

# GFM-C Series

## GFM-100CL 2V100Ah

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

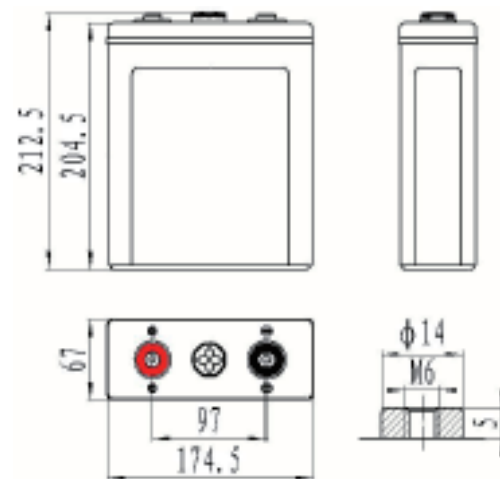
### Applications

- Telecommunications
- Power system
- UPS
- Emergency power

### Standards

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

### Drawing



### Specifications

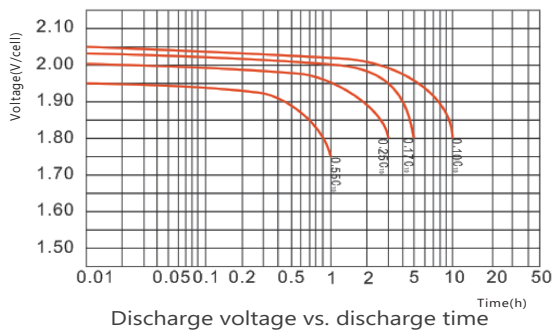
Battery Model	GFM-100CL			
Design Life (years, 25°C)	20			
Capacity (Ah, 25°C)	10HR (10A, 1.80V)	5HR (17A, 1.80V)	3HR (25A, 1.80V)	1HR (55A, 1.75V)
	100	85	75	55
Dimensions (mm)	Length	Width	Height	Total Height
	174.5	67	204.5	212.5
Approx. Weight (kg)	5.3			
Reference Internal Resistance (mΩ)	0.77 ±15% ( fully charged @ 25°C, Testing device: HIOKIBT3562)			
Self-Discharge (25°C)	≤ 2% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.40 (-3.5mV/°C/cell), max charge current: 25A		2.27 (-3.5mV/°C/cell)	
Short Circuit Current (A)	2700 (for reference only)			

## Discharge Data

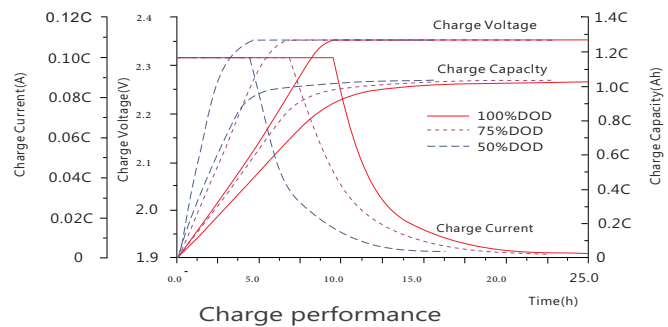
Constant Current Discharge Data (25°C, A)									
End Voltage (V/cell)	min		h						
	30	45	1	1.5	2	3	5	10	20
1.60	99.7	89.0	60.0	48.6	37.6	27.6	17.8	10.4	5.60
1.65	94.5	84.0	59.0	45.8	37.0	27.3	17.6	10.3	5.50
1.70	89.6	79.0	58.0	43.0	36.4	26.9	17.4	10.2	5.40
1.75	86.8	73.7	55.0	40.0	35.7	26.5	17.2	10.1	5.30
1.80	83.8	70.0	53.0	38.0	34.8	25.0	17.0	10.0	5.10

Constant Power Discharge Data (25°C, W/cell)									
End Voltage (V/cell)	min		h						
	30	45	1	1.5	2	3	5	10	20
1.60	200	158	120	91.4	65.8	51.0	36.5	22.0	11.0
1.65	188	152	115	86.8	62.7	48.3	34.5	21.0	10.7
1.70	180	146	108	83.3	59.2	46.0	32.5	19.7	10.0
1.75	173	137	106	80.0	57.5	43.8	30.5	18.5	9.80
1.80	167	132	102	77.0	55.7	41.8	28.0	16.7	9.10

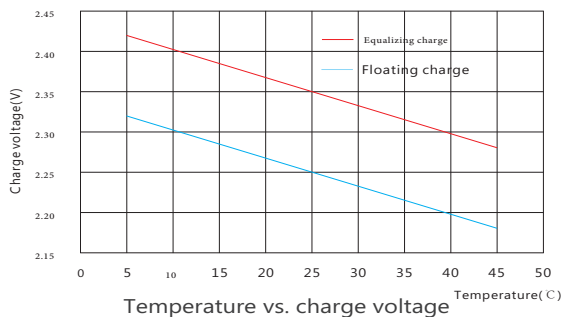
## Performance Curve



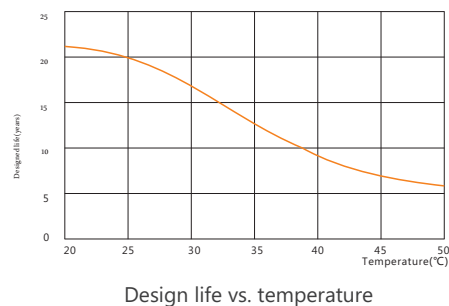
Discharge voltage vs. discharge time



Charge performance



Temperature vs. charge voltage



Design life vs. temperature

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