

LOTPOWER BOYUAN 乐珀尔®

EYASTA

英业达®
yingyeda

蓄电池产品手册

BATTERY PRODUCT MANUAL

一家专业研、产、销蓄电池的智造商

Professional manufacturer specializing in design, production and sale
service for longlife energy storage battery

英业达长寿命电池，为世界储存能量！

YINGYEDA LONGLIFE BATTERY, STORING ENERGY FOR THE WORLD



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Company address: Room#1505, Building #1, MinJieKechuang Center, Guangzhou Minying
high-technology Park, Guangzhou, Guangdong Province, China

Factory: Champion Industrial Park, Renhua County, Shaoguan City, Guangdong Province, China

广东英业达电子有限公司
Guangdong Eyasta Electronics co.,Ltd

Professional Research&Design,
Production, and Sale services
for Lead-acid storage battery

专业研、产、销蓄电池

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COMPANY INTRODUCTION

企业介绍



Guangdong Eyasta International Co., Ltd. was established in 2005, with its manufacturer headquarter located in Renhua County, Shaoguan City, Guangdong Province. We are a professional high-tech innovation enterprise specializing in the research, design, manufacturing, and sale services in longlife lead-acid battery technology. Our company mainly manufactures and sells batteries including OPzV lead-acid battery, colloidal lead-acid battery, lead-carbon battery, lithium phosphate battery, and other specialized battery used in photovoltaic energy storage systems.

Guangdong Eyasta International Co., Ltd. is recognized by Shaoguan City as a Lead-acid Battery Engineering&Technology Research Center for saving energy and friendly green environment. The company is equipped with a full range of advanced production lines, testing equipment, and automatic production lines. We continuously invest large amount of capital in our company development upgrading the automatic equipment so as to ensuring higher quality management.

Honors and Qualifications

Enterprise Strength

- The Chinese national standard drafting unit;
- The Chinese national standard drafting unit of the power remote capacity verification standard;
- It is the Guangdong Long-life Battery Engineering Technology Research Center recognized by the Guangdong Provincial Department of Science and Technology.
- It has successively obtained the certifications of ISO14001, ISO9001 and ISO45001, full range of fire protection certifications, CE certification, ROHS certification, MSDS, SGS factory entity certification, import and export customs declaration certificate. Its products have passed the TLC Taier certification for 2V 3000AH and below, Taier certification for 12V 250AH and below, Beijing JianHeng Golden Sun Energy Storage Certification, anti-vibration report against earthquake intensity of magnitude 8 and 9, 5A-level green factory certification, Type Test Report of China Southern Power Grid, certification of China Electric Power Research Institute and testing reports of multiple specifications by third parties.
- It has also obtained certificates for high-tech products and a number of invention patents, and has been rated as an enterprise abiding by contracts and valuing credit for seven consecutive years.



ISO 9001



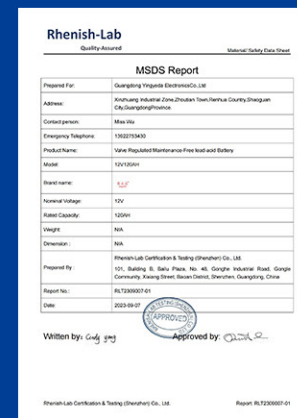
ISO 14001



ISO 45001



Brand Certification



MSDS Certification



Enterprise Credit Rating Certification



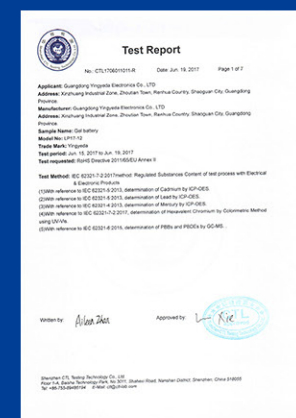
Environmental Care Certification



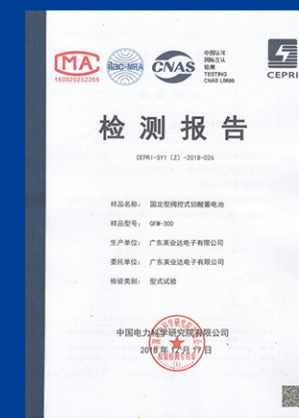
IPMS Certification



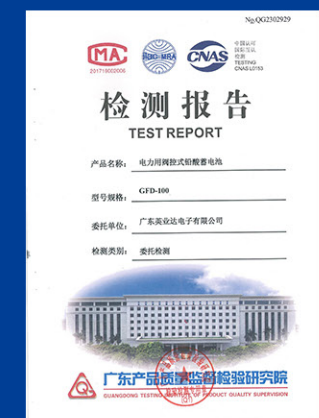
CE Certification



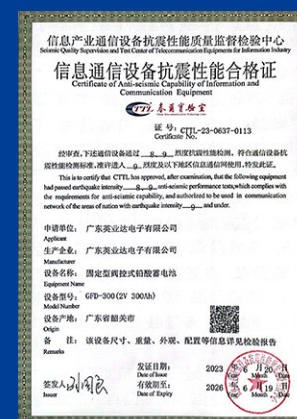
RoHS Certification



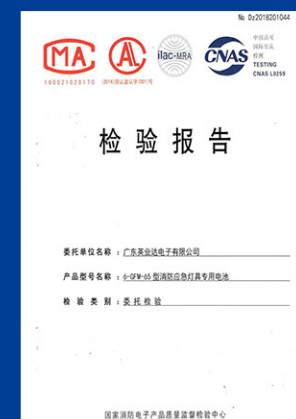
Test Report of The Institute of Electrical Science



Power Inspection Report



Anti-seismic Property Certification



Fire Report From Shenyang



GEL Battery TLC Certification



Lead Acid Battery TLC Certification

HISTORY DEVELOPMENT

发展历程

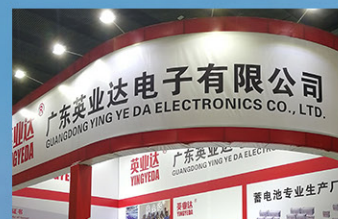
2005

Yingyeda Electronic Was
Founded in Guangzhou



2009

Expanding global market



2014

Shaoguan investment
expansion to add new
automation equipment



2018

Established the Battery
Engineering Center, Lead
carbon battery was successfully
developed



2017

Awarded the qualification
of high-tech enterprise, the
title of enterprise with three
management systems, and the
honor of enterprise abiding by
contracts and valuing credit

2020

Recognized by the Department
of Science and Technology of
Guangdong Province as:

- Guangdong Engineering Technology
Research Center for Long-life Batteries
- Successfully hosted the first seminar
on long-life lead-carbon batteries.



2019

- China Electrical Appliance Association
- An AAA Quality Credit Enterprise
- Top Ten Innovative Enterprises awarded
by Shaoguan Municipal Government



Up to now

Yingyeda has consistently
adhered to the production
philosophy of high quality
and high efficiency, and
has continuously enhanced
the stability and reliability
of its products. It strictly
controls every aspect of the
production process and has
established a development
framework in which high-
quality products and high-
end services operate in
parallel.



2021

- Successfully passed the
qualification review of China
Southern Power Grid
- Awarded the contract by China
Southern Power Grid
- Awarded the contract by State
Grid Corporation of China

R&D INNOVATION

研发与创新

Yingyeda has successfully established a cutting - edge storage battery R & D center in Shaoguan. Year after year, a massive amount of investment is channeled into this R & D hub, offering robust and unwavering support for both technological innovation and talent cultivation.

Guided by the core values of technology, R & D, innovation, and breakthrough, our R & D center constantly refines and optimizes its manufacturing processes. Through years of persistent efforts and development, Yingyeda has emerged as a vibrant and dynamic new force in the industry's R & D domain.

Relying on the strong backing of the Shaoguan Science and Technology Bureau, in 2018, we founded the Shaoguan Engineering Technology Research and Development Center for High - performance Advanced Lead - carbon Batteries, further solidifying our position as an industry pioneer in battery technology research and development.



Quality Control

Yingyeda R&D center has a professional quality control team and a complete quality management system. It conducts strict inspections at every stage, including the raw materials stage, the production process stage, and the product shipment stage, to ensure that the quality of each storage battery leaving the factory meets the standards.

Raw material inspection

Capacity discharge detection

impedance measurement

Large current discharge detection

leakage detection

Extreme temperature environment detection

Short-circuit detection

Vibration detection



Quality Control

Yingyeda is staffed with a product R & D team of high professional caliber. Equipped with industry - advanced laboratories and precision - grade testing equipment, this team is in charge of new product R & D and design, product performance testing, and product reliability testing.



Environmental protection

Obtained ISO 45001 and ISO 14001 certifications. It has introduced advanced environmental protection equipment, including an automatic dust - removal purification system, an exhaust gas desulfurization and de - lead system, and a modern sewage treatment system. Also, it arranges regular physical examinations for employees and provides production safety knowledge training.

