions.
- The new generation of micro-computer protection and temperature detection integrated protection device realize intelligent operation of switch equipment.
- Standards compliant GB3906, IEC60496, DL402 and 404
- Widely applied in important construction areas, such as intelligent digital substation, intelligent distribution community, intelligent building, light rail, subway, petroleum, chemical, iron & steel and cement industries.



SRM20-12/24系列智能型高压开关设备

SRM20-12/24 Series Intelligent High-voltage Switch Equipment

产品特点 Product features

- SRM20系列智能型高压开关设备以其固定式单元组合型与灵活扩展型的完美统一, 既适合网络节点或用户终端的要求, 又满足各种二次变电站对全绝缘全封闭紧凑型开关柜灵活使用的需要。
- SRM20系列智能型高压开关设备的开发遵循IEC60496标准, 在室内条件下(20°C)运行的设计寿命超过30年(IEC60496附录GG)。
- SRM20系列智能型高压开关设备完全适用于以下场合: 能源、石油、化工、采矿、冶金、紧凑型二次变电站、小型工厂、轻型采矿设备、隧道与地铁、酒店、购物中心、办公楼、商业中心等。
- 是“建设统一坚强智能电网”基础设备和理想设备。
- With its perfect unification of fixed unit combination type and flexible expansion type, SRM20 series intelligent high-voltage switchgear It is suitable for the requirements of network nodes or user terminals, and also meets the needs of various secondary substations for fully insulated and fully enclosed compact switchgear for flexible use.
- With intelligent high-voltage switch equipment is developed in accordance with IEC60496 standard; under the indoor conditions (20°C), the designed use life is above 30 years (IEC60496 appendix GG).
- Intelligent high-voltage switch equipment is able to adapt to the following conditions: energy, petroleum, chemical, mining, metallurgical, tight secondary substation, small-scale plant, light-duty mining equipment, tunnel, subway, hotel, shopping center, office building and commercial center.
- A fundamental and ideal equipment in building *unified and strong intelligent grid*.



SIVACON 8PT

SIVACON 8PT

产品特点 Product features

- 每台SIVACON 8PT开关设备全部采用优质的西门子开关电器, 保证其使用寿命长和运行可靠性高。
- 通过型式试验的低压配电装置安全可靠、灵活多样。
- 骨架和外壳尺寸精准、结构牢固; 它有二种结构型式, 即螺钉连接式或焊接式。柜顶装有释压装置。
- 灵活多变的水平母线系统满足不同的使用要求; 水平母线统一布置在开关柜的上方。
- 断路器技术结构紧凑、安全可靠。
- 固定安装式技术经济、安全、适应性好。
- 3级和4级水平母线系统, 其额定电流可至7400A。
- 额定峰值耐受电流可至375kA。
- 器件隔室的深度尺寸大, 适用于各种安装。
- 器件隔室可按模数结构分隔成不同的单元(符合IEC 60439-1规定的形式1至形式4)。
- 开关柜可单面安装, 也可背靠背安装。
- 进线可采用上进线或下进线。
- 出线电缆可在柜体前部连接或后部连接。

- Each SIVACON 8PT switchgear equipment is made of high-quality SIEMENS switch device to assure its long use life and reliable operation.
- The low-voltage distribution unit with eligible model test enjoys safety, reliability and flexibility.
- Accurate dimension of framework and shell and firm structure; it is possessed of two types of structures: screw connection structure or welding structure. Pressure release unit is collocated on top of the cabinet.
- Flexible horizontal busbar system can meet different usage requirements; the horizontal busbar is collocated above the switch cabinet.
- Circuit breaker technology is compact, safe and reliable.
- Fixed installation type technology is economical, safe and well adapted.
- Level 3 and 4 horizontal busbar system with rated current up to 7400A.
- Rated peak withstand current can be up to 375kA.
- Large depth dimensions of the device compartment for various installations.
- Device compartment can be separated into different units according to modal structure (form 1 to form 4 according to IEC 60439-1).
- Switchgear can be installed on one side or back-to-back.
- ∧- The incoming cables can be either top incoming or bottom incoming.
- Outgoing cables can be connected at the front of the cabinet or at the rear.



GGD、GCK、GCS、MNS-g系列低压智能配电柜

GGD, GCK, GCS, MNS-g Series Low-voltage Intelligent Distribution Cabinet

产品特点 Product features

- 具有GGD、GCK、GCS、MNS-g等多种规格低压配电柜。
 - 可广泛用于电厂、电站、广场、剧院、工矿企业等用电密集区及智能小区的受、馈电及动力控制和无功补偿。
 - 根据用户需要，可选用国内、国际新型电器元器件。
 - 增加微机监控系统及相应的智能化元件及软件可完全实现各种智能化功能，从而满足了许多高端用户的低压智能化要求。
- GGD, GCK, GCS, MNS-g low-voltage distribution cabinets are available.
- Widely applied in power plant, plaza, theatre and industrial and mining enterprise with high power consumption; power receiving and feeding, dynamic control and reactive compensation in the intelligent communities.
 - According to the needs of users, new domestic and international electrical components can be used.
 - Adding microcomputer monitoring system and corresponding intelligent components and software can fully realize various intelligent functions, thus meeting the low-voltage intelligent requirements of many high-end users.



