

# GFM-C Series

## GFM-300C 2V300Ah

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 installation

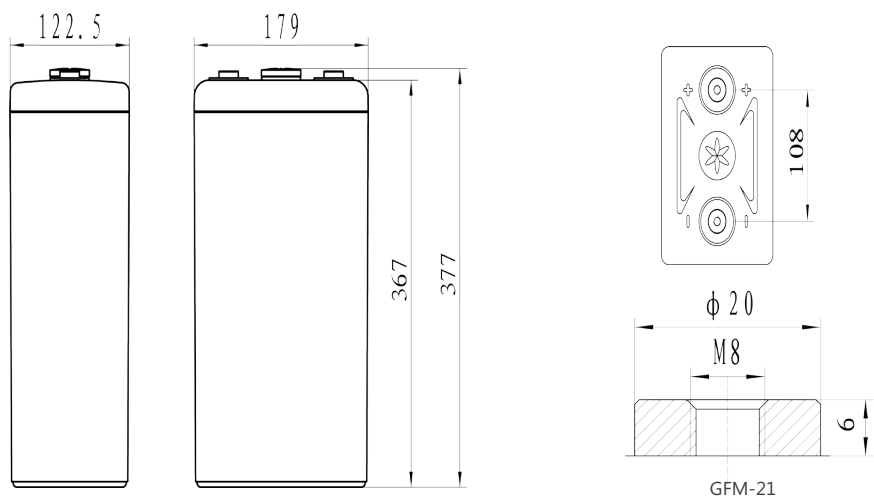
### Applications

- Telecommunications
- Power system
- UPS
- Emergency power

### Standards

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

### Drawing



### Specifications

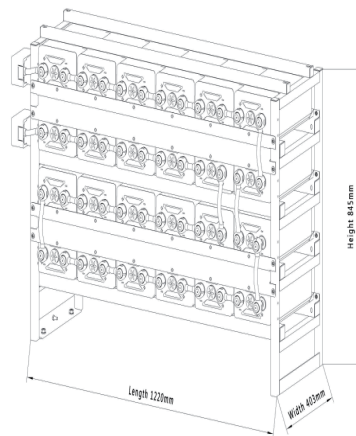
Battery Model	GFM-300C			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10HR (30A, 1.80V)	5HR (51A, 1.80V)	3HR (75A, 1.80V)	1HR (165A, 1.75V)
	300	255	225	165
Dimensions (mm)	Length	Width	Height	Total Height
	122.5	179	367	377
Approx. Weight (kg)	18.2			
Reference Internal Resistance (mΩ)	0.55 (fully charged @ 25°C)			
Maximum Discharge Current (A/3 Sec.)	1050			
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: 45A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3400			

## 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	456	420	393	354	288	264	225	204	160	118	87.0	59.4	40.8	33.0	14.5
1.65	426	393	366	330	267	240	210	192	147	113	84.0	57.0	39.6	32.4	14.3
1.70	387	354	324	300	246	219	198	180	137	108	81.0	54.6	38.4	31.7	14.0
1.75	351	312	282	258	225	201	180	165	126	102	78.0	52.8	37.2	30.9	13.6
1.80	300	276	252	234	204	183	165	150	118	96.0	75.0	51.0	36.0	30.0	13.3

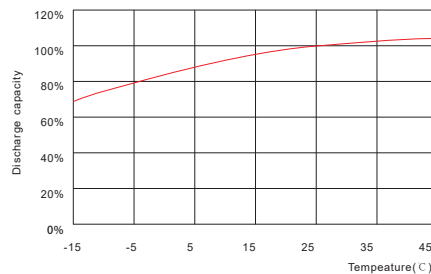
Constant Power Discharge Data (25°C, W/cell)															
End Voltage (V/cell)	min							h							
	5	10	15	20	30	40	50	1	1.5	2	3	5	8	10	24
1.60	782	728	686	621	508	469	401	365	287	213	159	110	76.5	62.2	27.8
1.65	746	696	652	591	481	434	382	350	269	208	156	107	75.3	61.9	27.7
1.70	692	639	588	547	452	404	367	335	256	203	154	104	74.1	61.3	27.5
1.75	640	574	522	480	421	378	339	312	239	195	150	102	72.5	60.4	26.8
1.80	556	516	474	442	387	349	315	287	226	186	146	100	70.6	59.0	26.3

## Rack Layout

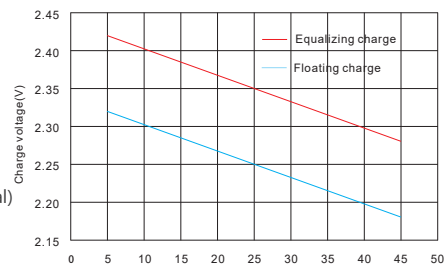


48V Standard Rack (Anti-seismic rack is optional)  
 Rack material: powder-coated steel  
 Height\*width: 6\*4/4\*6 (optional)  
 Ref. GFM-300C Rack (approx. weight: 484kg)

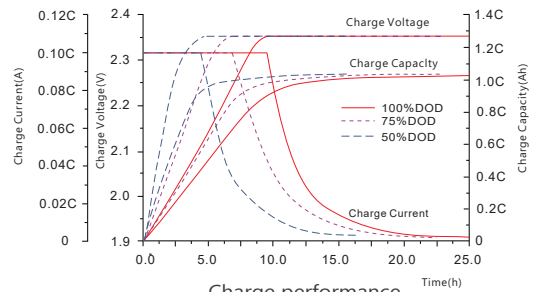
## Performance Curve



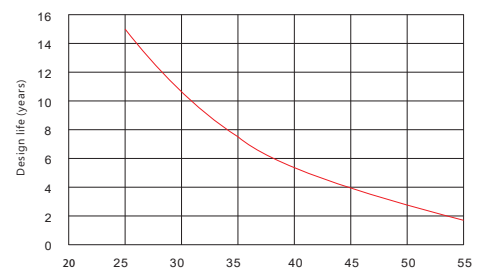
Temperature vs. capacity



Temperature vs. charge voltage



Charge performance



Design life vs. temperature

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