

# GFM-C Series

## GFM-150CL 2V 150Ah

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
- Vertical installation

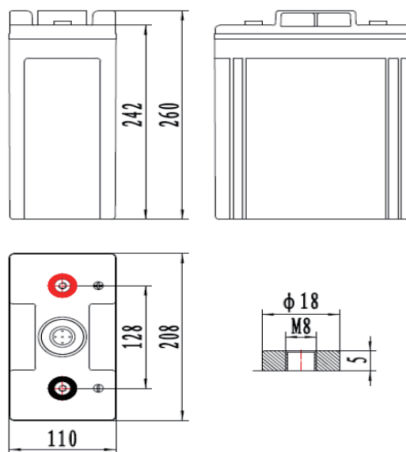
### Applications

- Telecommunications
- Power system
- UPS
- Emergency power

### Standards

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

### Drawing



### Specifications

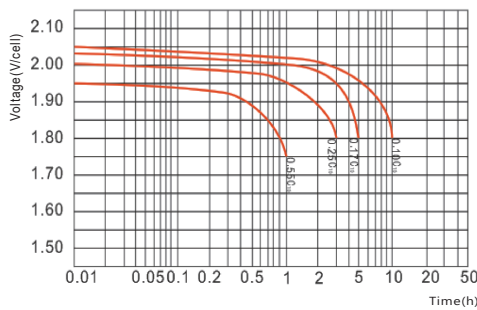
Battery Model	GFM-150CL			
Design Life (years, 25°C)	20			
Capacity (Ah, 25°C)	10HR (15A, 1.80V)	5HR (25.5A, 1.80V)	3HR (37.5A, 1.80V)	1HR (82.5A, 1.75V)
	150	127.5	112.5	82.5
Dimensions (mm)	Length	Width	Height	Total Height
	208	110	242	260
Approx. Weight (kg)	11.1			
Reference Internal Resistance (mΩ)	0.70 ±15% ( fully charged @ 25°C, Testing device: HIOKIBT3562)			
Self-Discharge (25°C)	≤ 2.0% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.35 (-3.5mV/°C/cell), max charge current: 22.5A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3050 (for reference only)			

## Discharge Data

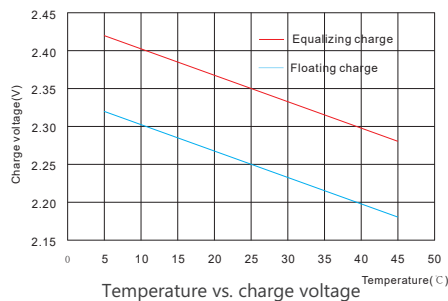
Constant Current Discharge Data (25°C, A)														
End Voltage (V/cell)	min			h										
	30	40	50	1	2	3	4	5	6	7	8	9	10	12
1.60	138	115	100	87.0	54.2	40.0	31.8	26.8	23.3	20.6	18.5	16.8	15.5	13.0
1.65	130	110	95.8	85.5	53.3	39.4	31.4	26.4	23.0	20.4	18.3	16.6	15.3	12.9
1.70	122	104	91.7	83.0	52.3	38.8	31.0	26.1	22.8	20.3	18.2	16.5	15.2	12.8
1.75	118	102	89.6	82.5	51.4	38.2	30.6	25.8	22.5	20.1	18.0	16.3	15.1	12.7
1.80	114	98.2	86.9	78.6	50.2	37.5	30.2	25.5	22.2	19.8	17.8	16.1	15.0	12.6

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	232	194	172	153	98.4	73.1	58.3	49.5	43.5	39.2	35.6	32.5	29.7	25.2
1.65	215	183	163	148	95.0	71.1	57.0	48.6	42.6	38.7	35.2	32.1	29.2	24.9
1.70	201	174	155	144	92.5	69.6	56.0	48.0	42.1	38.2	34.7	31.7	28.9	24.6
1.75	188	163	148	137	90.1	68.2	54.9	47.1	41.6	37.8	34.3	31.2	28.6	24.4
1.80	177	154	142	131	87.7	66.8	53.9	46.3	40.9	37.1	33.8	30.8	28.3	24.1

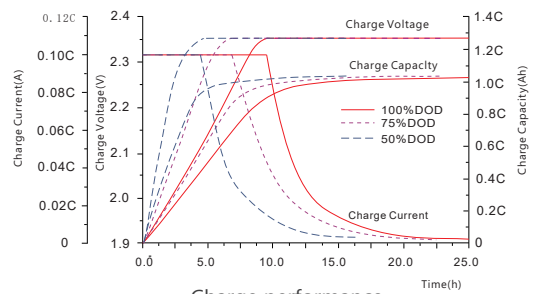
### Performance Curve



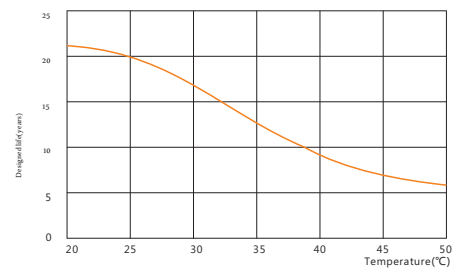
Discharge voltage vs. discharge time



Temperature vs. charge voltage



Charge performance



Design life vs. temperature

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