PROCESS CHARACTERISTICS

工艺优势

The grids manufactured by Yingyeda exhibit remarkable toughness, excellent corrosion resistance, and high - level consistency. Batteries fabricated with these grids possess the merits of a substantial number of charge - discharge cycles, an extended service life, and are eminently suitable for high - amperage charging and discharging scenarios.



Automatic cast-welding

Good reliability and repeatability, automatic control ensures welding quality



Automatic through - wall welding

The stable welding has good repeatability; the setting range of welding parameters is wide.



Air-tight test

Automated testing equipment is used to ensure the safety of product use.



Automatic liquid filling

Precisely control product quality to guarantee the authenticity of battery capacity.



Automatic Drying

Real - time temperature monitoring to ensure product consistency and stability.



Automatic cleaning

Accurately control various cleaning parameters to meet higher - quality requirements.

Product Features

产品特性

1. Trough Formation Process（槽式化成工艺）：Ensures the battery achieves 100% of its rated capacity and optimizes cell equilibrium.

2. Dual Sealing Structure of Terminal Posts（极柱双重密封结构）：Enhances impact resistance and sealing performance, preventing electrolyte leakage and improving product reliability.

3. Anti-explosion and Acid-fog Filter Safety Valve（防爆滤酸片安全阀）：Features precise opening and closing pressure, anti-explosion, and acid-fog filtration capabilities. It vents excess gas during overcharging to prevent battery swelling and acid-fog leakage.

4. Ultra-pure Raw Materials and Special Electrolyte Formulation（超纯材料与特殊电解液配方）：Low internal resistance, high-rate discharge capability, and strong charge acceptance.

5. Advanced Process Technologies（先进工艺技术）：Adoption of advanced alloying, paste, electrolyte formulation, and epoxy sealing processes to ensure excellent product performance.



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Product Features

1. Housing Material (外壳材质) : Constructed with ABS, PP, and flame-retardant plastic for durability and aging resistance.

2. Extended Service Life (超长寿命设计) : Designed for a lifespan of 12-15 years.

3. Safety Valve with Improved Rubber Cap (改进的胶帽阀) : High precision of exhaust pressure and strong aging resistance.

4. Imported Sealing Adhesive (进口密封胶) : Strong adhesion, high corrosion resistance, and toughness.

5. Special Lead-tin Alloy Plates (特殊铅锡合金极板) : Low internal resistance and corrosion resistance, suitable for long-term float charging.

6. Silver-plated Copper Terminals (镀银铜端子) : Excellent electrical conductivity and aesthetic appearance.

7. Modified Ultra-fine Glass Fiber Separator (改良性超细玻璃纤维隔膜) : High purity, low internal resistance, high porosity, and gas recombination rate up to 99%.

8. Superior Low-temperature Performance (低温性能卓越) : Excellent consistency and stability.

9. Multi-directional Installation Capability (三维方向安装能力): Unique technical treatment ensures voltage equilibrium and consistency in any orientation.



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Application Fields

应用领域

- Alarm systems (报警系统)
- Emergency systems (应急系统)
- Electronic instruments (电子仪器)
- Industrial equipment (工业设备)
- Marine applications (船舶应用)
- Telecommunications (邮电通信)
- Firefighting backup power (消防备用电源)
- Solar and wind power generation systems (太阳能和
风能发电系统)
- UPS (Uninterruptible Power Supply) for computer
backup power (UPS 计算机备用电源)
- Peak load compensation energy storage devices (峰
值后载补偿储能装置)



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Reference standards and product characteristics of various series batteries

序号	Product name	Reference standard	Product feature
1~2	Regular product series FM/GFM	GB/T 19638.1-2014 GB/T 19639.1-2014 YD/T 799-2010	• ABS&PP and flame retardant plastic housing • Exceptional design for battery life to 12-15 years • Safety valve improved to be rubber cap valve.
3	European Models 12V GFMZ series	YD/T 2343-2011	• Long service life: Design life over 12 years. • Minimum self-discharge. • Low water-loss rate.
4	Colloidal Storage Battery (AGM) GFMJ	GB/T 19638.1-2014 GB/T 19639.1-2014	• Good low temperature performance • Thick plate design, extending battery life.
5	Colloidal Storage Battery (PVC/PP) GFMJ	YD/T 1360-2005	• The utilization rate of active substances is higher • wide operating temperature range.
6	Lead carbon battery for electric power energy storage PBC Series	GB/T 36280-2023	• Adopting high carbon technology + deep cycle technique, having both advantage of energy and power. • Product design life for 15 years.
7	Stationary VRLA for electric power GFD series	DL/T637-2019 GB/T 19638-2014	• Uniformity of performance and capacity of floating charging voltage • Safe and reliable explosion-proof exhaust system.
8	China Southern Power Grid (Lead-Acid) GFD Series	DL/T637-2019 GB/T 19638.1-2014 VRLA technical specifications of China Southern Power Grid	• Design 20 years for float charging life. • Low self-discharge, low energy consumption during floating charge. • Special exhaust structure and sealing technique. • Can meet the requirements of China Southern Power Grid.
9	China Southern Power Grid (PP/PVC) GFD Series	DL/T637-2019 GB/T 19638.1-2014 VRLA technical specifications of China Southern Power Grid	• High safety: No free liquid, gel-like electrolyte • Long Service Life: Low Self-Discharge Rate, Resistant to Active Material Shedding • Excellent electrical performance: high charging efficiency
10	China Southern Power Grid Tubular Gel Battery OPzV-GFD Series	DL/T637-2019 GB/T 19638.1-2014 VRLA technical specifications of China Southern Power Grid	• improving battery corrosion resistance and lifespan. • Imported AMER-SIL separator, high porosity PVC-SiO2 • with a design lifespan of 20 years
11	CGC standards energy storage GEL Battery CNFJ Series	CGC/GF 045:2015	• Maintenance-free and no re-hydration required. • Wide temperature range (-35-45 ° C) • Unique formula, deep discharge and good recovery performance.
12	Tubular GEL battery OPzV series	DIN40742 IEC60896-21/22	• Environmental protection, low acid mist escape. • Strong constant power discharge ability . • Excellent charging acceptance & over-discharge.
13	High power storage battery GFMHR series	YD/T 3427—2018	• Long battery service life. • Low self-discharge rate. • Quick charge, saves time and power for capacity recovery . • Safe and reliable explosion-proof exhaust system.
14	High temperature battery GFMH series	YD/T 2657-2013	• Maintenance-free and no supplementary acid required. • Wide range adaption of ambient temperatures. • Long service life, safe and explosion-proof.

PRODUCT INTRODUCTION

产品介绍 - 常规系列



• Reference standard GB/T 19638-2014 YD/T 799-2010

12V Battery models list 6/GFM

Models	Capacity (Ah)	Reference dimension (mm)				Terminal	Weight (kg)	mΩ
		Length	Width	Height	T-Height			
6-GFM-65	65	350	166	172	179	T2/T4	20	≤ 10
6-GFM-70	70	260	168	215	215	T4	21.2	≤ 9.5
6-GFM-80	80	260	168	215	215	T4	24	≤ 9
6-GFM-100	100	330	172	220	220/228	T4	29	≤ 8
6-GFM-120	120	407	173	232	238	T4	34.8	≤ 6
6-GFM-150	150	485	170	242	242/245	T4	44.4	≤ 5
6-GFM-200	200	520	240	218	224/236	T5	60	≤ 3
6-GFM-250	250	521	269	220	225/249	T5	70	≤ 2.8

Regular Series FM/GFM series

FM/GFM series batteries are general purpose lead-acid batteries. Adopting multi-component high tin alloy combined with special grid structure and low acid density design to improve corrosion resistance of plate grid to prolong the service life of battery, at the same time, the electrolyte are completely absorbed by high-quality glass fiber (AGM) separators to ensure no free acid inside battery for improvement of pressure in interior equipment to increase battery safety and stability.

