

# GFM-C Series

## GFM-500C 2V500Ah

GFM-C series VRLA battery uses latest AGM technology, high purity raw materials and many patented technologies that ensure its long floating and cycle life, it is applicable to less frequency of power failure, and shallow discharge of depth site. It is mainly used for indoor telecommunication base station.



### Benefits

- Long life according to EUROBAT Classification
- High discharge performance
- 99%+ gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Horizontal installization

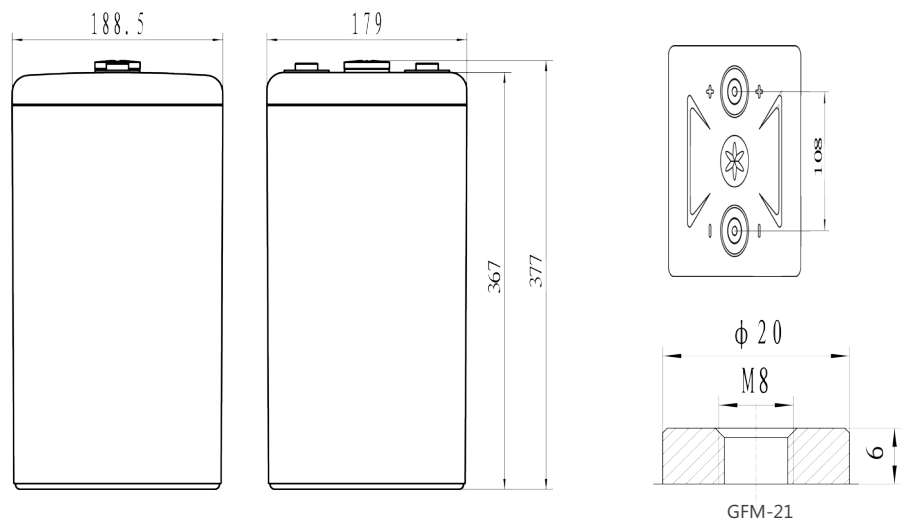
### Applications

- Telecommunications
- Power system
- UPS
- Emergency power

### Standards

- IEC 60896-21/22
- JIS C8704-1/2
- EUROBAT guide

### Drawing



### Specifications

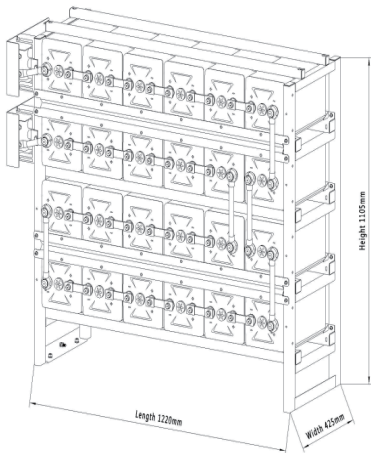
Battery Model	GFM-500C			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10HR (50A, 1.80V)	5HR (85A, 1.80V)	3HR (150A, 1.80V)	1HR 330A, 1.75V)
	500	425	375	275
Dimensions (mm)	Length	Width	Height	Total Height
	188.5	179	367	377
Approx. Weight (kg)	28.4			
Reference Internal Resistance (mΩ)	0.37 ( fully charged @ 25°C)			
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							
	5	10	15	20	30	40	50	1	1.5	2	3	5	8	10	24
1.60	760	700	655	590	480	440	375	340	266	196	145	99.0	68.0	55.0	24.2
1.65	710	655	610	550	445	400	350	320	245	188	140	95.0	66.0	54.0	23.8
1.70	645	590	540	500	410	365	330	300	228	180	135	91.0	64.0	52.8	23.4
1.75	585	520	470	430	375	335	300	275	210	170	130	88.0	62.0	51.5	22.7
1.80	500	460	420	390	340	305	275	250	196	160	125	85.0	60.0	50.0	22.1

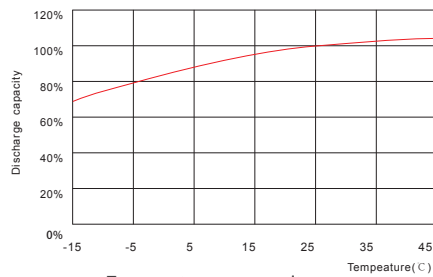
Constant Power Discharge Data (25°C, W/cell)															
End Voltage (V/cell)	min							h							
	5	10	15	20	30	40	50	1	1.5	2	3	5	8	10	24
1.60	1303	1214	1144	1035	847	781	668	608	479	356	265	183	127	104	46.4
1.65	1243	1159	1087	985	802	724	636	583	448	347	261	179	125	103	46.1
1.70	1153	1065	981	912	753	674	611	558	426	339	256	174	123	102	45.8
1.75	1067	957	870	799	702	630	566	520	399	325	250	171	121	101	44.7
1.80	926	860	789	736	645	581	525	479	376	309	243	166	118	98.5	43.8

## Rack Layout

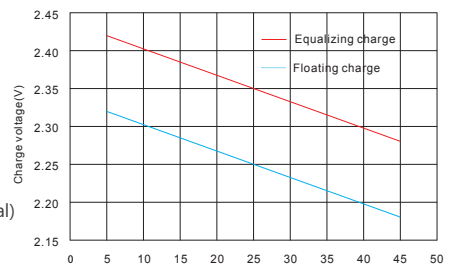


48V Standard Rack (Anti-seismic rack is optional)  
 Rack material: powder-coated steel  
 Height\*width: 6\*4\*6 (optional)  
 Ref. GFM-500C Rack (approx. weight: 805kg)

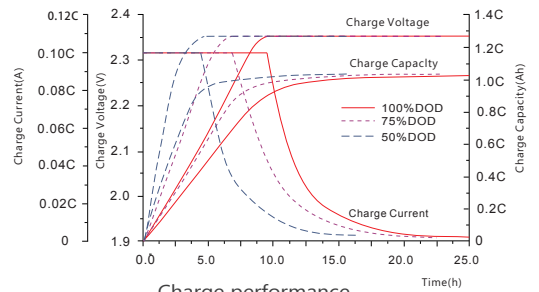
## Performance Curve



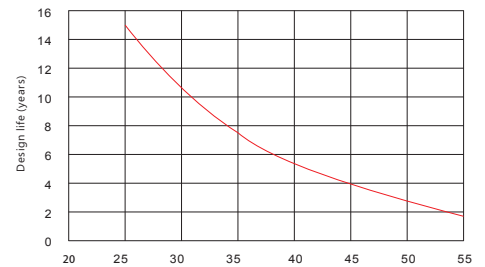
Temperature vs. capacity



Temperature vs. charge voltage



Charge performance



Design life vs. temperature

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