

GFM-C Series

GFM-400CL 2V 400Ah

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

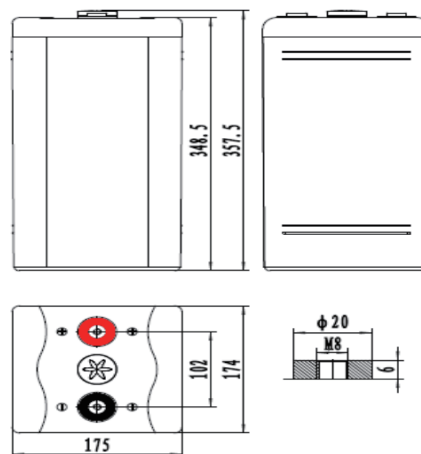
Applications

- Telecommunications
- Power system
- UPS
- Emergency power

Standards

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

Drawing



Specifications

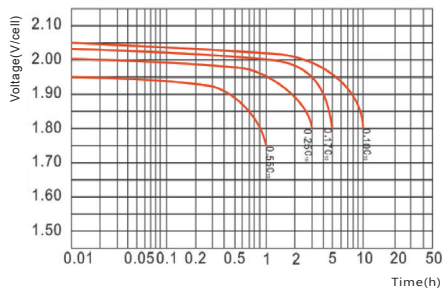
Battery Model	GFM-400CL			
Design Life (years, 25°C)	20			
Capacity (Ah, 25°C)	10HR (40A, 1.80V)	5HR (68A, 1.80V)	3HR (100A, 1.80V)	1HR (220A, 1.75V)
	400	340	300	220
Dimensions (mm)	Length	Width	Height	Total Height
	175	174	348.5	357.5
Approx. Weight (kg)	24.6			
Reference Internal Resistance (mΩ)	0.34 ±15% (fully charged @ 25°C, Testing device: HIOKIBT3562)			
Self-Discharge (25°C)	≤ 2.0% per months			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.35 (-3.5mV/°C/cell), max charge current: 60A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	4900 (for reference only)			

Discharge Data

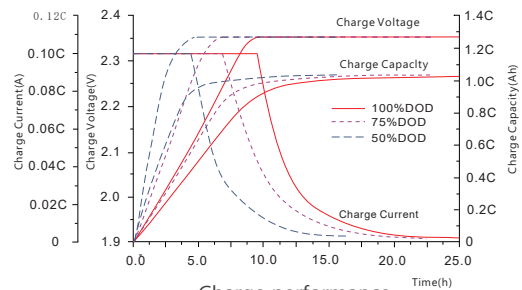
Constant Current Discharge Data (25°C, A)														
End Voltage (V/cell)	min			h										
	30	40	50	1	2	3	4	5	6	7	8	9	10	12
1.60	367	307	266	232	144	107	84.9	71.3	62.1	54.9	49.4	44.8	41.2	34.6
1.65	346	293	255	228	142	105	83.9	70.5	61.4	54.5	48.9	44.3	40.9	34.4
1.70	326	278	245	221	139	104	82.8	69.7	60.8	54.0	48.4	43.9	40.5	34.1
1.75	315	271	239	220	137	102	81.7	68.8	60.1	53.5	48.0	43.5	40.3	33.8
1.80	303	262	232	210	134	100	80.5	68.0	59.3	52.8	47.4	43.0	40.0	33.5

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	618	518	458	408	262	195	156	132	116	105	94.9	86.8	79.3	67.2
1.65	574	488	436	394	253	190	152	130	114	103	93.8	85.5	77.9	66.4
1.70	536	463	412	383	247	186	149	128	112	102	92.6	84.5	77.2	65.7
1.75	502	435	394	365	240	182	147	126	111	101	91.4	83.2	76.1	65.0
1.80	471	411	379	348	234	178	144	123	109	99.0	90.2	82.1	75.3	64.3

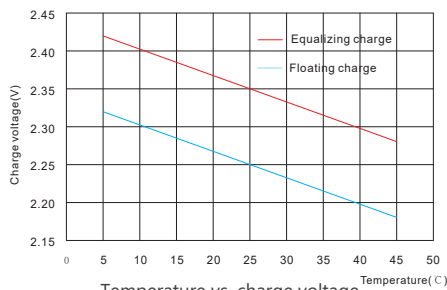
Performance Curve



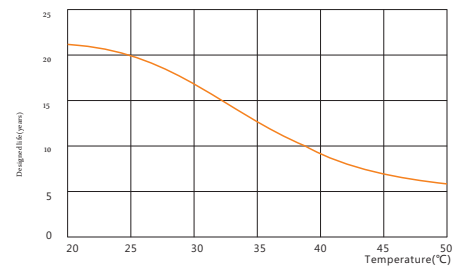
Discharge voltage vs. discharge time



Charge performance



Temperature vs. charge voltage



Design life vs. temperature

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