XBZ1-12/24系列箱变电站

XBZ1-12/24 Series Box Substation

产品特点 Product features

- 具有微机监控系统，DTU变压器终端系统可完全实现智能化。
 - 配备IEC61850转换规约，可完全与配电自动化系统通讯实现“三遥”功能。
 - 外壳形式多样，金属外壳有不锈钢、铝合金、冷轧板、彩钢板；非金属壳体有玻纤水泥外壳和复合板外壳。
 - 结构独特，有通用型、紧凑型、目字型、品字型等多种结构，用户可任意选择。
 - 是“建设统一坚强智能电网”理想的设备。
- The micro-computer monitor system and DTU transformer terminal system are collocated to realize intelligent functions in all respects.
- IEC 61850 transfer convention is collocated to realize “three remote control” functions in the communication with automatic distribution system.
 - Shell in various forms, metal shells are stainless steel, aluminum alloy, cold-rolled plate, color steel plate; non-metal shells are Glass fiber cement shell and composite plate shell. The non-metallic shell is made of glass fiber cement shell and composite plate shell.
 - Unique structure. It enjoys general, tight, “目”-shaped and pyramid structure for selection at disposal.
 - An ideal equipment in building *unified, strong and intelligent grid*.



DPF系列电源列柜

DPF Series Power Cabinet

产品特点 Product features

- 电源列柜可配置电流监测与告警装置，该装置能提供智能通信接口及相应管理软件，以便于机房集中监控管理。
 - 可实现“三遥”，即遥测、遥信、遥控。
 - 电源列柜能对每个回路的总输入电流、电压、故障以及每个输出分路开关状态以及电力质量情况（可选）进行监测，并以形象直观方式（如LCD、LED等）集中显示，刷新频率不低于1次/s。
 - 平均无故障工作时间（MTBF）不小于100000h。
 - 列头柜可正面操作或两面操作，上下均可进出线，可以选择带母线室或不带母线室。母线室可以安装出线端子。
- The current monitor and alarm unit is collocated for the power cabinet which can provide intelligent communication interface and management software and thus execute concentrated monitor and management in the computer room.
- It can realize “three remote”, i.e. telemetry, telematics and remote control.
 - The power supply cabinet can monitor the total input current, voltage, fault, and switching status of each output tap as well as the power quality of each circuit (optional). Monitor and display centrally in an intuitive way (e.g. LCD, LED, etc.) with a refresh frequency of not less than 1 time/s.
 - MTBF is not less than 100000h.
 - The cabinet can be operated in the front or at both sides; wires can enter/exit from the upper or lower part; the room with or without busbar is available. The wire outlet terminal is installed in the busbar room.



配电箱

Distribution Box

产品特点 Product features

- 合理的分配电能。
 - 方便对电路的开合操作。
 - 有较高的安全防护等级，能直观的显示电路的导通状态。
 - 可实现“三遥”，即遥测、遥信、遥控。
- 配电箱的产品有：
- XM系列配电箱。
 - PZ30系列户内照明箱。
 - 各种户外配电箱。
 - 不同用户的定制产品：如通信集团用的DPJX系列配电箱等。



- Reasonable distribution of power energy.
 - Convenient switch-on/off of the circuit.
 - It has a high level of safety protection and can visually display the on-state of the circuit.
 - It can realize “three remote”, i.e. telemetry, telematics and remote control.
- The products of distribution box include:
- XM series distribution box.
 - PZ30 series indoor lighting box.
 - Various outdoor distribution boxes.
 - Customized products of different users: such as DPJX series distribution box for Communication Group.

UPS



产品特点 Product Features

- 并机可共用电池组;
- 负载适应性强,负载功率因数0.8超前至0.7滞后不降额同等功率下带载能力提升10%,降低投入成本;
- 模块化结构设计:模块可在线热插拔、实现快速运维;
- 双变换模式下最高效率近达97%,
- 电池连续可调:可快速去除故障电池,易于维护;
- 大屏幕液晶触摸显示,图形化显示,人机互动;
- 可LCD屏设置电池容量、充电电流,实现充电模式的自动平滑切换;
- 全正面维护,可上下进线;
- 自带脚轮,方便移动、定位;
- 前面配置防尘网,方便更换;
- 可实现蓄电池冷启动功能;
- 配置EPO紧急状态关机按键;
- 标配RS232、RS485、干接点、SNMP卡接口、同步控制器接口等。
- Parallel can share battery pack;
- Strong adaptability to negative cuts, load power factor 0.8 ahead to 0.7 hysteresis without derating 10% increase in load carrying capacity under the same power, reducing input costs;
- Modular structure design: modules can be hot-swapped online to achieve rapid operation and maintenance.
- The highest efficiency in double conversion mode is nearly 97%,
- Battery continuously adjustable: can quickly remove the faulty battery, easy to maintain;
- LCD touch screen display, graphic display, human-machine interaction;
- LCD screen can set the battery capacity, charging current, to achieve automatic smooth switching of charging mode;
- Full frontal maintenance, can be up and down into the line;
- With casters, easy to move and position;
- The front configuration of the dust net, easy to replace;
- The cold start function of the battery can be realized;
- Equipped with EPO emergency shutdown button;
- RS232, RS485, dry contact, SNMP card interface, synchronous controller interface, etc.

