

湖南丰日 FENGRI ELECTRIC GROUP

产品宣传手册 PRODUCT BROCHURE

湖南丰日新能源科技有限公司
湖南丰日电源电气股份有限公司

SINCE

发展历程 DEVELOPMENT HISTORY

1982

1982 浏阳县丰田废旧金属冶炼厂成立
Established Fengtian scrap metal smelter in Liuyang County

1994 研发生产中国第一支阀控铅酸蓄电池
Developed and produced China's first valve-regulated lead-acid battery

1998 丰日电气集团股份有限公司成立
Established Fengri Electric Group Co., Ltd.

2008 湖南丰日电源电气股份有限公司成立
Established Hunan Fengri Power Electric Co., Ltd.

2009 湖北铅酸电池生产基地投产
Operated the production base of lithium batteries in Hubei



2012 江西蓄电池回收及生产基地投产
Operated the production base of battery recycling in Jiangxi

2013 湖北电源集成配套生产基地投产
Operated the production base of power & supply integration supporting in Hubei



2018 江西福悦电动车生产基地投产
Operated the production base of Fuyue electric vehicle lithium batteries in Jiangxi

2021 成立新能源子公司,锂电产品生产基地投产
Established a subsidiary of Hunan Fengri New Energy Technology Co. Ltd. & Operate the production base of lithium batteries.



湖北丰日电源有限公司
Hubei Fengri Power Co., Ltd.

集团简介

GROUP PROFILE

丰日电气集团创立于1982年，专注能源领域40年。
现有下属企业8家，专注于铅酸电池、锂电池、能源成套设备等产品研发生产。在中国多省份拥有生产基地近千亩，建筑面积数十万平方米，集团生产业务规模数十亿。

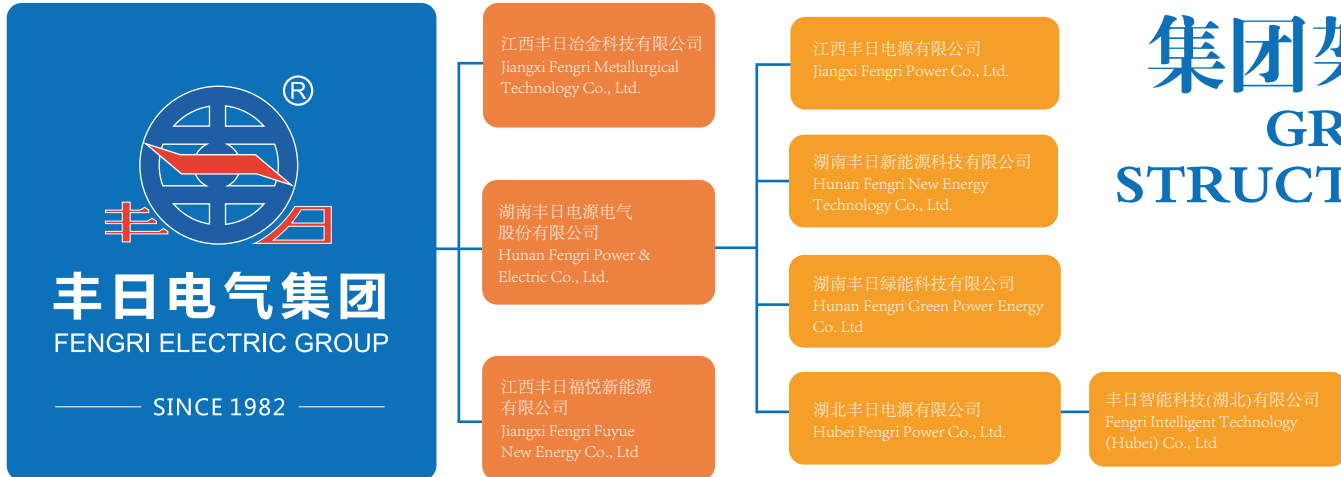
Fengri Electric Group was founded in 1982 and has been focusing on the energy field for 40 years. Currently, there are 8 subsidiary enterprises, focusing on the R&D and manufacturing of lead-acid batteries, lithium batteries, complete equipment related to energy, etc. Our group has production bases of nearly 1,000 mu in many provinces in China, construction area of hundreds of thousands of square meters, and billions of group production business scale.

集团产品广泛应用于通信、电力、汽车、轨道交通、工矿企业、石油化工、风光储能、部队、船舶、金融、水利、冶金等行业，并出口应用于亚洲、拉丁美洲、欧洲、澳洲、非洲等数十个国家和地区，拥有近百项专利技术，是德国西门子、日本东芝、加拿大庞巴迪、美国GE和美国FMD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。

Fengri's products mainly serve communication, electric power, automobile, rail transit, industrial and mining, petrochemical, wind-solar energy storage, milit, shipping, finance, water conservancy, metallurgy, etc. And they are exported to dozens of countries and regions, such as Asia, Latin America, Europe, Australia, and Africa. We have nearly 100 patented technologies, and has become a global supplier of many companies such as Siemens in Germany, Toshiba in Japan, Bombardier in Canada, GE and FMD in the United States. Based on stable quality, reasonable price and considerate service, Fengri has won unanimous praise and trust from users.

