



GFM-C Series

GFM-400C (2V400Ah)

GFM-C series VRLA batteries use the latest AGM technology, high-purity raw materials, and various patented technologies to ensure a long floating and cycle life. These batteries are ideal for applications with stable networks with low depths of discharge. They are primarily used for indoor telecommunication base stations.



Benefits

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

Applications

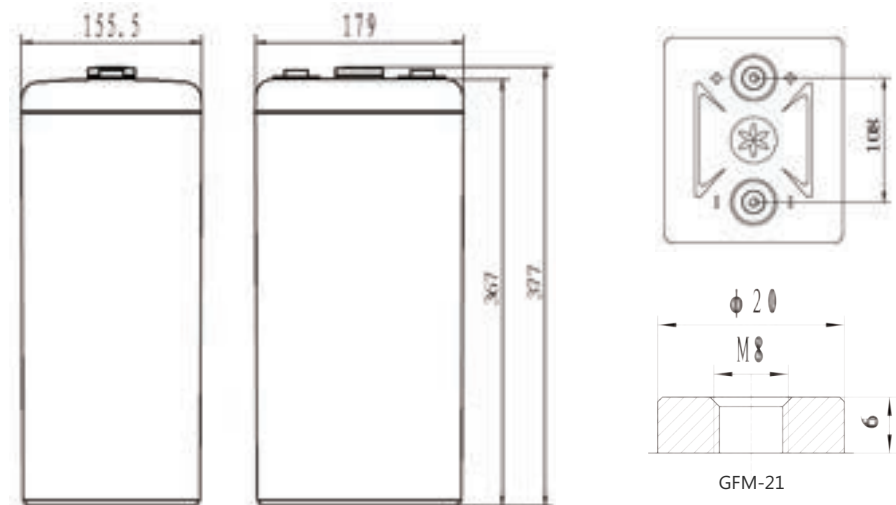
- Telecommunications
- Power system
- UPS
- Emergency power

Standards

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

Specifications

Drawing



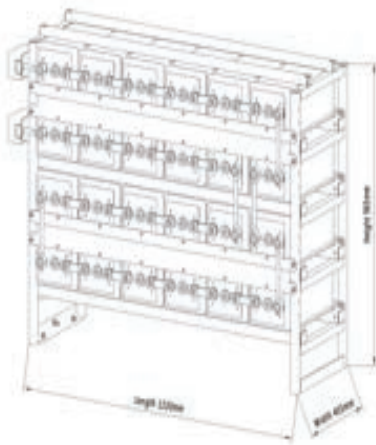
Battery Model	GFM-400C			
Design Life (years, 25°C)	15			
Capacity (Ah, 25°C)	10HR (40A, 1.80V)	5HR (68A, 1.80V)	3HR (100A, 1.80V)	1HR (220A, 1.75V)
	400	340	300	220
Dimensions (mm)	Length	Width	Height	Total Height
	155.5	179	367	377
Approx. Weight (kg)	23.3			
Reference Internal Resistance (mΩ)	0.45 (fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	1400			
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: 60A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	4600			

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	608	560	524	472	384	352	300	272	213	157	116	79.2	54.4	44.0	19.4
1.65	568	524	488	440	356	320	280	256	196	150	112	76.0	52.8	43.2	19.0
1.70	516	472	432	400	328	292	264	240	182	144	108	72.8	51.2	42.2	18.7
1.75	468	416	376	344	300	268	240	220	168	136	104	70.4	49.6	41.2	18.2
1.80	400	368	336	312	272	244	220	200	157	128	100	68.0	48.0	40.0	17.7

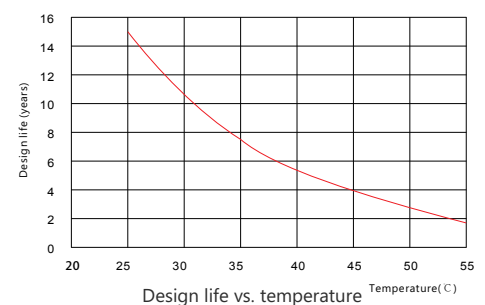
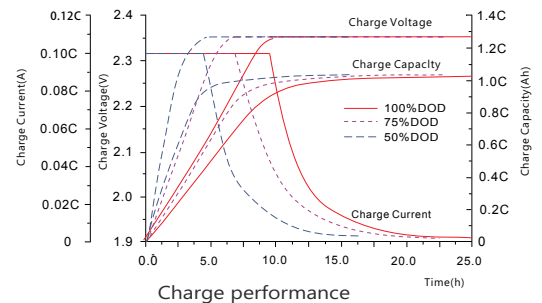
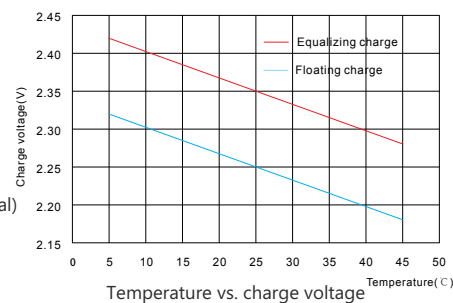
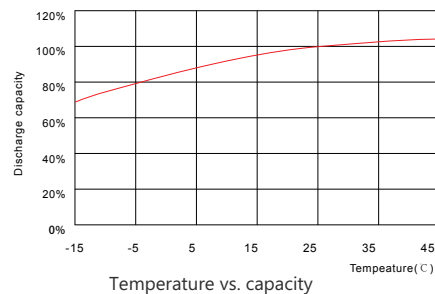
Constant Power Discharge Data (25°C, W/cell)															
End Voltage (V/cell)	min							h							
	5	10	15	20	30	40	50	1	1.5	2	3	5	8	10	24
1.60	1042	971	915	828	678	625	535	487	383	284	212	147	102	83.0	37.1
1.65	994	928	870	788	641	579	509	467	359	278	208	143	102	82.5	36.9
1.70	922	852	785	730	602	539	489	446	341	271	205	139	798.8	81.8	36.6
1.75	853	766	696	640	561	504	453	416	319	260	200	136	96.7	80.5	35.8
1.80	741	688	632	589	516	465	420	383	301	247	194	133	94.2	78.7	35.0

Rack Layout



48V Standard Rack (Anti-seismic rack is optional)
 Rack material: powder-coated steel
 Height*width: 6*4/4*6 (optional)
 Ref. GFM-400C Rack (approx. weight: 617kg)

Performance Curve



Disclaimer: The manufacturer reserves the right to amend and/or vary the specifications and parameters of the product and apply updates accordingly at any time. It is the sole responsibility of the buyer and user of the product to ensure all applicable product specifications referred to are valid, applicable and up to date at all times. All product specifications are available upon written request to Alpha House Ltd. All batteries must be installed, used and maintained at all times in accordance with standard BS EN IEC 62485-2:2018, and specifically installed, used and maintained at all times in accordance with manufacturer's guidelines and product specification documentation. (All top terminal, front terminal and top vented batteries must be positioned horizontally, plumb and level at all times unless specified otherwise by the manufacturer. Further details are available upon written request to Alpha House Ltd.)