• Reference standard GB/T 19639-2014 YD/T 799-2010

12V Battery models list 6/GFM

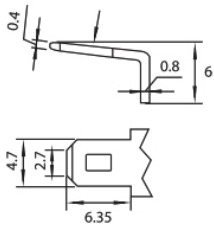
Models	Capacity (Ah)	参考尺寸 (mm)				Terminal	Weight (kg)	mΩ
		Length	Width	Height	T-Height			
6-FM-4	4	90	70	100	105	F1/F2	-	-
6-FM-7	7	151	65	95	101	F1/F2	-	-
6-FM-12	12	151	98	95	101	F1/F2	-	-
6-FM-17	17	181	76	155/165	155/165	T1/L1/L2	-	-
6-FM-18	18	181	76	155/165	155/165	T1/L1/L2	-	-
6-FM-20	20	181	76	155/165	155/165	T1/L1/L2	-	-
6-FM-24	24	165	125	175	178	T2	7.9	≤ 15
6-FM-33	33	195	130	155	165	T2	8.9	≤ 13.5
6-FM-38	38	198	166	175	182	T2	11.7	≤ 13
6-FM-40	40	198	166	175	182	T2	12.4	≤ 12.5
6-FM-55	55	229	138	205	210	T4	16.9	≤ 11.5
6-FM-65	65	350	166	172	179	T2/4	-	≤ 10

• Reference standard GB/T 19638-2014 YD/T 799-2010

2V Battery models list GFM

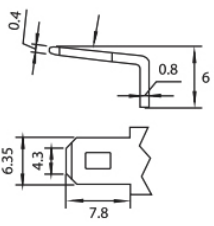
Models	Capacity (Ah)	Reference dimension (mm)				Terminal	Weight (kg)	mΩ
		Length	Width	Height	T-Height			
GFM-100	100	170	72	205	212	T4	5.5	≤ 1.5
GFM-200	200	170	110	330	350	T5/T6	11	≤ 1.0
GFM-300	300	170	150	330	350	T5/T6	17	≤ 0.8
GFM-400	400	210	175	330	350	T5/T6	22	≤ 0.6
GFM-500	500	240	175	330	350	T5/T6	27	≤ 0.6
GFM-600	600	300	175	330	350	T5/T6	31	≤ 0.4
GFM-800	800	410	175	330	350	T5/T6	41	≤ 0.4
GFM-1000	1000	475	175	330	350	T5/T6	51	≤ 0.3
GFM-1200	1200	475	175	330	350	T5/T6	65	≤ 0.3
GFM-1500	1500	400	350	340	375	T5/T6	85	≤ 0.3
GFM-2000	2000	500	350	340	375	T5/T6	118	≤ 0.2
GFM-3000	3000	712	350	340	375	T5/T6	165	≤ 0.2

Terminal Type



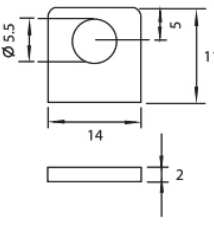
F1 (187) Unit: mm



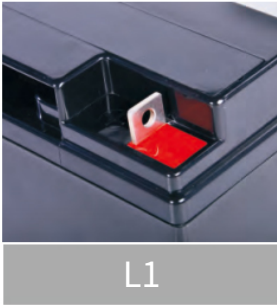


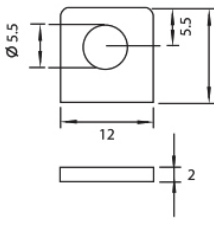
F2 (250) Unit: mm





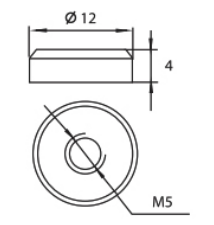
L1 Unit: mm
Torque:3.9~5.4Nm



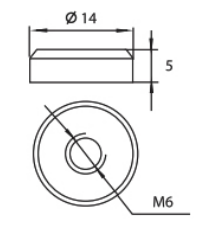


L2 Unit: mm
Torque:3.9~5.4Nm

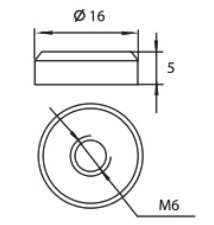




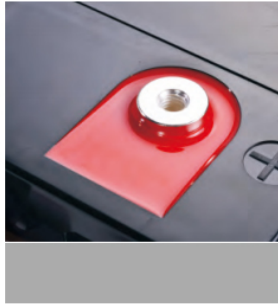
T1 Unit: mm
Torque:2 ~ 3Nm

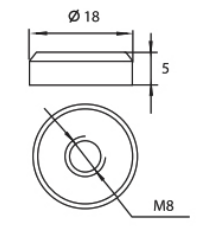


T2 Unit: mm
Torque:3 ~ 4Nm

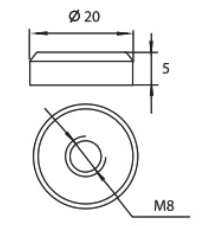


T3 Unit: mm
Torque:3.9~5.4Nm

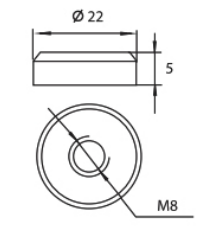




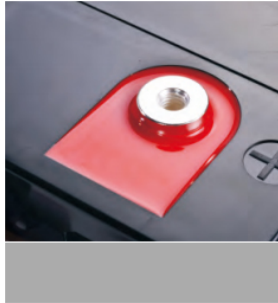
T4 Unit: mm
Torque:6.6~8.3Nm



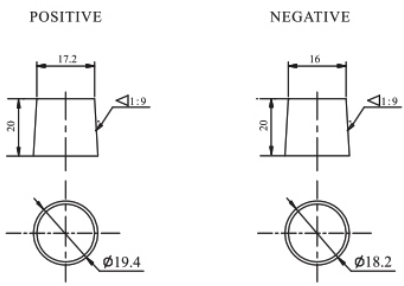
T5 Unit: mm
Torque:9.6~10.7Nm



T6 Unit: mm
Torque:12~13.6Nm

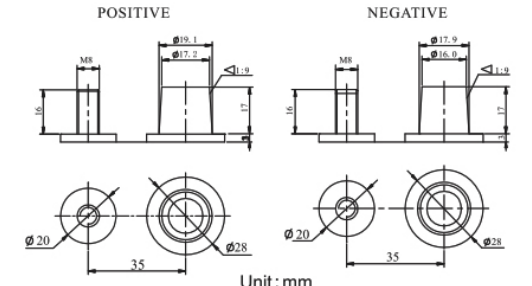


Terminal Type



AP Unit:mm Material:Lead Torque:5.6~7.9Nm

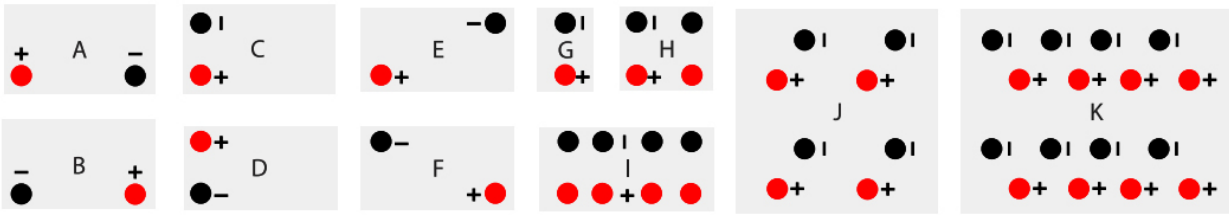




DT



Terminal Position



PRODUCT INTRODUCTION

产品介绍 - 6V 3-GFM 系列



6V 3-GFM series • Reference standard GB/T 19638-2014 YD/T 799-2010

FM/GFM series batteries are general purpose lead-acid batteries. Adopting multi-component high tin alloy combined with special grid structure and low acid density design to improve corrosion resistance of plate grid to prolong the service life of battery.

6V Battery models list/3-GFM								
Models	Capacity (Ah)	Reference dimension (mm)				Terminal	Weight (kg)	mΩ
		Length	Width	Height	T-Height			
3-GFM-100	100	195	172	206	213	T4	18	≤ 3
3-GFM-150	150	260	180	247	253	T4	24	≤ 2.5
3-GFM-180	180	322	178	228	234	T5	27.5	≤ 2
3-GFM-200	200	322	178	228	234	T5	30	≤ 2

PRODUCT INTRODUCTION

产品介绍 - 欧款 12V 6-GFMZ 系列



European Style 12V6GFZ Series • Reference standard YD/T 2343-2011

The regular series of general purpose batteries should be the ideal choice for your application, that can meet your usage requirements to provide you with an excellent usage experience whether in household emergency power supply or industrial equipment backup power supply or solar wind energy system.