集团架构

GROUP STRUCTURE



工厂实景
Factory scene



湖南丰日电源电气股份有限公司
Hunan Fengri Power & Electric Co., Ltd.



湖南丰日新能源科技有限公司
Hunan Fengri New Energy Technology Co., Ltd.



- 尺寸更小，户用更方便
Smaller size, better for home use
- 模块设计，5 kWh/个
Module design, 5 KWH per module
- 并联模块高达15个，逆变器6个
Paralleling: 15 Batteries / 6 inverters
- LED显示实时状态
Displaying & controlling real-time status
- 支持多种通信：USB, RS232, Modbus, SNMP, GPRS & Wi-Fi
Multiple communication for USB, RS232, Modbus, SNMP, GPRS and WI-FI
- 逆变器输出功率高达5.5kW
Up to 5.5 KW output from inverter

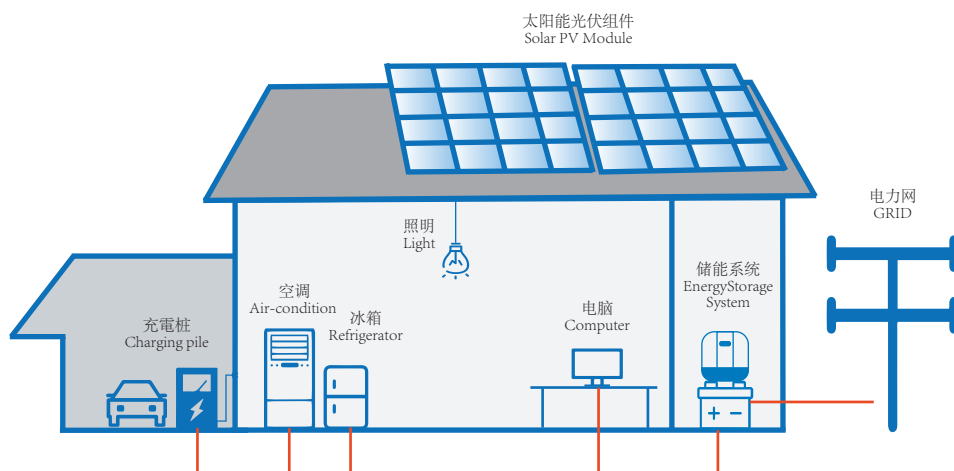
家用储能一体机系列 HOME ENERGY STORAGE ALL-IN-ONE SERIES



堆叠式一体机系列 STACKED ALL-IN-ONE SERIES



应用领域 Application



产品参数 product parameters

系统规格System specification	96V100Ah	144V100Ah	192V100Ah	240V100Ah
模组个数Number of battery modules	2	3	4	5
模组容量Module capacity	100Ah	100Ah	100Ah	100Ah
电压Voltage	96V	144V	192V	240V
系统能量System energy	9.6KWh	14.4KWh	19.2KWh	24KWh
光伏输入Photovoltaic input	6500W	6500W	6500W	6500W
输出功率Output power	5KW	10KW	15KW	20KW
尺寸Dimension(mm)	卧式Horizontal type:	520*520*734	520*520*906	520*520*1078
	立式Vertical type:	670*150*600	670*150*960	670*150*1320
				520*520*1250
				670*150*1680

锂离子电池

LITHIUM – ION BATTERY

- 户用式储能应用广泛
Wide Application in Residential Energy Storage System
- 电芯材料采用LFP，最安全的电芯材料之一
LiFePo4 battery, one of the safest battery materials

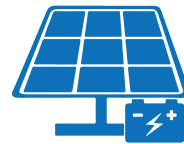
壁挂式储能系列
WALL-MOUNTED SERIES



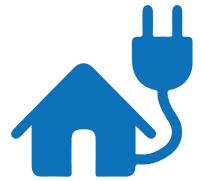
堆叠式储能系列
STACKABLE SERIES



应用领域 Application



储能系统
ENERGY STORAGE SYSTEM



家庭储能
HOME ENERGY STORAGE

壁挂式储能产品参数 [Wall mounted energy storage product parameters](#)

系统规格System specification	48V 50Ah	48V 100Ah	48V 200Ah	51.2V 100Ah	51.2V 150Ah	51.2V 200Ah
额定电压Nominal Voltage	48V	48V	48V	51.2V	51.2V	51.2V
容量Capacity	50Ah	100Ah	200Ah	100Ah	150Ah	200Ah
重量Weight	28kg	65kg	103kg	69kg	86kg	107kg
尺寸Dimension(mm)	450*300*175	580*450*210	580*760*210	600*420*175	700*500*175	650*580*230

堆叠式储能产品参数 [Stackble energy storage product parameters](#)

