



GFMJ (OPzV) Series VRLA Gel Battery



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shoto[®]



Make full use of internet platform
Big Data cloud storage
Service for customers worldwide

With market share ranking first in the mainstream of China's telecom operators for many years and have get the net certificate in many regions around the world and sell to 127 nations and districts in five continents.

Shoto firmly promote green low-carbon career and always fulfill the concept of "new energy, circularity and high-tech", to manage from the five link key aspects: design, development, green purchasing, system management, recycling, energy conservation and emissions reduction to create green model for the industry, to create a green life for human beings and store a green future for the earth.

Pursue the perfection
To build up a strong
and sustainable enterprise

Shoto has owned several honors such as "National environment friendly enterprise", "National key high-tech industry group", "China's top 100 electronic information enterprises", "Global 500 new energy enterprises".

Explore actively
To find an ever-increasing energy new world

Communication

Possess all series of energy storage solutions and provide firm green energy security;

Telecom

Becoming the core of constructing the future smart grid center;

Power

New clean and efficient power energy, to provide endless power for the social development;

Recycling

Take the lead in building circulation industry chain, make renewable energy, restore a healthy earth.

Converge global industry experts
and unite research institutes
Collaborate with customers to develop
the world's leading energy storage systems

The establishment of the Chinese Academy of Sciences in cooperation with the establishment of the Advanced Energy Development Research Center, academicians workstation, post-doctoral research station, state-level enterprise technology center have take on the 863 and other national research projects and research and develop the world forward-looking high-end new energy projects.

Main Applications

- Deep cycling energy storage application
- Solar& wind energy storage system
- Off-grid & bad-grid hybrid sites
- Floating applications for telecom sites

Benefits

- Long life design for cyclic or float application
- Excellent charge acceptability and deep cycling performance
- Excellent over discharge recovery capability
- Superior charging & discharging ability in low current
- Extend service life under high temperature

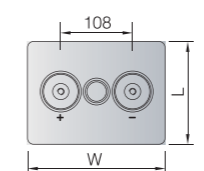
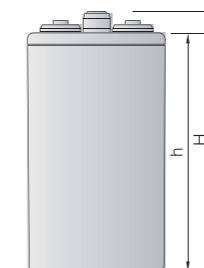
Technical Features

- According to DIN-40742 standards, design life of 20 years
- Tubular plate & special gel electrolyte, which can prevent active material falling and avoid acid stratification
- High stability and security, millions of batteries are in service
- Higher thermal capacity & better thermal diffusivity

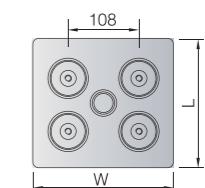
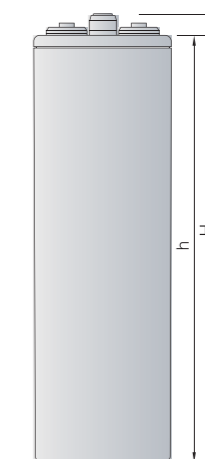


The GFMJ (OPzV) series tubular gel battery is the product developed by SHOTO through the international advanced gel technology with outstanding performance and has been widely used in the world. With tubular plate, corrosion-resistant alloy materials, special gel electrolyte, micropore separator and advanced heat-sealing technology, GFMJ series battery devotes itself to provide more stable and reliable backup power for communication, energy storage and electrical systems.