EPS



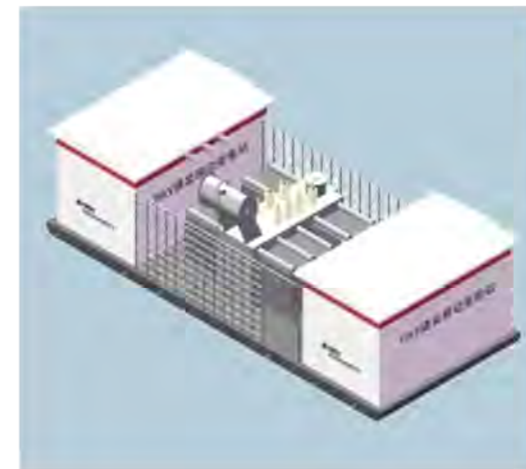
产品特点 Product Features

- 采用集中模式、无需特殊灯具;
- 32位DSP双CPU控制,运算更快,性能更可靠;
- 采用进口IGBT、IPM功率器件组装,性能更可靠;
- 双路电源自动切换,可靠性高;
- 寿命长,主机寿命20年以上;
- 采用CPU控制,保证各动作点准确;
- LED显示和声光告警,工作状态一目了然;
- 具有过流、短路、过载、过温、过欠压、缺相等多种保护功能;
- 故障在线自复位功能;
- 智能电池充电管理功能,可实现均浮充自动转换、有效延长电池寿命;
- 自动监控电池工作状态,具有电池速放自动保护;
- 具有消防联动功能,可通过RS232接口,可实现远程监控;
- 模块化结构设计维护方便。

- Centralized mode, no special lamps required.
- 32-bit DSP dual CPU control, faster computing and more reliable performance.
- Using imported IGBT, IPM power device assembly, more reliable performance.
- Automatic switching of dual power supplies, high reliability.
- Long life, the host life of more than 20 years.
- Adopting CPU control to ensure the accuracy of each action point.
- LED display and sound and light alarm, working status is clear at a glance.
- Multiple protection functions such as over-current, short-circuit, overload, over-temperature, over-undervoltage, shortage, etc.
- Fault online self-resetting function.
- Intelligent battery charging management function, which can realize the automatic conversion of even floating charge and effectively extend the battery life.
- Automatic monitoring of battery working status, with automatic protection of battery speed discharge.
- With fire linkage function, through RS232 interface, remote monitoring can be realized.
- Modular structure design for easy maintenance.

撬装式变电站

Skid-mounted Substation



产品特点 Product Features

- 适户外运行,外形美观,结构紧凑,占地面积小,自动化程度高,采用模块化组装式结构。
- 采用双层保温隔热结构,可以防火阻燃、防水、防晒、防腐、防尘、防潮,整体防护等级大于或等于Ip55,具有良好的隔绝电磁辐射及消音降噪功能。
- 具有暖通自动调控系统,采用一体式工业空调,可以远程启停、调节、状态监控及故障报警。
- 具有消防自动灭火及报警安全系统,设有安全通道紧急逃生装置,以确保设备和人身安全。
- 具有智能管理系统,全面对撬体内的暖通系统、照明系统、通风系统、消防及安防系统、电气监控系统等内部各种设备的运行状况以及装置内部运行环境和安全状况实时监控和智能管理,并将实时参数传至后台,实现无人值守,有人巡检。
- 撬体智能管理单元的控制单元硬件结构为模块化,具有扩展性。
- 可利用撬顶部空间建设光伏系统,实现建筑光伏一体化。
- Suitable for outdoor operation, beautiful appearance, compact structure, small footprint, high degree of automation, and modular assembly structure.
- Double-layer thermal insulation structure, which can be fire-retardant, water-proof, sun-proof, anti-corrosion, dust-proof and moisture-proof, and the overall protection level is greater than or equal to IP55, with good isolation of electromagnetic radiation and noise reduction function.
- With HVAC automatic control system, using an integrated industrial air conditioning, can be remotely started and stopped, regulated, status monitored and fault reported.
- With automatic fire extinguishing and alarm safety system, with a safety channel emergency escape device to ensure the safety of equipment and personal safety.
- With intelligent management system, the operation status of various internal equipments such as HVAC system, lighting system, ventilation system, fire fighting and security system, electrical monitoring system, as well as the internal operating environment and safety condition of the device are monitored and intelligently managed in real time, and the real-time parameters can be transmitted to the background to realize unattended and manned inspection.
- The modular hardware structure of the controller of the skid intelligent management unit with scalable.
- The space on top of the skid can be used to build a photovoltaic system to realize building photovoltaic integration.