系统规格System specification	48V100Ah 51.2V100Ah	48V 200Ah 51.2V 200Ah	48V 300Ah 51.2V 300Ah	48V 400Ah 51.2V 400Ah
尺寸Dimension(mm)	596*381*227.8	596*381*416.8	596*381*605.8	596*381*794.8
重量Weight	45kg	90kg	135kg	180kg
最大工作电流 Max. operating current	100A	200A	300A	400A

机房储能系列
COMPUTER ROOM
ENERGY STORAGE SERIES

- 安全、可靠、长寿命
Safe, reliable and long-life
- 标准化设计,模块化拼接
Standardized design, modular splicing
- 充放电双路控制
Dual control of charge and discharge
- 无间隙供电
Gap-free power supply
- CAN/RS485/LAN接口
CAN/RS485/LAN interface
- 可视化, 触摸屏显示
Visualization, touch screen display
- 柔性扩容, 并机数量达20簇
Flexible capacity expansion, 20 parallel machines
- 高效运营与维护, 远程智能升级维护
Efficient O&M, remote intelligent upgrade



产品参数 Product parameter

系统规格System specification	48V 100Ah	192V 50Ah	192V 100Ah	384V 50Ah	384V 100Ah
电压范围Voltage range (V)	48~54V	162~219V	162~219V	324~438V	324~438V
额定电压Nominal Voltage	48V	192V	192V	384V	384V
容量Capacity	100Ah	50Ah	100Ah	50Ah	100Ah
重量Weight (kg)	45kg	110kg	180kg	200kg	350kg
尺寸Dimensions (mm)	470*442*177	600*600*1000	600*800*1400	600*600*1400	600*800*2000
最大输出功率Max. output power	4.8KW	13KW	28KW	26.8KW	46.1KW

应用领域 Application



工商业
INDUSTRY AND COMMERCE



工程建设
ENGINEERING CONSTRUCTION



数据中心
DATA CENTER



公共设施
PUBLIC FACILITIES



锂离子电池 LITHIUM - ION BATTERY

- 一体化集成，集成度高，便于设计、施工、调试及运维
Integration, high integration, easy to design, construction, commissioning and operation and maintenance
- 模块化构建，安装周期短，运行维护方便
Modular construction, short installation cycle, easy operation and maintenance
- 智能化监控，实时在线，智能化监测及预警，系统安全可靠
Intelligent monitoring, real-time online, intelligent monitoring and early warning, safe and reliable system
- 规格化扩展，扩展性强，可根据需求组合标准模块扩展不同容量产品
Standardized expansion, strong scalability, can be combined with standard modules to expand different capacity products according to demand

工商业储能系列 INDUSTRIAL AND COMMERCIAL ENERGY STORAGE SERIES



产品参数 Product parameter

系统规格System specification	FRNC-GLFP-229	FRNC-GLFP-258	FRNC-GLFP-316
总电量Total electricity	229KWh	258KWh	316.4KWh
输出功率Output power	100KW	100KW	100KW
尺寸Dimensions(mm)	1700*2300*1250	1300*1300*2100	6096*2438*2891
冷却方式Cooling mode	风冷Wind cooling	液冷Liquid cooling	液冷Liquid cooling

应用领域 Application



工商业
INDUSTRY AND COMMERCE



工程建设
ENGINEERING CONSTRUCTION



工业储能
INDUSTRIAL
ENERGY STORAGE



公共设施
PUBLIC FACILITIES



- 标准货箱尺寸，可远洋运输和公路运输
Standard container size, ocean transport and road transport available
- 坚固耐用用电设计，运输过程中保护货物；
Rugged and durable electric design, protect the goods during transportation;
- 免受天气、运输及其他环境的侵害。
Protection from weather, transportation and other factors.
- 可移动性设计，可移动性强，不受地域限制。
Mobility design, strong mobility and not subject to geographical restrictions.
- 灵活的基础设计，适用任何所需的选择。
Flexible base design for any desired option.
- 包括空调，光伏，风机，通道门，电力电缆接入等。
Including air conditioners, photovoltaics, fans, access doors, power cable access, etc.



兆瓦级大型集中储能系列

MEGAWATT LARGE-SCALE

CENTRALIZED ENERGY STORAGE SERIES

产品参数

Product parameter

系统规格System specification	FRCN-JLFP-2064	FRCN-JLFP-2752	FRCN-JLFP-3200	FRCN-JLFP-5017
系统方案System scheme	6*1P384S	8*1P384S	10*1P360S	14*1P400S
总电量Total electricity	2064KWh	2752KWh	3200KWh	5017.6KWh
输出功率Output power	1000KW	1500KW	1500KW	2500KW
尺寸Dimensions(mm)	5800*2300*2300 20尺标准集装箱 20-foot standard container	7620*2438*2896 25尺标准集装箱 25-foot standard container	7620*2438*2896 25尺标准集装箱 25-foot standard container	13716*3150*2438 45尺标准集装箱 45-foot standard container

