

GFM-H Series

GFM-500H 2V500Ah

GFM-H series batteries use AGM technology with single large capacity and thick plate structure design. It has longer floating life and high floating consistency. Its modular and horizontal structure design ensures convenient installation and maintenance, saving space effectively. It is suitable for applications with high floating consistency requirements and data center.

Benefits

- Very long life according to EUROBAT Classification
- High discharge performance
- 99%+ gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Horizontal installation method effectively prevent electrolyte stratification

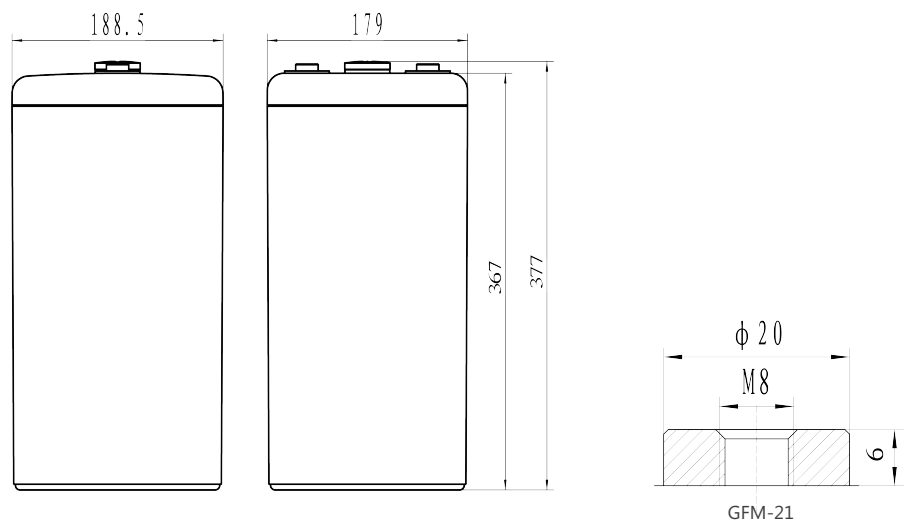
Drawing

Applications

- Telecommunications
- Power system
- UPS
- Electrical Power plants and substation
- Data center

Standards

- IEC 60896-21/22
- DL/T 637-1997
- EUROBAT guide



Specifications

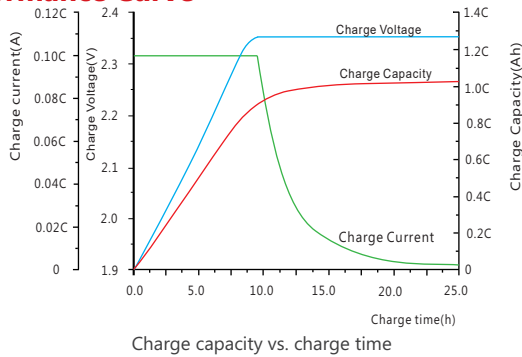
Battery Model	GFM-500H			
Design Life (years, 25°C)	18			
Capacity (Ah, 25°C)	10HR (50A, 1.80V)	5HR (85A, 1.80V)	3HR (125A, 1.80V)	1HR (275A, 1.75V)
	500	425	375	275
Dimensions (mm)	Length	Width	Height	Total Height
	188.5	179	367	377
Approx. Weight (kg)	27.3			
Reference Internal Resistance (mΩ)	0.39 ±15% (fully charged @ 25°C, Testing device: HIOKIBT3562)			
Maximum Discharge Current (A/5 Sec.)	1750			
Self-Discharge (25°C)	≤1.5% per months			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.35 (-3.5mV/°C/cell), max charge current: 75A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	4800			

Discharge Data

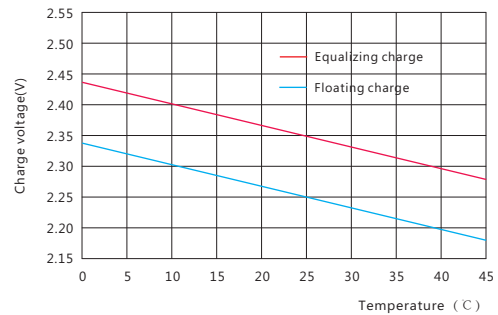
Constant Current Discharge Data (25°C, A)															
End Voltage (V/cell)	min			h											
	30	40	50	1	2	3	4	5	6	7	8	9	10	12	
1.60	460	380	322	309	188	142	113	95	81	72	65	59	55	45	
1.65	445	368	314	305	184	138	110	93	79	70	63	57	53	44	
1.70	410	350	302	295	178	134	107	90	77	68	61	56	52	43	
1.75	375	330	285	275	172	129	103	88	75	66	59	54	51	42	
1.80	340	306	272	250	160	125	96	85	72	64	58	53	50	41	

Constant Power Discharge Data (25°C, W/cell)															
End Voltage (V/cell)	min			h											
	30	40	50	1	2	3	4	5	6	7	8	9	10	12	
1.60	822	682	584	558	348	262	211	174	153	137	124	115	104	89	
1.65	802	668	575	550	342	258	208	172	151	135	122	113	103	88	
1.70	753	640	560	545	334	252	203	169	150	132	120	111	102	86	
1.75	702	625	540	516	326	244	196	164	145	130	117	108	100	85	
1.80	645	568	512	479	309	232	186	158	140	125	115	106	98	84	

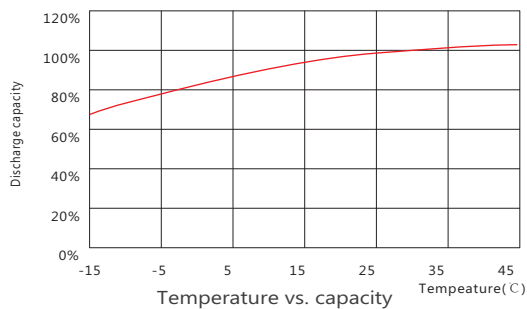
Performance Curve



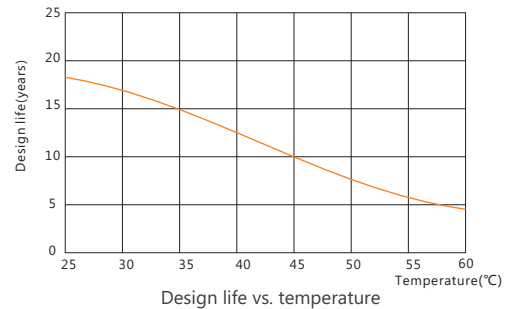
Charge capacity vs. charge time



Charge voltage vs. temperature



Temperature vs. capacity



Design life vs. temperature

Sacred Sun Power Sources Co., Ltd.

Add: No.1 Shengyang Road, Qufu 273100 PRC
Tel: +86-537-4422313 Fax: +86-537-4411980
Email: sales@sacredsunsun.cn

Sacred Sun Hong Kong Co., Limited

Add: RM 19C Lockhart CTR 301-307 Lockhart RD Wan Chai, Hong Kong
Email: admin.hk@sacredsunsun.hk

Sacred Sun Asia Pacific Pte Ltd.

Add: 1 Ubi View, #04-12, Focus One, Singapore 408555
Email: admin.sg@sacredsunsun.sg

Sacred Sun Europe SARL

Add: ZAE Fontaine, 33210 Fargues, France
Email: admin.eu@sacredsunsun.eu

Sacred Sun MEA FZE

Add: No. 311 office, Building LOB 14, JAFZA, Dubai, UAE
Email: admin.ae@sacredsunsun.ae