地铁用锂电系统

Lithium Battery System For Metro

规格参数 Specification parameters

| | | |
|------------------------------------|----------------------|-------------------------|
| 电芯材料 Cell material | 钛酸锂 LTO | 固态铁锂 Solid lithium iron |
| 规格型号 Specification and model | 110V 168Ah | 110V 160Ah |
| 尺寸 (mm) Dimension (mm) | 1032*739*360 | 908*684*335 |
| 储存温度 (°C) Storage temperature (°C) | -20~+40 | -20~+45 |
| 工作温度 (°C) Working temperature (°C) | -40~60 | |
| 冷却方式 Cooling mode | 自然冷却 Natural cooling | |
| 充电电流 (A) Charging current (A) | 1-5C | 0.2-1C |
| 放电电流 (A) Discharge current (A) | 1-5C | 1-5C |
| 防护等级 IP rating | IP65 | |

产品特点 Product features

- 采用独特密封技术，密封可靠，安全性高
- 可选用固态锂电芯，具有更高的安全性，更长的使用寿命
- 采用阻燃壳体，强度高，耐冲击，抗震性能优异
- 每组电池配有电池管理系统，实现对电池系电压、电流、温度等精准控制
- 能量密度高，体积小，空间利用率高
- Adopt unique sealing technology, with reliable sealing and high safety
- Use solid lithium battery cell can be selected, which has higher safety and longer service life
- Flame retardant shell with good strength, impact resistance and excellent seismic performance
- Each pack is equipped with battery management system to achieve accurate control of battery voltage, current, temperature, etc
- High energy density, small volume and high space utilization rate



国铁用锂电系统

Lithium Battery System For National Railway

规格参数 Specification parameters

| | | |
|------------------------------------|----------------------|-------------------------|
| 电芯材料 Cell material | 钛酸锂 LTO | 固态铁锂 Solid lithium iron |
| 规格型号 Specification and model | 240V 250Ah | |
| 储存温度(°C) Storage temperature (°C) | -20~+40 | -20~+45 |
| 工作温度 (°C) Working temperature (°C) | -40~60 | |
| 冷却方式 Cooling mode | 自然冷却 Natural cooling | |
| 充电电流(A) Charging current (A) | 1-5C | 0.2-1C |
| 放电电流(A) Discharge current (A) | 1-5C | 1-5C |
| 防护等级 IP rating | IP65 | |

产品特点 Product features

- 采用独特密封技术，密封可靠，安全性高
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大型储能

Large Energy Storage

应用领域 Application

调峰、调频、削峰填谷、电网侧储能、用户侧储能、电源侧储能

Peak modulation, frequency modulation, peak load shifting, energy storage at power grid side, energy storage at user side and energy storage at power supply side

规格参数 Specification parameters

| | |
|------------------------------------|-------------------------|
| 电芯材料 Cell material | 固态铁锂 Solid lithium iron |
| 储存温度 (°C) Storage temperature (°C) | -20~45 |
| 工作温度 (°C) Working temperature (°C) | -40~60 |
| 冷却方式 Cooling mode | 自然冷却 Natural cooling |
| 充电电流 (A) Charging current (A) | 0.2-1C |
| 放电电流 (A) Discharge current (A) | 1-5C |
| 防护等级 IP rating | IP65 |

产品特点 Product features

- 可定制化设计，满足不同客户需求
- 模块化设计，安装维护更便捷
- 智能化温控系统，不受外部环境的影响
- 自动安防系统，七氯丙烷气体灭火，全浸没式，安全可靠
- Customized design to meet different customer needs
- Modular design, more convenient installation and maintenance
- Intelligent temperature control system, not affected by external environment
- Automatic security system, extinguishing fire with Heptachloropropane gas fire extinguishing, fully submerged, safe and reliable



家用储能

Household Energy Storage

应用领域 Application

用户侧储能、光充储一体化

Integration of user side energy storage and optical charging and storage

规格参数 Specification parameters

| | |
|--------------------------------|---|
| 电芯材料 Cell material | 磷酸铁锂 LFP |
| 规格型号 Specification and model | 48v 150Ah |
| 尺寸 (mm) Dimension (mm) | T214*W550*H621 |
| 最大工作电流 Maximum working current | 150A |
| 通讯方式 Communications | WIFI/ 4G |
| 并联数量 Number of parallels | 最多支持15并 up to 15 |
| 电量显示 Power display | LED灯/显示屏/蓝牙 LED light / display screen / Bluetooth |
| 认证 Certifications | IEC62619, UN38.3, MSDS, IEC62109 |