应用领域

Application

发电设施
POWER GENERATION FACILITY

电网储能
POWER GRID ENERGY STORAGE

工业储能
INDUSTRIAL ENERGY STORAGE

公共设施
PUBLIC FACILITIES



锂离子电池

LITHIUM - ION BATTERY

- 户外活动，即插即用
Plug-and-Play like using a power bank
- 享受自然，享受电力
Enjoy Nature & Enjoy Power
- 家庭使用，紧急备用
For outdoor & home & emergency
- 可移动产品，可随身携带
Compact & mobile, can be carried to everywhere

户外便携式电源系列 PORTABLE POWER STATION SERIES



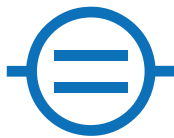
产品参数 Product parameter

系统类型 System type	铅酸电池 Lead-acid battery 6-FRCN-50/100	逆变器Inverter WN-500W/WN-1000W	T3600
容量Capacity	12V 50Ah/12V 100Ah	500W/1000W	3600Wh/18000Ah 3.7V
尺寸Dimensions(mm)	230*138*215/330*171*220	229*80*195/350*80*195	449*236*336
重量Weight	17.3kg/30.5kg	1.5kg/2.5kg	22kg

输出规格 Output specification

DC 输出DC Output	TYPE-C输出 TYPE - C Output: 60W USB-A: QC3.0 18W	TYPE-C输出 TYPE - C Output: 60W USB-A: QC3.0 18W	DC19V/5A: 7-8小时hour
AC 输出AC Output	230VAC $\pm$ 15V, 50 $\pm$ 0.5Hz	230VAC $\pm$ 15V, 50 $\pm$ 0.5Hz	额定功率Rated power 3200W 峰值功率Peak power 3200W

应用领域 Application



DC输出/DC Output
USB设备/户外照明/数码产品
USB Devices, Outdoor lighting, Digital products.



AC 输出/AC Output
车载设备/影音娱乐/户外运动
Car Appliances, Video Entertainment, Outdoors



- **磷酸铁锂电芯 LFP CELLS**
单体电芯比能量高 High energy ratio of a single cell
- **深循环寿命 Deep Cycle Times**
超2500次循环，是铅酸电池的两倍以上
More than 2500 cycles, more than twice that of lead-acid batteries
- **坚固耐用 Durable & Efficient**
内置防震垫，用于电池缓冲及隔震
Built-in anti-vibration pads for battery cushioning and vibration isolation
- **标准箱设计 Standard box design**
标准电池箱设计，可根据用户需求选择配置
Standard battery box design, configuration can be selected according to user needs
- **主动均衡 Active equalization**
BMS模块可实现电池系统自动维护
BMS module can realize automatic maintenance of battery system
- **良好的环境适应性 Good environmental adaptability**
满足IP67防护要求，确保电池内部安全
Meet IP67 protection requirements to ensure internal safety of the battery
- **客户订制 Accept customization**
可定制开发电池箱 Customized battery box and battery size

动力电池系列 POWER BATTERY SERIES



产品参数 Product parameter

系统规格 System specification	24V20Ah	36V40Ah	48V100Ah	60V150Ah	72V200Ah
电压 Voltage	24V	36V	48V	64V	76.8V
容量 Capacity	20Ah	40Ah	100Ah	165Ah	206Ah
重量 Weight	3.6kg	13kg	35kg	68kg	95kg
尺寸 Dimensions(mm)	165*105*154	444*108*148	482*424*176	370*560*220	395*700*230

订制服务 CUSTOMIZED SERVICES

- 电池尺寸定制
Battery Voltage Customization
- 电池容量定制
Battery Capacity Customization
- 电池倍率定制
Battery Rate Customization
- 电池尺寸定制
Battery Dimensions Customization
- 电池箱尺寸定制
Battery Case Customization
- 电池箱外壳定制
Color Customization

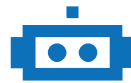
应用领域 Application



电动单车
ELECTRIC BICYCLE



观光车
SIGHTSEEING VEHICLE



智能机器人
AGV



滑板车
SCOOTER



工程车辆
ENGINEERING VEHICLE



- 无铅，符合新能源环保要求
lead-free, meet the new energy environmental protection requirements
- 仅铅酸蓄电池30%的重量
only 30% of the weight of lead-acid batteries
- 2000次以上循环寿命，寿命长达10年
>2,000 cycle life & up to 10 years
- 可提供铅酸蓄电池2倍的功率输出
2 times the power output of lead-acid batteries
- 温度使用环境 范围更广，低温放电优于铅酸蓄电池
wider temperature use environment & better low temperature discharge
- 模块化设计，可实现4个串联，多个并联
modular design, can achieve 4 in series & multiple in parallel