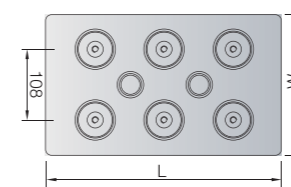
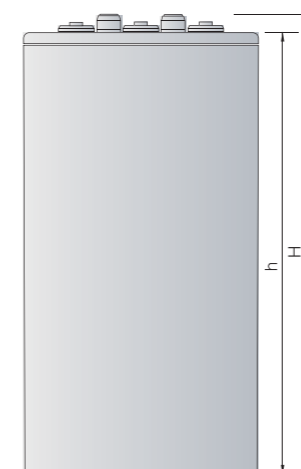
Drawings



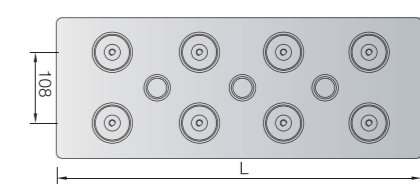
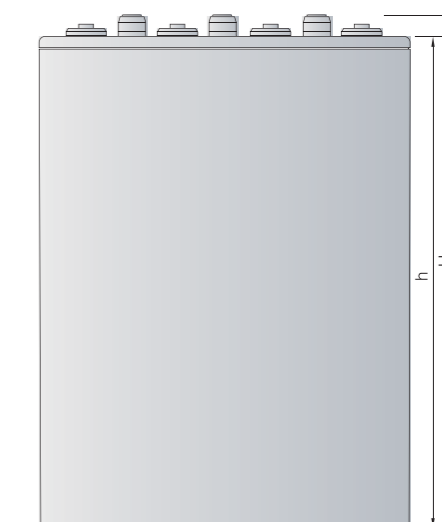
GFMJ-200~GFMJ-600



GFMJ-800~GFMJ-1500



GFMJ-2000



GFMJ-2500~GFMJ-3000

Passion for Storage
and Green Energy

Specification



	GFMJ-200	GFMJ-250	GFMJ-300	GFMJ-350	GFMJ-420
Nominal Voltage(V)	2	2	2	2	2
Length(mm)	103	124	145	124	145
Width(mm)	206	206	206	206	206
Height of Monobloc (mm)	354	354	354	470	470
Total Height(mm)	386	386	386	502	502
10hr Capacity(Ah, 25° C)	200	250	300	350	420
Terminal	M10	M10	M10	M10	M10
Terminal Torque(Nm)	20 ~ 25	20 ~ 25	20 ~ 25	20 ~ 25	20 ~ 25
Internal Resistance (mΩ)	0.68	0.62	0.47	0.46	0.42
Short Circuit Current(A)	2956	3215	4238	4305	4750
Weight(kg)	18.2	21.5	26.0	27.5	32.5



	GFMJ-490	GFMJ-600	GFMJ-800	GFMJ-1000	GFMJ-1200
Nominal Voltage(V)	2	2	2	2	2
Length(mm)	166	145	191	233	275
Width(mm)	206	206	210	210	210
Height of Monobloc (mm)	470	645	645	645	645
Total Height(mm)	502	677	677	677	677
10hr Capacity(Ah, 25° C)	490	600	800	1000	1200
Terminal	M10	M10	M10	M10	M10
Terminal Torque(Nm)	20 ~ 25	20 ~ 25	20 ~ 25	20 ~ 25	20 ~ 25
Internal Resistance (mΩ)	0.38	0.35	0.32	0.27	0.24
Short Circuit Current(A)	5195	5706	6297	7439	8314
Weight(kg)	37.5	46.5	62.0	77.0	91.0



	GFMJ-1500	*GFMJ-1500B	GFMJ-2000	GFMJ-2500	GFMJ-3000
Nominal Voltage(V)	2	2	2	2	2
Length(mm)	340	275	399	487	576
Width(mm)	210	210	214	212	212
Height of Monobloc (mm)	645	795	772	772	772
Total Height(mm)	677	804	804	804	804
10hr Capacity(Ah, 25° C)	1500	1500	2000	2500	3000
Terminal	M10	M10	M10	M10	M10
Terminal Torque(Nm)	20 ~ 25	20 ~ 25	20 ~ 25	20 ~ 25	20 ~ 25
Internal Resistance (mΩ)	0.23	0.23	0.22	0.22	0.21
Short Circuit Current(A)	8873	8541	8903	9132	9360
Weight(kg)	111.0	111.0	154.5	186.5	222.0