产品特点 Product features

- 纯正正弦波输出
- 优先光伏、电池或电网的可编程供电
- 用户可调节电池充电电流
- 可编程多种操作模式：并网、离网
- 内置定时器，用于各种开/关操作模式
- 支持USB、RS232、Modbus、SNMP、GPRS、WIFI等多种通讯方式
- Pure sine wave output
- Give priority to the programmable power supply from pv, battery or grid
- The battery charging current can be adjusted by the user
- Programmable multiple operation modes: on-grid/ off-grid
- Built in timer for various on / off operation modes
- Support USB, RS232, MODBUS, SNMP, GPRS, WIFI and other communication modes



户外电源

Portable Power Station

应用领域 Application

电视、投影仪等交流设备;无人机、露营灯等DC&USB设备;车载冰箱、车载电饭锅、车载净化器等车载设备。

TV, projector and other AC equipment; DC&USB equipment such as UAV and camping lamp; On-board refrigerator, on-board electric cooker, on-board purifier and other on-board equipment.

规格参数 Specification parameters

| | |
|----------------------------|--|
| 电芯材料 Cell material | LFP |
| 电池容量 Battery capacity | 155Wh/ 194Wh/ 222Wh/ 518Wh |
| 充电方式 Charging mode | 支持AC适配器及太阳能板 Support AC adapter and solar panel |
| 电量指示 Power indicator | LCD显示屏 LCD display |
| 放电温度 Discharge temperature | -10°C ~ +40°C |
| 充电温度 Charging temperature | 0 ~ +40°C |
| 循环次数 Cyclic life | > 500次 > 500 times |
| 质保 Warranty | 3年 3 years |
| 包装配件 Packaging accessories | AC适配器/车载充电器/DC转点烟器母座/说明书 AC adapter/car charger/dc to cigarette lighter base/manual |

产品特点 Product features

- 容量大, 电池寿命长, 符合室内及室外场景的使用需求
- 纯正弦波输出, 与市电相同的电流不会损坏电气设备
- 兼容性强, 多路输出可为各种用电器供电
- 安全性高, UL认证的电芯, 多重质检, 确保用电安全
- LED显示屏, 使用更便捷
- Large capacity, long battery life, meeting the use requirements of indoor and outdoor scenes
- Pure sine wave output, the same current as the mains power will not damage the electrical equipment
- High compatibility, multi-channel output can supply power for various electrical appliances
- High safety, UL certified cell, multiple quality inspection to ensure power safety
- Led display, use more conveniently



动力电池

Power Battery

应用领域 Application

低速车; 滑板车; AGV; 工程车等

Low speed vehicles; scooters; AGV; engineering vehicles, etc

规格参数 Specification parameters

| | |
|---|---------------------------------|
| 电池型号 Battery model | 12/24/36/48V 100/150/200/300 Ah |
| 电芯材料 Cell material | LFP/NCM |
| 循环次数 Cyclic life | ≥1000次 |
| 充放电电流 Charge & discharge current | 0.5-1C |
| 尺寸/外壳颜色/电压/容量可定制 Size / Housing color / voltage / capacity customizable | |

产品特点 Product features

- 绿色环保, 符合新能源需求
- 安全性高, UL认证的电芯, 多重质检, 确保用电安全
- 电池寿命长, 循环次数高达1000次
- Green and environmental protection, meeting the needs of new energy
- High safety, UL certified cell, multiple quality inspection to ensure power safety
- Long battery life, up to 1000 cycles



磷酸铁锂电池展示

Display Of Lithium Iron Phosphate Lithium Battery

- ⊙高温保护
- ⊙芯片保护
- ⊙过流保护
- ⊙漏电保护
- ⊙短路保护
- ⊙过充保护
- ⊙过放保护

- High temperature protection
- Chip protection
- Over current protection
- Leakage protection
- Short circuit protection
- Over charge protection
- Over discharge protection



磷酸铁锂电池
Lithium Iron Phosphate Lithium Battery

工商业储能

Industrial And Commercial Energy Storage

应用领域 Application

工商业大负荷应用场景，如医院、商场、数据中心等。
Industrial and commercial heavy load application scenarios, such as hospitals, shopping malls, data centers, etc.

规格参数 Specification parameters

| | |
|------------------------------|----------------------|
| 电芯材料 Cell material | LFP |
| 电池容量 Battery capacity | 4.8/9.6/19.2/38.4KWH |
| 充电温度 Charging temperature | 0~55℃ |
| 放电温度 Discharging temperature | -20~55℃ |
| 通信方式 Communications | CAN/RS485/RS232 |
| 防护等级 IP rating | IP20 |
| 认证 Certifications | CE/UN38.3 |
| 循环次数 Cyclic life | >2500 |