European Style 12V Battery models list/EU-6GFM								
Models	Capacity (Ah)	Reference dimension (mm)				Terminal	Weight (kg)	mΩ
		Length	Width	Height	T-Height			
6-GFZ-55	55	290	106	223	231	M8	14	-
6-GFZ-100	100	396	110	286	286	M8	28	≤ 8
6-GFZ-105	105	507	110	223	223	M8	29.4	≤ 8
6-GFZ-150	150	551	110	288	288	M8	43	≤ 7
6-GFZ-180	180	561	125	316	328	M8	50.4	≤ 6.5
6-GFZ-200	200	561	125	316	328	M8	56	≤ 6

PRODUCT INTRODUCTION

产品介绍 - GFJ 系列



Valve-regulated sealed lead-acid (AGM) battery

• Reference standard GB/T 19638-2014

2VBattery models list /GFJ								
Models	Capacity (Ah)	Reference dimension (mm)				Terminal	Weight (kg)	mΩ
		Length	Width	Height	T-Height			
GFJ-100	100	172	72	205	215	T5	5.5	≤ 1.2
GFJ-150	150	172	102	205	228	T5	-	≤ 1.0
GFJ-200	200	173	110	330	350	T6	11	≤ 0.8
GFJ-300	300	171	151	330	350	T6	17	≤ 0.7
GFJ-400	400	211	176	330	350	T6	22	≤ 0.6
GFJ-500	500	242	172	330	350	T6	27	≤ 0.55
GFJ-600	600	301	175	330	350	T6	31	≤ 0.5
GFJ-800	800	410	175	330	350	T6	41	≤ 0.4
GFJ-1000	1000	475	175	330	350	T5/T6	51	≤ 0.3
GFJ-1200	1200	475	175	330	350	T5/T6	65	≤ 0.3
GFJ-1500	1500	400	350	340	375	T5/T6	85	≤ 0.3
GFJ-2000	2000	500	350	340	375	T5/T6	118	≤ 0.2
GFJ-3000	3000	712	350	340	375	T5/T6	165	≤ 0.2

12VBattery models list /6-GFJ								
Models	Capacity (Ah)	Reference dimension (mm)				Terminal	Weight (kg)	mΩ
		Length	Width	Height	T-Height			
6-FJ-17	17	181	76	168	168	L1	-	-
6-FJ-18	18	181	76	168	168	L1	-	-
6-FJ-20	20	181	76	168	168	L1	-	-
6-FJ-26	26	166	126	176	176	T2	-	-
6-FJ-33	33	195	131	155	165	T2	8.9	-
6-FJ-40	40	198	166	170	170	T2	12.4	-
6-FJ-55	55	229	138	214	214	T4	16.9	≤ 15
6-GFJ-70	70	260	168	214	214	T4	21.2	≤ 14
6-GFJ-80	80	260	168	214	214	T4	24	≤ 13
6-GFJ-90	90	306	168	214	214	T4	-	≤ 12.5
6-GFJ-100	100	306	168	214	214	T4	29	≤ 12
6-GFJ-110	110	329	173	234	234	T4	-	≤ 11.5
6-GFJ-135	135	341	173	234	234	T4	-	≤ 11
6-GFJ-150	150	482	170	238	238	T4	44.4	≤ 10
6-GFJ-180	180	532	207	223	223	T4	-	≤ 9.5
6-GFJ-200	200	520	238	223	223	T5	60	≤ 9
6-GFJ-250	250	520	268	220	220	T5	70	≤ 8

VRLA Gel (PVC/PP) Battery

• Refer to YD/T 1360-2005

2V Battery models /GFJ							
Models	Capacity (Ah)	Reference dimension (mm)				Terminal	mΩ
		Length	Width	Height	T-Height		
GFJ-150	150	172	102	205	228	T5	-
GFJ-200	200	173	110	330	350	T6	≤ 1.50
GFJ-300	300	171	151	330	350	T6	≤ 1.40
GFJ-400	400	211	176	330	350	T6	≤ 1.30
GFJ-500	500	242	172	330	350	T6	≤ 1.25
GFJ-600	600	301	175	330	350	T6	≤ 1.20
GFJ-800	800	410	175	330	350	T6	≤ 1.15
GFJ-1000	1000	475	175	328	350	T6	≤ 1.10

6V Battery models /3-GFJ							
Models	Capacity (Ah)	Reference dimension (mm)				Terminal	mΩ
		Length	Width	Height	T-Height		
3-GFJ-200	200	243	188	275	275	T4	-

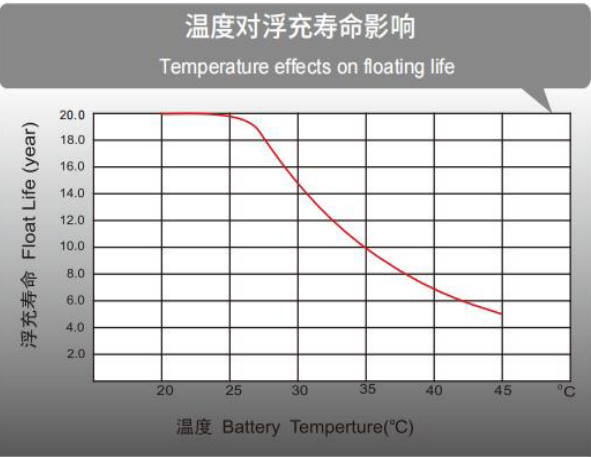
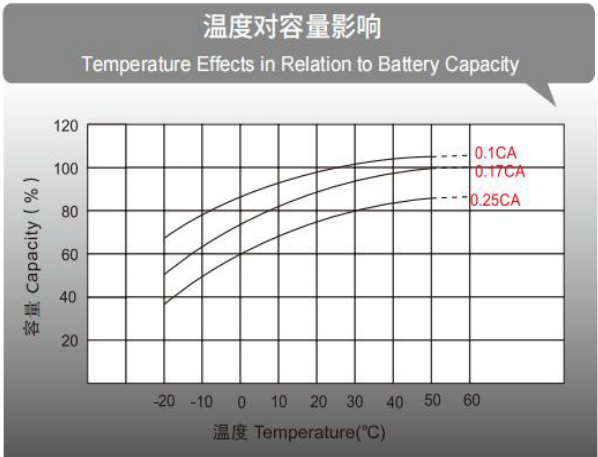
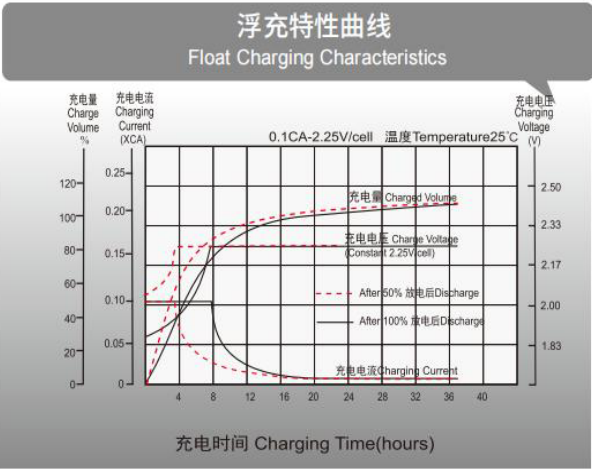
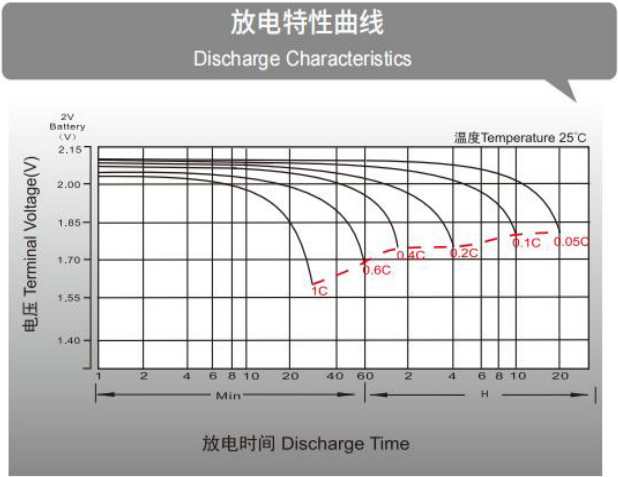
12V Battery models /6-GFJ							
Models	Capacity (Ah)	Reference dimension (mm)				Terminal	mΩ
		Length	Width	Height	T-Height		
6-FJ-18	18	181	76	168	168	L1	-
6-FJ-26	26	166	126	176	176	T2	-
6-FJ-33	33	195	131	155	165	T2	-
6-FJ-40	40	198	166	170	170	T2	-
6-FJ-55	55	229	138	214	214	T4	≤ 15
6-GFJ-70	70	260	168	214	214	T4	≤ 14
6-GFJ-80	80	260	168	214	214	T4	≤ 13
6-GFJ-90	90	306	168	214	214	T4	≤ 12.5
6-GFJ-100	100	306	168	214	214	T4	≤ 12
6-GFJ-110	110	329	173	234	234	T4	≤ 11.5
6-GFJ-135	135	341	173	234	234	T4	≤ 11
6-GFJ-150	150	482	170	238	238	T4	≤ 10
6-GFJ-180	180	532	207	223	223	T4	≤ 9.5
6-GFJ-200	200	520	238	223	223	T5	≤ 9
6-GFJ-250	250	520	268	220	220	T5	≤ 8

Difference between AGM Gel battery and PP/PVC Gel battery

Chara- cteristics	AGM Gel battery	PP/PVC Gel battery
Materials	Using ultrafine glass fiber separator and pure sulfuric acid aqueous solution electrolyte. Density: 29-1.31g/cm³.	Using the fixed silicon gel net electrolyte , gel-like sulfuric acid electrolyte with a lower density than AGM.
Structures	Tight assembly, thick plates design, extended battery life.	Non-tight assembly structure, thin plate design, large internal space.
Configuration	Thick plate battery with low utilization rate of active substance and lower discharge capacity.	A larger discharge capacity and higher utilization rate of active substance.
Electrical performance	High capacitance stability, good low temperature performance, cycle recharging ability is better than lead-acid batteries.	Good high rate discharge performance, large heat capacity, wide operating temperature range.
Safety and Environmental Protection	The acid is 100% sealed to reduce accident risks and environmental pollution.	Special design and sealing technology to ensure the safety and reliability for usage.