锂离子电池

LITHIUM - ION BATTERY

锂代铅电池系列 LITHIUM ALTERNATIVE LEAD BATTERY SERIES



产品参数 Product parameter

系统规格 System specification	LBR12-06	LBR12-10	LBR12-12	LBR12-18	LBR12-20	LBR12-36
容量Capacity	6Ah	10Ah	12Ah	18Ah	20Ah	36Ah
重量Weight	0.7kg	1.2kg	1.4kg	2.1kg	2.3kg	3.3kg
电压Voltage	12V	12V	12V	12V	12V	12V

系统规格 System specification	LBR12-50	LBR12-100	LBR12-150	LBR12-200	LBR12-200B
容量Capacity	50Ah	100Ah	150Ah	200Ah	200Ah
重量Weight	12.5kg	12.5kg	12.5kg	12.5kg	24.0kg
电压Voltage	12V	12V	12V	12V	12V

应用领域 Application



房车
RV



观光车
SIGHTSEEING VEHICLE



照明
LIGHTING



家庭储能
HOME ENERGY STORAGE



通信塔
COMMUNICATION



电力
ELECTRIC POWER



- 带凝胶的AGM电池
Gel battery with AGM separator
- 使用寿命长,环保,免维护
Long service life, environmental friendly, Maintenance-free
- 阻燃ABS外壳
Flame retardant ABS shell
- 优异的放电性能
Superior high-current discharge performance
- 良好的起步性能和爬坡能力
Strong starting and climbing performance

铅酸蓄电池

LEAD ACID BATTERY

动力电池系列 POWER BATTERY SERIES



产品参数 Product parameter

系统规格 System specification	容量Capacity(@3hr)	电压Voltage	重量Weight(kg)
3-FREV-180	180	6V	31.5
3-FREV-200	200	6V	32.5
3-FREV-220	220	6V	35.0
3-FREV-260	260	6V	43.0
4-FREV-150	150	8V	34.5
6-FREV-20.3	20.3	12V	60.1
6-FREV-24	24	12V	9.0
6-FREV-60	60	12V	19.5
6-FREV-75	75	12V	25.5
6-FREV-80	80	12V	30.5
6-FREV-100	100	12V	34.5
6-FREV-120	120	12V	40.5
6-FREV-150	150	12V	50.5

应用领域 Application



电动单车
ELECTRIC BICYCLE



观光车
SIGHTSEEING VEHICLE



智能运输机器人
AGV



滑板车
SCOOTER



- 管状板设计
Tubular plate design;
- 自放电率低
Low self-discharge rate
- 凝胶电解质，无洩漏
Gel electrolyte & No leakage
- 循环深，使用寿命长
Deep cycle, long service life
- 阻燃ABS外壳
Flame retardant ABS shell
- 良好的起步性能和爬坡能力
Strong starting and climbing performance
- 免维护和环保
Maintenance free, environmental friendly

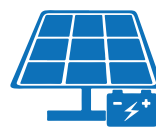


OPZV电池系列 OPZV BATTERY SERIES

产品参数 Product parameter

系统规格 System specification	容量Capacity(ah)	重量Weight(kg)	电压Voltage
6-OPZV-100	100	48.0	12V
6-OPZV-200	200	88.3	12V
OPZV-200	100	11.0	2V
OPZV-200	200	17.2	2V
OPZV-300	300	25.0	2V
OPZV-400	400	32.0	2V
OPZV-500	500	38.5	2V
OPZV-600	600	62.0	2V
OPZV-800	800	62.0	2V
OPZV-1000	1000	72.8	2V
OPZV-1500	1500	105.0	2V
OPZV-PB330	330	26.0	2V
OPZV-330	330	33.0	2V
OPZV-385	385	28.0	2V
OPZV-PB440	440	33.0	2V
OPZV-440	440	33.0	2V
OPZV-560	560	34.0	2V

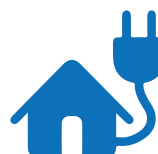
应用领域 Application



储能系统
ENERGY STORAGE SYSTEM



观光车
SIGHTSEEING VEHICLE



家庭储能
HOME ENERGY STORAGE



工程车辆
ENGINEERING VEHICLE



储能电池系列 ENERGY STORAGE BATTERY

铅酸蓄电池 LEAD ACID BATTERY



产品参数 Product parameter

电压Voltage (V)	容量Capacity (ah@10hr/20hr)	尺寸Dimensions(mm)			重量Weight(kg)	电池类型 Battery type	设计寿命 Design life
		长L	宽W	高H			
12V	7	151	65	100	2	AGM	>12年/12years
	9	151	65	100	2.35		
	12	151	98	101	3.25		
	17	181	77	167	4.8		
	18	181	77	167	5		
	24	165	126	181	7.6	AGM/GEL	
	33	201	131	170	10.1		
	38	196	172	170	11.9		
	55	227	138	210	16		
	65	330	172	185	19.9		
	70	260	168	214	21.2		
	100	329	172	221	29		
	120	409	177	234	34.5		
	150	484	170	241	43.6		
	200	522	239	221	59		
	250	520	269	225	70.5		
2V	100	174	63	349	7	AGM/GEL	>15年/15years
	150	172	85	363	12.5		
	200	186	87	364	12.6		
	250	119	186	364	16.8		
	300	186	119	364	18.2		
	400	186	151	361	23.3		
	500	186	183	361	28.5		
	600	186	215	361	34		
	700	266	176	349	35		
	800	186	298	361	45.5		
	1000	186	353	361	56.8		
	1200	480	174	349	78		
	1500	369	289	363	85.5		
	2000	369	358	363	115		
	3000	520	369	363	170.5		