产品特点 Product features

- ⊙安全、可靠、寿命长
- ⊙标准化设计、模块化拼接
- ⊙充放电双路控制
- ⊙无间隙供电
- ⊙CAN/RS485/LAN/WIFI等多种通讯方式
- ⊙可视化数据显示
- ⊙柔性扩容，并机数量最高达20簇
- ⊙高效运维，远程智能升级维护
- ⊙ Safe, reliable and long life
- ⊙ Standardized design, modular splicing
- ⊙ Double-way control of charge and discharge
- ⊙ No-gap power supply
- ⊙ Multiple communications: CAN/RS485/LAN/WIFI
- ⊙ Visual data display
- ⊙ Flexible capacity expansion, the maximum number of parallel machines up to 20 clusters
- ⊙ Efficient operation and maintenance, remote intelligent upgrade and maintenance

锂代铅电池

Lithium Lead Batteries

应用领域 Application

家用储能、太阳能路灯、房车、电动轮椅等。
Household energy storage, solar street lamp, rv, electric wheelchair, etc.

规格参数 Specification parameters

| | |
|------------------------------|--------------|
| 电芯材料 Cell material | LFP |
| 电池容量 Battery capacity | 76.8-5120KWH |
| 充电温度 Charging temperature | 0~55℃ |
| 放电温度 Discharging temperature | -20~60℃ |
| 循环次数 Cyclic life | >2000 |
| 认证 Certifications | CE/UN38.3 |

产品特点 Product features

- ⊙环保：无铅，符合新能源环保要求
- ⊙重量轻：仅铅酸蓄电池30%的重量
- ⊙寿命长：2000次以上循环寿命，寿命长达10年
- ⊙高功率：可提供铅酸蓄电池2倍的功率输出
- ⊙温度范围：更宽的温度使用环境，低温放电优于铅酸蓄电池
- ⊙灵活性：模块化设计，可实现4个串联，多个并联
- ⊙ Environmental protection: lead-free, in line with new energy environmental protection requirements
- ⊙ Light weight: only 30% of the weight of lead-acid battery
- ⊙ Long life: More than 2,000 times of the cycle life, life up to 10 years
- ⊙ High power: can provide 2 times of lead acid battery power output
- ⊙ Temperature range: wider temperature environment, low temperature discharge is better than lead-acid battery
- ⊙ Flexibility: modular design, can realize 4 series, multiple parallel



工商业储能
Industrial And Commercial Energy Storage

锂代铅电池
Lithium Lead Batteries



丰日电车
Fengri Electric cars

电动老爷车，是专为旅游景区、公园、大型游乐场、楼盘、封闭小区、校园、花园式酒店、度假村、别墅区、城市步行街、机场、港口、码头等开发的环保型乘用车。

具有性能卓越、外观设计新颖、内饰豪华精致、乘坐舒适安全的特点，是理想的场内电动观光车。

The electric classic vehicle refers to an environment-friendly passenger vehicles designed for tourism site, park, large-scale recreational center, building, gated community, campus, park hotel, resort village, villa, urban walking street, airport, port and wharf.

Blessed with advantageous property, stylish appearance, luxury and delicate inner decoration and comfortable and safe taking, it is deemed as an ideal electric sightseeing vehicle on the site.

8座 枣红加金边C款
8 seats, C series of
jube red and gold edge

6座 丰收金A款
6 seats,
Harvest of Golden A model

12座 黑色加银边
12 seats, black and silver

8座 丰田白
8 seats, TOYOTA white

6座 玫瑰红A款
6 seats, Rose Red A



治安巡逻车
Security patrol car



治安巡逻车
Security patrol car



电动防爆车
Electric anti-explosion car



消防车
Fire engine



电动运货车
Electric freight car



高尔夫球车
Golf cart



观光车
Sightseeing car



14座 封闭观光车
14 seats, Closed sightseeing car



叉车
Forklift



12座 宝石蓝加银边
12 seats, sapphire blue
and silver edge



8座 玫瑰金A款
8 seats, Rose Golden A



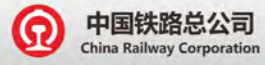
高空作业平台车
Aerial work platform vehicle



高空作业平台车
Aerial work platform vehicle



轨道交通系统 Rail transit system



地铁运营公司
Metro Operation Company

各地方铁路公司
Local railway company



中国中铁
China Railway Engineering Corporation

中国铁建
China Railway Construction



丰日系列产品在机务、车辆、电务上使用
Fengri series products are applied in the locomotive, vehicle and electric engineering.



丰日系列产品在北京 重庆 天津 武汉 长沙 合肥 杭州 石家庄等城市轨道交通上使用。
Fengri series products are used in rail transit in Beijing, Chongqing, Tianjin, Wuhan, Changsha, Hefei, Hangzhou, Shijiazhuang and other cities.