The table above indicates the characteristics and advantages between AGM Gel batteries and PP/PVC Gel batteries in material, structure, configuration, electrical performance, safety and environmental protection, maintenance and service life. The choice of appropriate battery type depends on the specific application requirements, cost budget and use environment and other factors to decide.

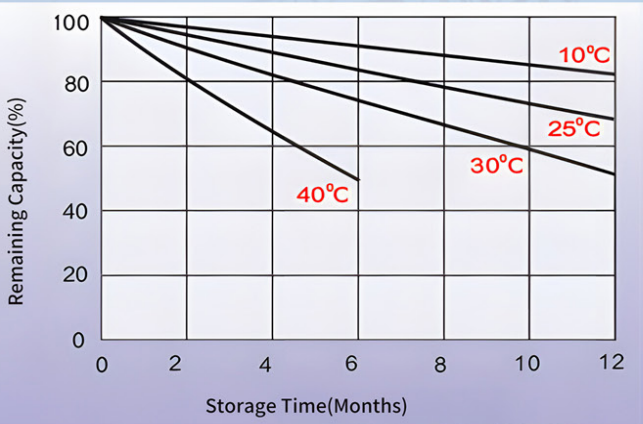
Gel battery performance curve



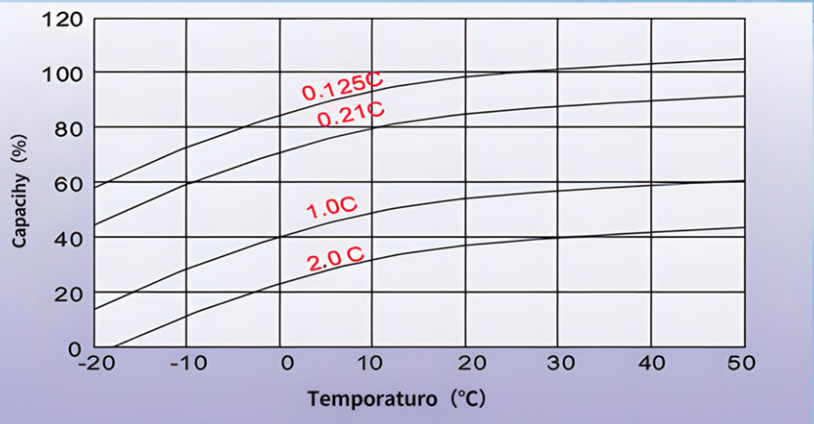
PRODUCT INTRODUCTION

产品介绍 - Lead Carbon Series

蓄电池自放电特性



蓄电池在不同温度下放电容量曲线



• Reference standard GB/T 36280-2023

12V Battery models list /PbC 6-GF						
Models	Capacity (Ah)	Reference dimension (mm)				Terminal
		Length	Width	Height	T-Height	
PbC 6-GF-20	20	180	76	156/165	156/165	M5
PbC 6-GF-24	24	165	125	175	175	M6
PbC 6-GF-33	33	195	130	160	165	M6
PbC 6-GF-38	38	197	166	175	175	M6
PbC 6-GF-40	40	197	166	175	175	M6
PbC 6-GF-55	55	229	138	207	207	M6
PbC 6-GF-65	65	350	166	172	172	M8
PbC 6-GF-80	80	260	167	215	215	M8
PbC 6-GF-100	100	329	172	218	218	M8
PbC 6-GF-120	120	407	173	232	232	M8
PbC 6-GF-150	150	485	170	242	242	M8
PbC 6-GF-200	200	520	240	218	218	M8
PbC 6-GF-250	250	520	266	218	218	M8

• Reference standard GB/T 36280-2023

2V Battery models list /PbC GF						
Models	Capacity (Ah)	Reference dimension (mm)				Terminal
		Length	Width	Height	T-Height	
PbC GF-100	100	170	72	205	212	M8
PbC GF-200	200	170	110	330	350	M8
PbC GF-300	300	170	150	330	350	M8
PbC GF-400	400	210	175	330	350	M8
PbC GF-500	500	240	175	330	350	M8
PbC GF-600	600	300	175	330	350	M8
PbC GF-800	800	410	175	330	350	M8
PbC GF-1000	1000	475	175	330	350	M8
PbC GF-1200	1200	475	175	330	350	M8
PbC GF-1500	1500	400	350	340	375	M8
PbC GF-2000	2000	490	350	340	375	M8
PbC GF-3000	3000	712	350	340	375	M8

PRODUCT INTRODUCTION

产品介绍 -GFD Series

参考标准 /Reference standards

- DL/T 637-2019
- GB/T 19638-2014

GFD series Stationary VRLA battery for electric power

Stationary VRLA battery for electric power is a kind of energy storage device specially designed for the power system. This kind of battery usually installed in specific sites, such as substation, power plant, etc., to use in providing emergency or backup power. The battery is designed with valves to control liberation of gas and keeping electrolyte sealed to reduce maintenance requirements. The operation is primarily worked through by recharging state to ensure stable power output when it is needed. In addition, there are clear technical requirements, experimental methods, testing rules and temperature of application environment of stationary VRLA battery for electric power in national and industrial standards.

2V Battery models list /GFD

Models	Capacity (Ah)	Reference dimension (mm)				Terminal
		Length	Width	Height	T-Height	
GFD-100	100	170	72	205	212	M8
GFD-200	200	170	110	330	350	M8
GFD-300	300	170	150	330	350	M8
GFD-400	400	210	175	330	350	M8
GFD-500	500	240	175	330	350	M8
GFD-600	600	300	175	330	350	M8
GFD-800	800	410	175	330	350	M8
GFD-1000	1000	475	175	330	350	M8
GFD-1200	1200	475	175	330	350	M8
GFD-1500	1500	400	350	340	375	M8
GFD-2000	2000	490	350	340	375	M8
GFD-3000	3000	712	350	340	375	M8

12V Battery models list /6-GFD

Models	Capacity (Ah)	Reference dimension (mm)				Terminal
		Length	Width	Height	T-Height	
6-GFD-65	65	350	166	145	175	M8/M6
6-GFD-70	70	260	168	210	215	M8
6-GFD-80	80	260	168	210	215	M8
6-GFD-100	100	406	170	210	236	M8
6-GFD-150	150	480	170	240	242	M8
6-GFD-200	200	520	266	218	233	M8



PRODUCT INTRODUCTION

China Southern Power Grid (GFD)



参考标准 / Reference standards

- Technical specifications of VRLA battery from China Southern Power Grid
- DL/T 637-2019
- GB/T 19638-2014

China Southern Power Grid Valve-Regulated Sealed Lead-Acid Battery

12V Battery models list /6-GFD						
Models	Capacity (Ah)	Reference dimension (mm)				Terminal
		Length	Width	Height	T-Height	
6-GFD-65	65	350	166	145	175	M8
6-GFD-70	70	260	168	210	215	M8
6-GFD-80	80	260	168	210	215	M8
6-GFD-100	100	406	170	210	236	M8
6-GFD-150	150	484	170	240	242	M8
6-GFD-200	200	520	266	218	233	M8

2V Battery models list /GFD						
Models	Capacity (Ah)	Reference dimension (mm)				Terminal
		Length	Width	Height	T-Height	
GFD-100	100	170	72	205	212	M8
GFD-200	200	170	110	330	350	M8
GFD-300	300	170	150	330	350	M8
GFD-400	400	210	175	330	350	M8
GFD-500	500	240	175	330	350	M8
GFD-600	600	300	175	330	350	M8
GFD-800	800	410	175	330	350	M8
GFD-1000	1000	475	175	330	350	M8
GFD-1200	1200	475	175	330	350	M8
GFD-1500	1500	400	350	340	375	M8
GFD-2000	2000	490	350	340	375	M8
GFD-3000	3000	712	350	340	375	M8

VRLA Gel Battery Of China Southern Power Grid

Eyasta Gel batteries adopted a Gel state electrolyte with larger electrolyte capacity and stronger heat dissipation capability at the same volume, to compared with liquid electrolyte batteries, there is no free liquid inside the Gel battery, which can better prevent thermal runaway phenomenon to ensure the safety and reliability of the battery. Self-discharge performance of Gel battery has been significantly improved to extend greatly the storage time of the battery. Meanwhile, it has strong resistance to overcharge and can effectively slow down the problem of capacity decrease. Eyasta Gel batteries are suitable for long time discharge and high current discharge in the working environment, it can show significant resistance to anti-sulphuration performance in the case of severe power shortage. during Its usage, it can greatly reduce maintenance requirements to achieve "maintenance-free" role especially in harsh environments. The charging efficiency and cycle life of Gel batteries been significantly improved to make them be the preferred power solution for many companies..