- 凝胶电解质，无洩漏
Gel electrolyte & No leakage
- 使用寿命长
long service life
- 自放电率低
Low self-discharge rate
- 阻燃ABS外壳
Flame retardant ABS shell
- 免维护和环保
Maintenance free, environmental friendly
- 三年保修
3 year warranty

应用领域 Application





应用领域 Application



产品参数 Product parameter

电池系列 Battery series	系统规格 System specification	电压Voltage	容量Capacity (ah@10hr/20hr)	尺寸Dimensions(mm)			重量 Weight(kg)	设计寿命 Design life
				长L	宽W	高H		
前置端子电池系列 Front Terminal Battery Series	6-GFMZ-100	12	100	394	110	286	34.5	>15年/15years
	6-GFMZ-150	12	150	551	110	288	48.5	
高功率电池系列 High Power Battery Series	6-GFMHR-440W	12	120	406	170	240	35.0	
	6-GFMHR-550W	12	150	484	170	241	43.0	
	6-GFMHR-700W	12	200	520	238	234	62.0	
	6-GFMHR-820W	12	250	521	268	227	72.0	
	GFMHR-2000W	2	680	266	176	349	36.5	
大型电池系列 High type Battery	GFM-A2V1000	2	1000	191	210	681	65.0	>5年/5years
	GFM-A2V1500	2	1500	275	210	681	94.3	
	GFM-A2V2000	2	2000	399	210	807	126.5	
	GFM-A2V3000	2	3000	576	212	807	192.5	
矿用电池系列 Mine battery series	6-FM-200	12	200	520	238	245	68.0	
	4-DM-170	8	170	260	180	280	34.7	
	DM330KT(Pb)	2	330	147	158	468	26.0	
	DM330KT(Cu)	2	330	147	158	468	33.0	
	DM385KT	2	385	147	158	468	28.0	
	DM440KT(Pb)	2	440	180	158	468	33.0	
	DM440KT(Cu)	2	440	180	158	468	33.0	
	DM560KT(A)	2	560	147	158	550	34.0	
	DM800	2	800	353	186	379	63.0	



- # 铅酸蓄电池
- ## LEAD ACID BATTERY

The image displays a variety of FENGRI industrial batteries. The top row shows four large, white, rectangular batteries with yellow terminals, labeled DTM-120-3, DTM-160-3, DTM-20-3, and another DTM-20-3. The bottom row shows seven smaller, white, rectangular batteries with yellow terminals, labeled 0-TM-60, NM-360, NM-450, NM-200, DLN-240, DLN-170, and DLN-120. Each battery features the FENGRI logo and technical specifications. The background is a solid blue color.

电池系列 Battery series	系统规格 System specification	电压Voltage	容量Capacity (ah@10hr/20hr)	尺寸Dimensions(mm)			重量 Weight(kg)	设计寿命 Design life
				长L	宽W	高H		
铁路电池 Railway battery	6-TM-60	12	60	265	190	222	21.0	>15年/years
	6-TM-120	12	120	410	172	238	38.0	
	6-TM-200	12	200	520	240	240	73.0	
	TM-450	2	450	220	176	360	33.0	
	3-DLM-170	6	170	374	172	248	32.0	
	DLM-170	2	170	85	172	365	12.5	
	DLM-170(W)	2	170	85	172	365	12.5	
	DLM-200	2	200	85	172	365	13.5	
	DLM-220	2	220	103	176	349	15.0	
	DLM-240	2	240	98	176	376	16.5	
	NM-200	2	200	87	186	364	13.0	
	NM-200(B)	2	200	103	176	349	15.0	
	NM-270	2	270	200	174	286	23.5	
	NM-300	2	300	200	174	286	23.5	
	NM-300(B)	2	300	145	176	349	20.0	
	NM-360(28Ah)	2	360	200	174	337	29.0	
	NM-360(35Ah)	2	360	185	158	366	28.0	
	NM-400	2	400	200	174	337	29.0	
	NM-450	2	450	223	187	366	36.5	
	NM-450(GE)	2	450	220	176	360	33.0	
	NM-500	2	500	223	187	366	36.5	
	NM-500(A)	2	500	200	174	337	32.0	
	NM-500(D)	2	500	200	174	337	32.0	
	NM-500(E)	2	500	200	174	337	32.0	
地铁电池 Subway battery	DTM-100-3	2	100	68	172	313	9.0	>10年/10years
	DTM-120-3	2	120	99	152	331	10.5	
	DTM-140-3	2	140	111	152	331	12.0	
	DTM-140-3W	2	140	93	160	440	12.5	
	DTM-160-3	2	160	123	152	331	13.5	
	DTM-160-3W	2	160	93	160	440	13.5	
	DTM-180-3	2	180	135	152	331	15.0	
	DTM-180-3W	2	180	93	160	484	15.0	
	DTM-200-3	2	200	147	152	331	16.5	
	DTM-200-3W	2	200	93	160	529	16.0	
	DTM-220-3	2	220	159	152	350	18.0	
	DTM-240-3	2	240	171	152	350	19.5	
	DTM-260-2	2	260	183	152	350	20.9	
	DTM-280-2	2	280	195	152	350	22.3	
	DTM-300-2	2	300	207	152	350	23.7	
	DM400	2	400	83	198	687	29.0	