通信系统 Communication system



中国移动通信集团股份有限公司



中国电信股份有限公司



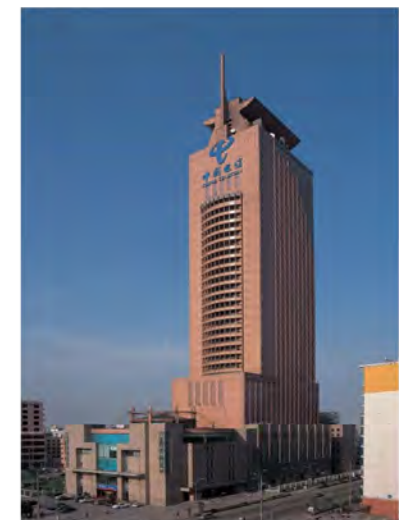
China unicom 中国联通
中国联通股份有限公司



CHINA TOWER
中国铁塔
中国铁塔股份有限公司



丰日蓄电池、列头柜、配电箱在中国电信、中国移动、中国联通、中国铁塔的使用。
Fengri accumulator is applied in China Telecom, China Mobile, China Unicom and China Tower.



电力系统 Power Supply System



丰日GZG5高频开关电源、蓄电池组在华阳电业漳州后石电厂7*660MW机组使用
Fengri GZG5 HF switch power and accumulator are applied in 7*660MW unit of Zhangzhou Houshi power plant of Huayang Power Industry.



丰日蓄电池在风光发电站的应用
Fengri accumulator is applied in Fengguang power plant.



丰日蓄电池组、GZG5高频开关电源在西北电网750KV变电工程使用
Fengri accumulator and GZG5 HF switch power are applied in 750kV power transformation project of Northwest Grid.



丰日蓄电池组、GZG5高频开关电源在湖南华电长沙发电有限公司2*600MW机组使用
Fengri accumulator and GZG5 HF switch power are applied in 2*600MW unit of Hu'nan Huadian (Changsha) Power Generation Co., Ltd.

水利系统 Water conservation system



丰日高、低压开关柜，智能型箱式变电站在葛州坝水利工程，长江三峡水利枢纽工程，小三峡水电站，朱岔峡水电站，广西水利水电工程，柬埔寨水利工程等水利工程上使用。
Fengri high and low voltage switchgear, intelligent box-type substations are used in Gezhouba Water Conservancy Project, Yangtze Three Gorges Water Conservancy Project, Small Three Gorges Hydropower Station, Zhuchaxia Hydropower Station, Guangxi Water Conservancy and Hydropower Project, Cambodia Water Conservancy Project and other water conservancy projects.



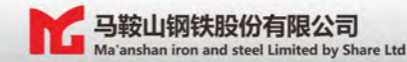
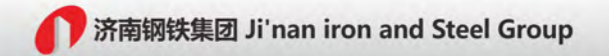
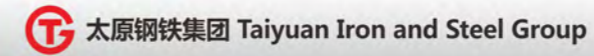
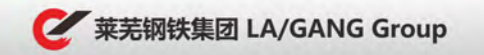
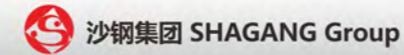
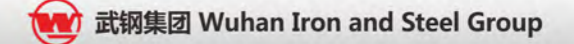
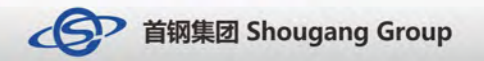
矿山系统 Coal Mine System



丰日蓄电池在矿山系统的使用
Fengri accumulator is applied in the coal mine system.