12V Battery models list /6-GFDJ						
Models	Capacity (Ah)	Reference dimension (mm)				Terminal
		Length	Width	Height	T-Height	
6-GFDJ-65	65	350	166	145	175	M8
6-GFDJ-70	70	260	168	210	215	M8
6-GFDJ-80	80	260	168	210	215	M8
6-GFDJ-100	100	406	170	210	236	M8
6-GFDJ-150	150	484	170	240	242	M8
6-GFDJ-200	200	520	266	218	233	M8

2V Battery models list /GFDJ						
Models	Capacity (Ah)	Reference dimension (mm)				Terminal
		Length	Width	Height	T-Height	
GFDJ-100	100	170	72	205	212	M8
GFDJ-200	200	170	110	330	350	M8
GFDJ-300	300	170	150	330	350	M8
GFDJ-400	400	210	175	330	350	M8
GFDJ-500	500	240	175	330	350	M8
GFDJ-600	600	300	175	330	350	M8
GFDJ-800	800	410	175	330	350	M8
GFDJ-1000	1000	475	175	330	350	M8
GFDJ-1200	1200	475	175	330	350	M8
GFDJ-1500	1500	400	350	340	375	M8
GFDJ-2000	2000	490	350	340	375	M8
GFDJ-3000	3000	712	350	340	375	M8

China Southern Power Grid Tube Gel Battery OPzV-GFD Series

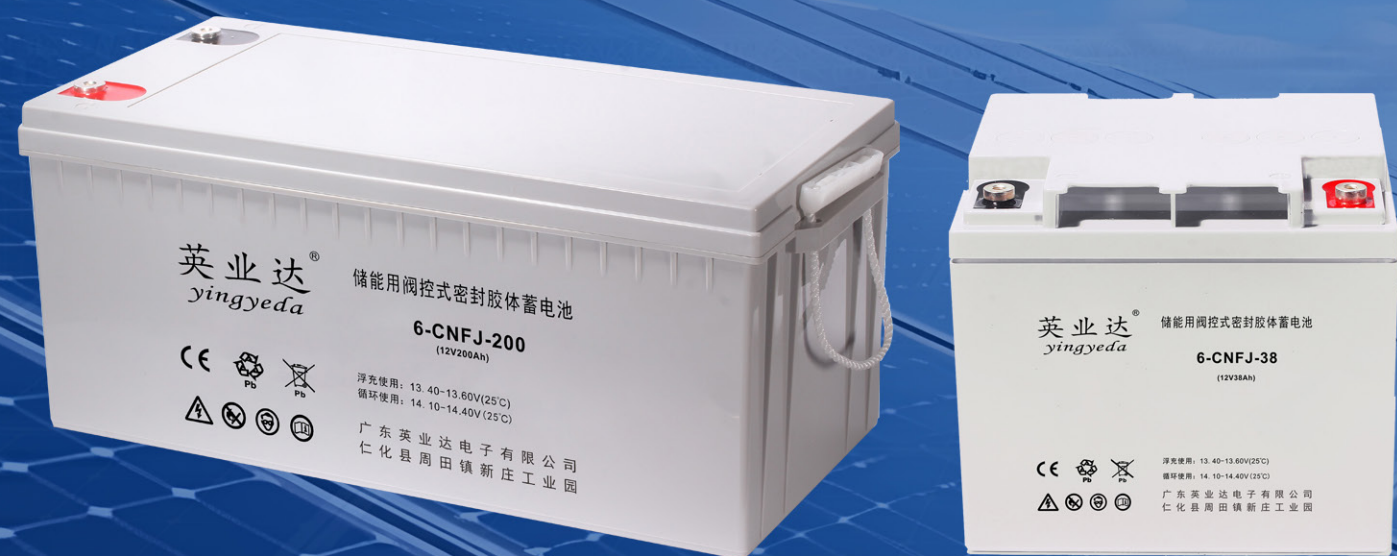
Eyasta tube Gel battery of China Southern Power Grid is mainly used in equipment of power transmission and transformation, which has the characteristics of high safety, long service life and low maintenance requirements. The positive plate adopted a tubular design, it can effectively prevent the active substances from shedding, thereby extending the battery life. The electrolyte adopted gel state, non-flowing to avoid the phenomenon of leakage and electrolyte delamination with good heat resistance and low temperature characteristics. This kind of battery is made of high-quality materials, low self-discharge rate, monthly self-discharge rate ≤1.5%. The special safety valve and the embedded copper core lead base column in battery structure design to improve the safety and current carrying capacity.

12V Battery models list /OPzV12					
Models	Capacity (Ah)	Reference dimension (mm)			
		Length	Width	Height	T-Height
OPzV12-60	60	260	169	211	216
OPzV12-80	80	328	172	222	222
OPzV12-100	100	407	177	225	255
OPzV12-120	120	483	170	240	240
OPzV12-140	140	530	209	214	219
OPzV12-160	160	530	209	214	219
OPzV12-180	180	522	240	219	240
OPzV12-200	200	520	268	220	225

2V Battery models list /OPzV2					
Models	Capacity (Ah)	Reference dimension (mm)			
		Length	Width	Height	T-Height
OPzV2-200	200	103	206	355	390
OPzV2-250	250	124	206	355	390
OPzV2-300	300	145	206	355	390
OPzV2-350	350	124	206	470	505
OPzV2-420	420	145	206	470	505
OPzV2-490	490	166	206	470	505
OPzV2-500	500	166	206	471	505
OPzV2-600	600	145	206	646	681
OPzV2-770	770	210	254	470	505
OPzV2-800	800	191	210	646	681
OPzV2-1000	1000	233	210	646	681
OPzV2-1200	1200	275	210	646	681
OPzV2-1500	1500	275	210	646	681
OPzV2-2000	2000	399	212	772	807
OPzV2-2500	2500	487	212	772	807
OPzV2-3000	3000	576	212	772	807

PRODUCT INTRODUCTION

产品介绍 -CNFJ Series



CNFJ CGC standard GEL battery of energy storage

• Reference standard CGC/GF 045:2015

CNFJ series batteries are general purpose lead-acid batteries. Adopting multi-component high tin alloy combined with special grid structure and low acid density design to improve corrosion resistance of plate grid to prolong the service life of battery, at the same time, the electrolyte are completely absorbed by high-quality glass fiber (AGM) separators to ensure no free acid inside battery for improvement of pressure in interior equipment to increase battery safety and stability.

12V Battery models list /6-CNFJ				
Models	Capacity (Ah)	Reference dimension (mm)		
		Length	Width	Height
6-CNFJ-17	17	181	76	158
6-CNFJ-24	24	165	125	175
6-CNFJ-33	33	195	130	166
6-CNFJ-38	38	197	165	175
6-CNFJ-55	55	229	138	210
6-CNFJ-65	65	350	166	175
6-CNFJ-70	65	260	168	215
6-CNFJ-80	80	260	168	215
6-CNFJ-100	100	329	172	220
6-CNFJ-120	120	532	207	214
6-CNFJ-150	150	485	170	242
6-CNFJ-200	200	522	240	218
6-CNFJ-250	250	520	266	220

2V Battery models list /CNFJ				
Models	Capacity (Ah)	Reference dimension (mm)		
		Length	Width	Height
CNFJ-100	100	170	72	170
CNFJ-150	150	172	102	227
CNFJ-200	200	170	110	350
CNFJ-300	300	170	150	350
CNFJ-400	400	210	175	350
CNFJ-500	500	240	175	330
CNFJ-600	600	301	175	350
CNFJ-700	700	300	175	350
CNFJ-800	800	410	350	175
CNFJ-1000	1000	475	175	365

PRODUCT INTRODUCTION

产品介绍 -OPzV Series



OPzV 管式胶体电池 • Reference standard: DIN40742 IEC60896-21/22

OPzV tubular GEL battery is a kind of high-performance battery, its core principle is to use technology of colloidal electrolyte to fix sulfuric acid electrolyte in the colloid, thereby reducing evaporation of water and delamination of electrolyte in order to keep a very low self-discharge rate.