- **安全性高 High security**
在过充放电、短路、高低温、外力破坏等所有严格测试中都没有起火和没有爆炸发生
There was no fire and no explosion in all the rigorous tests of overcharge and discharge, short circuit, high and low temperature, external damage, etc
- **电池温度适应性强 Battery temperature adaptability**
-20℃时容量保持率在90%左右, -30℃时容量仍能保持75%左右;可应对不同地区环境需求和严苛的温度需求(温度范围可以-40~80℃)
At -20℃, the capacity retention rate is about 90%, and at -30℃, the capacity can still be maintained at about 75% : it can meet the environmental requirements of different regions and harsh temperature requirements (the temperature range can be -40 ~ 80℃).
- **循环寿命长 Long cycle life**
超过3000次, 是铅酸蓄电池的6倍
More than 3,000 times, six times more than lead-acid batteries
- **可快充 Quick-charge**
充电15分钟即可恢复80%电量
Charge for 15 minutes to recover 80% of the charge

钠离子电池

SODIUM-ION BATTERY



应用领域 Application



地铁
SUBWAY



火车轻轨
TRAIN



风力发电
WIND POWER
GENERATION



通信系统
COMMUNICATION
SYSTEM

产品参数 Product parameter

系统规格 System specification	18650E-1500	26700E-3500	71173204E-240
标准容量Standard capacity	1500mAh@0.2C	3500mAh@0.2C	240Ah@0.2C
典型容量Typical capacity	1550mAh@0.2C	3550mAh@0.2C	245Ah@0.2C
标准电压Standard voltage	3.10V	3.10V	3.10V
充电电压Charging voltage	4.10 ±0.05 V	4.10 ±0.05 V	4.00 ±0.05 V
放电截止电压 Discharge cut-off voltage	1.50 ±0.05 V	1.50 ±0.05 V	1.50 ±0.05 V
尺寸Dimension(mm)	D: 18.40±0.10 H: 65.30±0.10	D: 26.40±0.10 H: 71.00±0.10	L: 173.60±0.50 W: 71.25±0.50 H: 203.70±0.50
内阻internal resistance	≤20.00mΩ	≤20.00mΩ	≤0.50mΩ
能量密度Energy density	128.00Wh/Kg	135.00Wh/Kg	166.00Wh/Kg
重量Weight	37.00±0.50g	81.00±0.50g	4.50±0.50Kg



产品资质

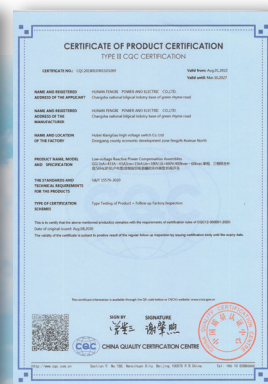
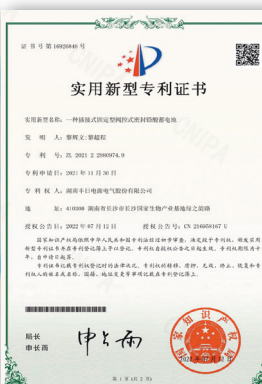
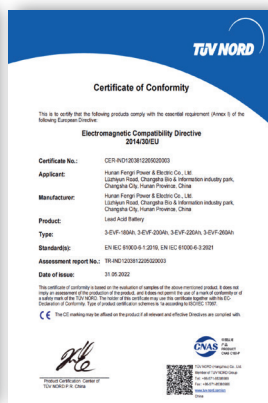
PRODUCT QUALIFICATION



三大体系认证证书

Certificates of three system

- 质量管理体系认证证书
QUALITY MANAGEMENT SYSTEM CERTIFICATE
- 职业健康安全管理体系认证证书
OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE
- 环境管理体系认证证书
ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE



矿用产品安全标志证书
MINE PRODUCT SAFETY MARK CERTIFICATE

CE证书
CE CERTIFICATE

3C认证证书
3C CERTIFICATE

UL证书
UL CERTIFICATE

UN证书
UN CERTIFICATE

MSDS证书
MSDS CERTIFICATE

金太阳认证证书
CGC-SOLAR CERTIFICATE

TLC泰尔认证证书
TLC CERTIFICATE

发明专利证书
PATENT CERTIFICATE FOR INVENTION

项目案例及交流展示

PROJECT CASE AND COMMUNICATION DISPLAY



阿根廷高速轨道工程 High-speed rail project in Argentina



中国移动北京信息港项目 China Mobile Beijing Information Port project



葛洲坝水利工程 Gezhouba water conservancy project



越南钢铁厂项目 Vietnam steel plant project



阿根廷国家电网工程 Argentina National grid engineering



宝钢越南工厂 Baosteel Vietnam factory



非洲肯尼亚电力系统工程 Kenya power system engineering in Africa



南非 Felicity 女士到访参观工厂
Afrique du Sud Mme Felicity visite l'usine



刚果金企业到访考察并签署合作协议
DRC enterprises visited and signed cooperation agreements



尼泊尔东方希望工厂 Nepal east hope factory



展会现场埃塞俄比亚客户代表交流
Ethiopian customer representatives communicate at the exhibition site



意大利电动车客户来厂指导
Italian electric car customers to factory guidance

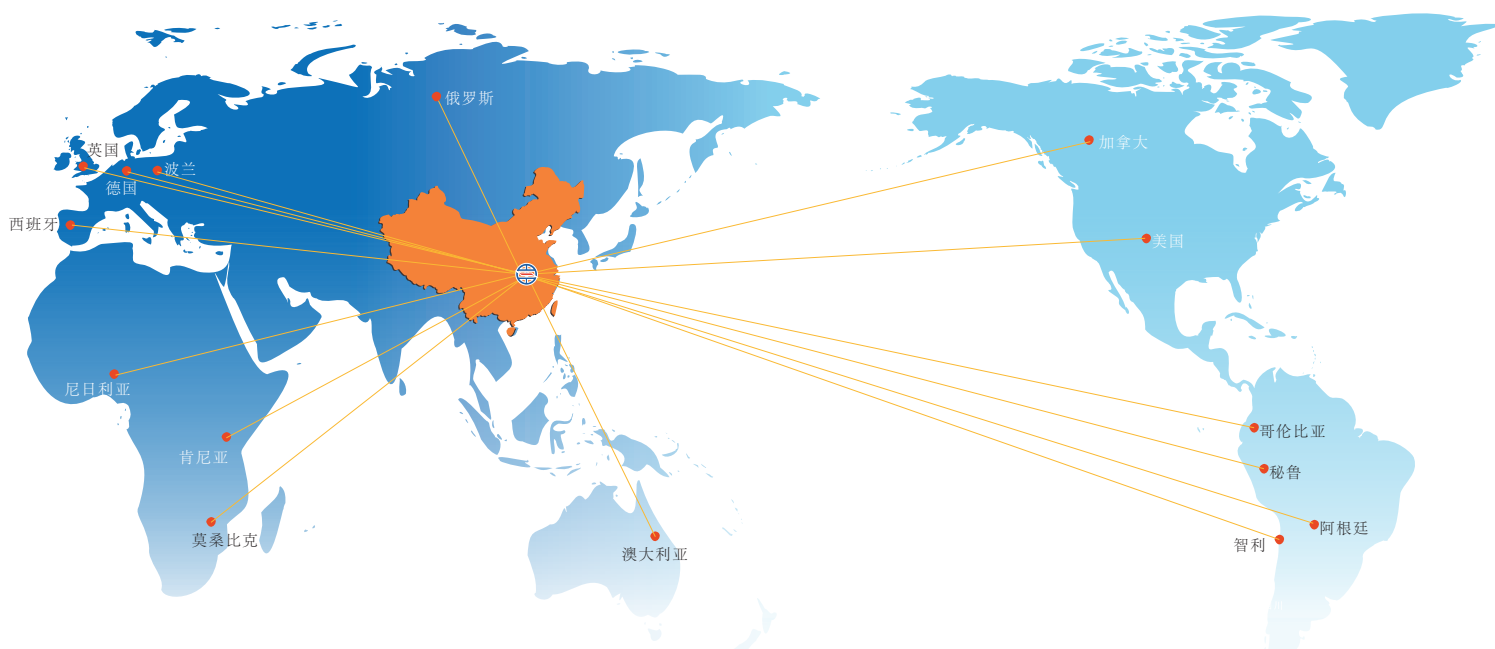
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丰日产品广泛应用于亚洲、拉美、欧洲、东南亚等数十个国家的电力、通信、铁路系统。是德国西门子、日本东芝、加拿大庞巴迪、美国GE和美国EMD等公司的全球供应商。

FENGRI'S PRODUCTS ARE USED IN POWER, COMMUNICATION AND RAILWAY SYSTEMS OF DOZENS OF COUNTRIES IN ASIA, LATIN AMERICA, EUROPE, AUSTRALIA AND AFRICA.

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