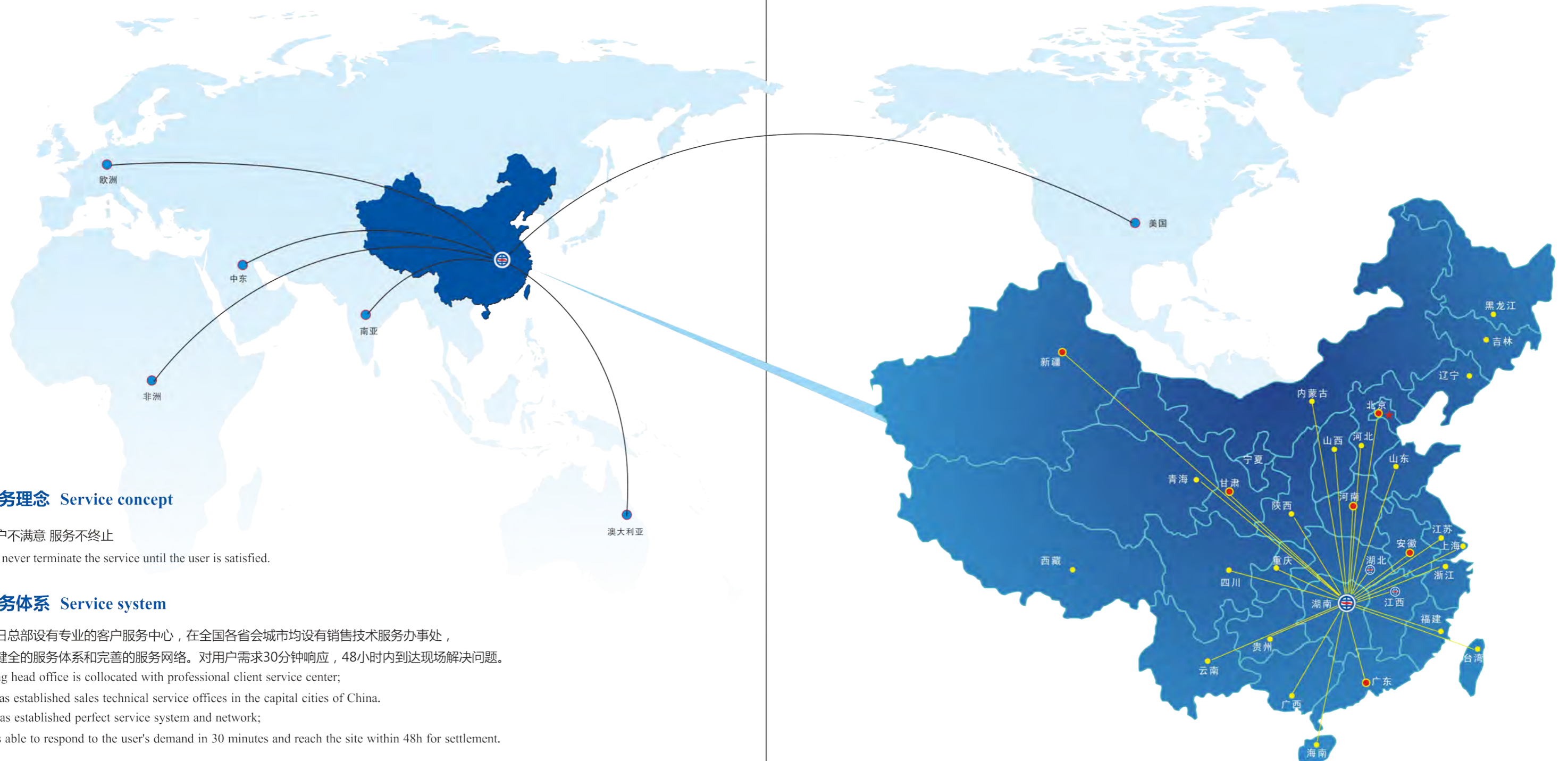
钢铁系统 Iron & Steel Making System



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丰日高、低压开关柜、智能型箱式变电站在钢铁公司使用
Fengri high/low-voltage switch cabinet and intelligent box substation are applied in the iron & steel making companies.



服务理念 Service concept

用户不满意 服务不终止
We never terminate the service until the user is satisfied.

服务体系 Service system

丰日总部设有专业的客户服务中心，在全国各省会城市均设有销售技术服务办事处，有健全的服务体系和完善的服务网络。对用户需求30分钟响应，48小时内到达现场解决问题。
Feng head office is collocated with professional client service center; it has established sales technical service offices in the capital cities of China. It has established perfect service system and network; it is able to respond to the user's demand in 30 minutes and reach the site within 48h for settlement.

联系方式 Contact

销售热线 Sale Hotline : 0731-83281189 / 83281231
销售传真 Sale Fax : 0731-83281152
全国免费服务电话 Free Line for Customer : 400-8877-348
公司总部服务专线 Service Hotline : 0731-83219796 / 83281178
服务传真 Service Fax : 0731-83219796
投诉专线 Complaint Line : 0731-83281102

湖南丰日电源电气股份有限公司 Hunan Fengri Power & Electric Co., Ltd.
联系方式 Contact : 0731-83281148

江西丰日福悦新能源有限公司 Jiangxi Fengri Fuyue New Energy Co., Ltd
联系方式 Contact : 177-0795-8830

江西丰日冶金科技有限公司 Jiangxi Fengri Metallurgical Technology Co., Ltd
联系方式 Contact : 0795-7309554

江西丰日电源有限公司 Jiangxi Fengri Power Co., Ltd.
联系方式 Contact : 0795-3608858

湖南丰日新能源科技有限公司 Hunan Fengri New Energy Technology Co., Ltd.
联系方式 Contact : 191-1886-9861

湖北丰日电源有限公司 Hubei Fengri Power Co., Ltd.
联系方式 Contact : 0715-3330268

丰日智能科技(湖北)有限公司 Fengri Intelligent Technology (Hubei) Co., Ltd
联系方式 Contact : 0715-3330268

展望未来 Looking forward to the future

美好未来 携手创造

A better future Hand in hand to create

以人为本，科技兴业
以技术创新为核心、以市场需求为导向
在修正中完美、在要点上超越
丰日一座座的丰碑已经创造
展望未来，又一个起点，新一轮朝阳
团结协力共铸辉煌，展望未来蓝图宏伟

Focus on people orientation technology thrive enterprise
Taking technological innovation as the core and market demand as the guide
Perfection in correction, surpassing in key points
Construction of Fengri landmark one by one
Look forward to the future and embrace a new starting point and a new day
Unite and work together to create brilliance, look forward to a grand blueprint for the future