12V Battery models list /OPzV12					
Models	Capacity (Ah)	Reference dimension (mm)			
		Length	Width	Height	T-Height
OPzV12-60	60	260	169	211	216
OPzV12-80	80	328	172	222	222
OPzV12-100	100	407	177	225	255
OPzV12-120	120	483	170	240	240
OPzV12-140	140	530	209	214	219
OPzV12-160	160	530	209	214	219
OPzV12-180	180	522	240	219	240
OPzV12-200	200	520	268	220	225

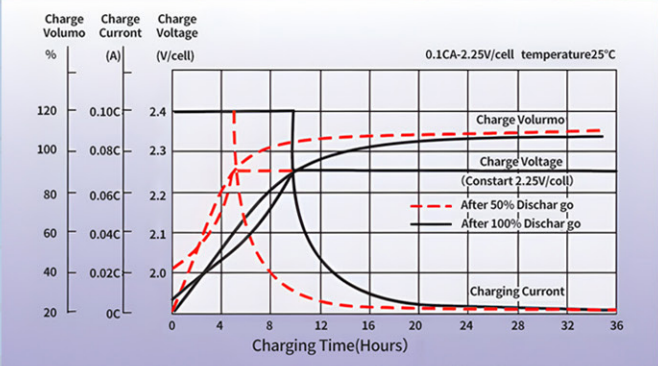
2V Battery models list /OPzV2					
Models	Capacity (Ah)	Reference dimension (mm)			
		Length	Width	Height	T-Height
OPzV2-200	200	103	206	355	390
OPzV2-250	250	124	206	355	390
OPzV2-300	300	145	206	355	390
OPzV2-350	350	124	206	470	505
OPzV2-420	420	145	206	470	505
OPzV2-490	490	166	206	470	505
OPzV2-500	500	166	206	471	505
OPzV2-600	600	145	206	646	681
OPzV2-770	770	210	254	470	505
OPzV2-800	800	191	210	646	681
OPzV2-1000	1000	233	210	646	681
OPzV2-1200	1200	275	210	646	681
OPzV2-1500	1500	275	210	646	681
OPzV2-2000	2000	399	212	772	807
OPzV2-2500	2500	487	212	772	807
OPzV2-3000	3000	576	212	772	807

PRODUCT INTRODUCTION

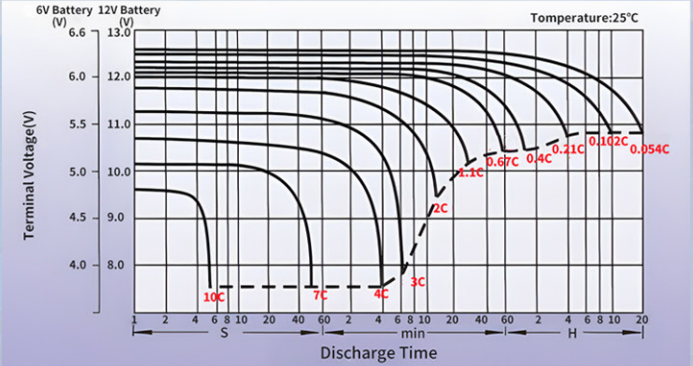
High power storage battery series



高功率蓄电池充电特性曲线



高功率蓄电池放电特性曲线



High power storage battery series • Reference standard YD/T 3427—2018

HR series are high rate lead-acid batteries. Using CDDR punching plate grid with characteristics of high density, corrosion resistance and good consistency. In addition, the high compound alloy and the grid plate of formula of special lead paste to improve the corrosion resistance of grid plates.

12V Battery models list /GFMHR						
Models	Capacity (Ah)	Reference dimension (mm)				mΩ
		Length	Width	Height	T-Height	
6-GFMHR-460W	100	407	173	236	236	≤ 6
6-GFMHR-750W	160	523	206	220	220	≤ 5
6-GFMHR-850W	200	485	170	235	242	≤ 4
6-GFMHR-950W	250	520	266	224	224	≤ 2

2V Battery models list /GFMHR						
Models	Capacity (Ah)	Reference dimension (mm)				mΩ
		Length	Width	Height	T-Height	
GFMHR-340W	100	170	72	205	212	-
GFMHR-670W	200	170	150	330	350	≤ 0.8
GFMHR-1020W	300	170	150	330	350	≤ 0.6
GFMHR-1350W	400	210	175	330	350	≤ 0.5
GFMHR-1580W	500	240	175	330	350	≤ 0.4
GFMHR-1760W	600	300	175	330	350	≤ 0.4
GFMHR-2340W	800	410	175	330	350	≤ 0.3
GFMHR-2920W	1000	475	175	350	365	-

PRODUCT INTRODUCTION

High temperature battery series

• Reference standard YD/T 2657-2013

2V Battery models list /GFMH								
Models	Capacity (Ah)	Reference dimension (mm)				Terminal	Weight (kg)	mΩ
		Length	Width	Height	T-Height			
GFMH-100	100	171	72	205	228/210	M8	-	-
GFMH-150	150	172	102	205	227	M8	-	-
GFMH-200	200	173	111	330	360/350	M8	11	≤ 1.0
GFMH-250	250	173	111	330	360/350	M8	14	≤ 0.9
GFMH-300	300	171	151	330	350	M8	17	≤ 0.8
GFMH-350	350	171	151	330	350	M8	19.4	≤ 0.7
GFMH-400	450	211	176	330	350	M8	22	≤ 0.6
GFMH-450	450	223	187	350	375	M10	23.2	≤ 0.6
GFMH-500	500	241	172	330	353	M8	27	≤ 0.6
GFMH-600	600	301	175	330	350	M8	31	≤ 0.4
GFMH-750	750	301	175	330	350	M8	38.5	≤ 0.4
GFMH-800	800	410	175	330	350	M8	41	≤ 0.4
GFMH-850	850	410	175	330	350	M8	43.5	≤ 0.4
GFMH-1000	1000	475	175	328	350	M8	51	≤ 0.3
GFMH-1250	1250	475	175	328	350	M8	68	≤ 0.3
GFMH-1500	1500	401	351	342	375	M8/M10	85	≤ 0.3
GFMH-2000	2000	491	351	342	375	G	110	≤ 0.2
GFMH-2500	2500	491	351	342	375	G	137.5	≤ 0.2
GFMH-3000	3000	712	353	342	375	G	165	≤ 0.2

6V Battery models list /3-GFMH								
Models	Capacity (Ah)	Reference dimension (mm)				Terminal	Weight (kg)	mΩ
		Length	Width	Height	T-Height			
3-GFMH-100	100	195	170	206	209	M8	18	-
3-GFMH-180	180	306	186	220	225	M8	27	-
3-GFMH-190	190	243	187	275	275	M8	28.5	-
3-GFMH-200	200	323	178	226	230	M8	30	-

GFMH High temperature battery series

• Reference standard YD/T 2657-2013

12V Battery models list /6-GFMH								
Models	Capacity (Ah)	Reference dimension (mm)				Terminal	Weight (kg)	mΩ
		Length	Width	Height	T-Height			
6-GFMH-17	17	181	76	165	165	L/M5	-	-
6-GFMH-20	20	181	76	165	165	L/M5	-	
6-GFMH-24	24	176	166	125	125	L1	7.5	-
6-GFMH-26	26	176	166	125	125	L1	8.2	≤ 14
6-GFMH-28	28	165	125	175	175	M6	8.4	≤ 14
6-GFMH-33	33	195	130	155	180/167	M6	9.9	≤ 13.5
6-GFMH-38	38	198	166	170	170	M6	11.5	≤ 13
6-GFMH-44	44	198	166	170	170	M6	13.4	≤ 12
6-GFMH-55	55	229	138	208/212	228/216	M8	17	≤ 11
6-GFMH-65	65	350	169	176/179	176/179	M6/M8	20	≤ 10
6-GFMH-70	70	260	168	209	231/212	M8	21.5	≤ 9
6-GFMH-80	80	260	168	209	231/212	M8	24	≤ 9
6-GFMH-90	90	307	169	208	227/213	M8	26.4	≤ 8.5
6-GFMH-100	100	339	173	212	217	M8	29	≤ 8
6-GFMH-120	120	409	177	225	225	M6	38	≤ 8
6-GFMH-135	135	341	173	282	286	M8	40.5	≤ 8
6-GFMH-150	150	483	170	240	240	M8	45	≤ 7
6-GFMH-160	160	532	207	215	240/218	M8	48	≤ 7
6-GFMH-180	180	532	207	215	240/218	M8	54	≤ 6.5
6-GFMH-200	200	522	240	218	222	M8	60	≤ 6
6-GFMH-230	230	520	259	203	206	M8	-	-
6-GFMH-240	240	520	259	203	206	M8	-	-
6-GFMH-250	250	520	259	220	245/225	M8	-	-

12V Battery models list /6-GFMZH								
Models	Capacity (Ah)	Reference dimension (mm)				Terminal	Weight (kg)	mΩ
		Length	Width	Height	T-Height			
6-GFMZH-55	55	277	106	223	223	M6	-	≤ 12
6-GFMZH-80	80	394	110	286	286	M8	-	≤ 9
6-GFMZH-100	100	394	110	286	286	M8	-	≤ 8
6-GFMZH-120	120	552	110	240	240	M8	-	-
6-GFMZH-150	150	551	110	288	288	M8	-	-

PRODUCT INTRODUCTION

Enhanced storage battery mounting tray

Eyasta Enhanced storage battery mounting tray can solve short circuit problem caused by battery leakage from back-end to truly achieve physical isolation, greatly avoid fire hazard caused by battery leakage to improve the safety of users.

The raised stripes inside the base can keep a certain distance between the base and the bottom of battery to ensure the performance of heat dissipation of battery.

The bottom of the base adopted the mesh bar structure to effectively enhance the load bearing and pressure resistance of the tray.

The use of high-quality raw materials improves the overall toughness and impact resistance of the base to better resist battery corrosion.



Top view



Bottom view



Front view



Lateral view



Applicable model: 12V38Ah



Applicable model: 12V55Ah



Applicable model: 12V65Ah



Applicable model: 12V100Ah



Applicable model: 12V120Ah



Applicable model: 12V200Ah



Applicable model: 12V250Ah

More models are being updated

Dimensions reference picture of enhanced type storage battery of mounting base tray

Suitable models	Length (mm)	Width (mm)	Height (mm)
12V38Ah	324	175	34.5
12V55Ah	343	172	34.5
12V65Ah	344	173	35
12V100Ah	321	165	29
12V120Ah	398	165	29
12V200Ah	334	176	30
12V250Ah	507	269.8	39.5

PRODUCT INTRODUCTION

Start and stop the lead-acid storage battery

Start and stop the lead-acid storage battery

• Reference standard GB/T 43346-2023
(Guangdong International Co., Ltd. is the one of drafting units of national standard)
Automotive applications of start-stop system will be turned a short stop off at a traffic lights in order to save fuel and reduce 5-10% CO2 emissions.

Technology Focus:

In response to EU goal about reducing CO2 emissions, almost all the European car makers have applied start-stop car batteries to require the engine to be turned off while the car is stopping but putting car in neutral .

Requirements:

The battery needed to start the engine frequently and provide power to other devices when the car is in "stop" mode. The AGM start-stop battery is integrated by a complex energy and battery management system.

AGM series model list

Series Model	Reference dimension (mm)				CCA
	Length	Width	Height	T-Height	
6-QTF-60-L	242	175	190	190	810~890
6-QTF-70-L	278	175	190	190	940~1000
6-QTF-80-L	315	175	190	190	1036~1080
6-QTF-92-L	353	175	190	190	1090~1130
6-QTF-105-L	394	175	190	190	1150~1250

EFB 系列型号表

Series Model	Reference dimension (mm)				CCA
	Length	Width	Height	T-Height	
12v60Ah	242	175	190	190	660~690
12v70Ah	278	175	190	190	790~820
Q85	232	173	205	228	660~690
S95	260	173	205	228	815~850

PRODUCT INTRODUCTION

Motor-bicycle lead-acid storage battery

Motor-bicycle lead-acid storage battery

• Reference standard GB/T 23638-2009

Motor-bicycle lead-acid storage battery is a kind of energy storage device technically designed for motorcycles, which is mainly used to start the engine for providing power to lights & signal lamps of motorcycle .

Electromotive force stability: Lead-acid batteries can provide a relatively stable electromotive force during discharge process.

Large capacity & small internal resistance: In order to start the engine, the battery must be able to supply continuous large currents to the starter in a short time, hence the battery has a larger capacity and a smaller internal resistance.

Non-valve regular battery model table

Category	Series Model	Voltage	Ampere Hour	Reference dimension (mm)			-18℃ I _{cc} (A)
				Length (mm)	Width (mm)	Height (mm)	
Non-starter storage battery	3-M-2 I	6	2	70	46	95	-
	3-M-4 II	6	4	70	70	95	-
	3-M-4 IV	6	4	100	47	95	-
	3-M-6	6	6	99	56	110	-
	3-M-11 I	6	11	120	60	130	-
	6-M-2.5	12	2.5	80	70	104	-
	6-M-3	12	3	98	56	110	-
	6-M-4	12	4	120	70	93	-
Starter storage battery	6-M-5	12	5	120	60	130	50
	6-MQ-6 I	12	6	130	70	95	60
	6-MQ-6 II	12	6	138	65	100	60
	6-MQ-7 II	12	7	137	75	135	70
	6-MQ-7 V	12	7	150	60	130	70
	6-MQ-9	12	9	135	75	140	80
	6-MQ-10 I	12	10	135	90	145	100
	6-MQ-12 I	12	12	135	80	160	120
	6-MQ-14 I	12	14	135	90	165	140
	6-MQ-14 II	12	14	135	90	175	140
	6-MQ-16 I	12	16	160	90	160	160
	6-MQ-18 I	12	18	180	90	162	180
	6-MQ-18 II	12	18	205	90	162	180
	6-MQ-19 I	12	19	175	110	155	190
	6-MQ-24	12	24	185	125	175	200
	6-MQ-30 I	12	30	168	132	175	260

Valve regular battery model table							
Category	Series Model	Voltage	Ampere Hour	Reference dimension (mm)			-18℃ Icc (A)
				Length (mm)	Width (mm)	Height (mm)	
Non-starter storage battery	3-Mf-4 I	6	4	70	70	95	-
	3-Mf-4 II	6	4	101	47	95	-
	3-M-5	6	5	124	49	104	-
	3-MF-6	6	6	95	55	117	-
	3-MF-10	6	10	91	83	159	-
	3-MF-11	6	11	121	58	130	-
	3-MF-12	6	12	117	81	161	-
Starter storage battery	6-MFQ-2.3 I	12	2.3	114	40	86	25
	6-MFQ-2.3 II	12	2.3	114	50	85	25
	6-MFQ-2.5	12	2.5	80	77	105	20
	6-MFQ-3 I	12	3	98	56	109	30
	6-MFQ-3 II	12	3	113	70	85	30
	6-MFQ-3 III	12	3	120	70	90	30
	6-MFQ-3.5	12	3.5	113	70	85	35
	6-MFQ-4	12	4	113	70	85	40
	6-MFQ-5 I	12	5	113	70	105	50
	6-MFQ-5 II	12	5	119	60	129	50
	6-MFQ-6 I	12	6	113	70	130	60
	6-MFQ-6 II	12	6	113	70	130	60
	6-MFQ-6 III	12	6	149	60	129	60
	6-MFQ-6 IV	12	6	150	86	94	60
	6-MFQ-6.5	12	6.5	138	65	101	65
	6-MFQ-6.5	12	6.5	138	65	105	65
	6-MFQ-6.5	12	6.5	150	65	93	65
	6-MFQ-7 I	12	7	113	70	120	80
	6-MFQ-7 II	12	7	113	76	130	70
	6-MFQ-7 III	12	7	137	76	130	70
	6-MFQ-7 IV	12	7	149	60	129	70
	6-MFQ-7 V	12	7	150	86	94	70
	6-MFQ-8 I	12	8	150	70	105	80
	6-MFQ-8 II	12	8	150	86	94	80
	6-MFQ-8.6	12	8.6	150	86	94	110
	6-MFQ-9 I	12	9	135	75	140	80

Valve regular battery model table							
Category	Series Model	Voltage	Ampere Hour	Reference dimension (mm)			-18℃ Icc (A)
				Length (mm)	Width (mm)	Height (mm)	
Starter storage battery	6-MFQ-9 II	12	9	137	76	134	80
	6-MFQ-10 I	12	10	132	88	145	100
	6-MFQ-10 II	12	10	150	70	130	100
	6-MFQ-10 III	12	10	150	86	130	100
	6-MFQ-11	12	11	150	86	130	100
	6-MFQ-12 I	12	12	134	78	156	120
	6-MFQ-12 II	12	12	150	70	145	120
	6-MFQ-12 III	12	12	150	86	130	120
	6-MFQ-12 IV	12	12	150	86	145	120
	6-MFQ-14 I	12	14	132	88	163	140
	6-MFQ-14 II	12	14	150	86	145	140
	6-MFQ-14 III	12	14	150	86	161	160
	6-MFQ-16 I	12	16	150	87	161	160
	6-MFQ-16 II	12	16	205	70	162	160
	6-MFQ-18	12	18	175	87	155	180
	6-MFQ-19 I	12	19	173	100	175	210
	6-MFQ-19 II	12	19	173	100	175	210
	6-MFQ-20	12	20	175	87	155	220
	6-MFQ-21 I	12	21	205	91	159	200
	6-MFQ-21 II	12	21	205	87	162	200
	6-MFQ-24 I	12	24	184	124	170	240
	6-MFQ-24 II	12	24	205	91	159	280
Starter storage battery	6-MFQ-30 I	12	30	166	127	175	300
	6-MFQ-30 II	12	30	184	124	170	300

SUCCESS CASES

成功案例



Wind power generation



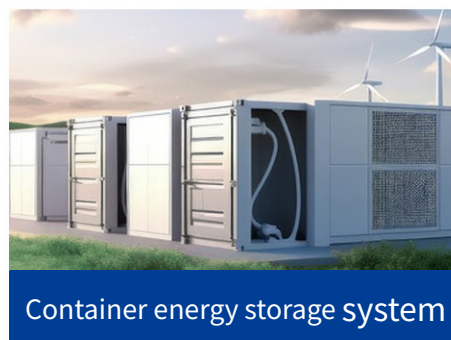
Rail traffic



IDC data centre



Communication base station



Container energy storage system



Solar power generation

Core centers: Power long life battery, energy storage battery, data center battery.
Core centers: Power long life battery, energy storage battery, data center battery.
Our customers: We have many cooperation cases with State Grid Cooperation of China in more than 10 provinces, and many cooperation cases with China Southern Power Grid in 4 provinces, and cooperation cases with power stations, energy storage systems and electric power companies.

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