



# GFMG Series

## GFMG-275 (2V275Ah)

GFMG VRLA are a large capacity high power battery that uses AGM technology. It has a wide & low structure design with low level of electrolyte stratification. GFMG has an excellent high current and high power discharge performance. It is suitable for floating and cyclic applications.



### Benefits

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

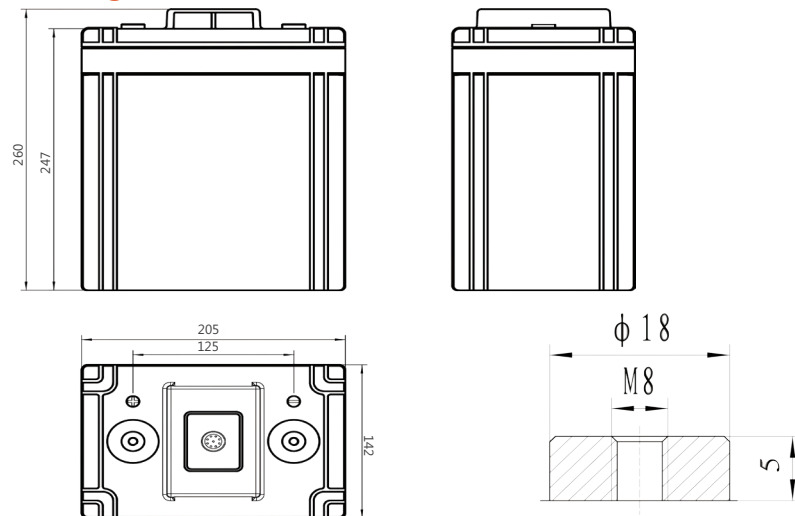
### Applications

- Telecommunications
- Emergency power
- UPS units
- Electrical Power plants and substation
- Transportation

### Standards

- IEC 60896-21/22
- BS 6290-4
- EUROBAT guide

### Drawing



GFM-30

### Specifications

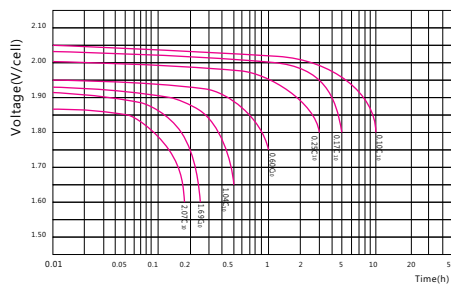
Battery Model	GFMG-275			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10HR (27.5A, 1.80V)	5HR (48.2A, 1.80V)	3HR (72.4A, 1.80V)	1HR(165A, 1.75V)
	275	241	217.2	165
Dimensions (mm)	Length	Width	Height	Total Height
	142	205	242	260
Approx. Weight (kg)	18.1			
Reference Internal Resistance (mΩ)	0.52 ( full charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	1500			
Self-Discharge (25°C)	< 1% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.35 (-3.5mV/°C/cell), max charge current: 41.25A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3600			

## Discharge Data

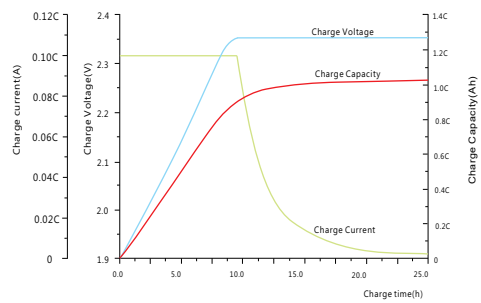
Constant Current Discharge Data (25°C, A)														
End Voltage (V/cell)	min							h						
	5	10	15	20	30	40	50	1	1.5	2	3	5	8	10
1.60	751	571	465	394	303	245	205	175	133	107	76.9	50.5	34.9	28.5
1.65	683	523	430	367	286	234	197	172	130	105	75.8	49.9	34.6	28.2
1.67	654	502	414	355	278	228	193	170	129	105	75.4	49.6	34.5	28.2
1.70	623	480	398	342	269	222	188	167	127	104	74.7	49.4	34.3	28
1.75	545	442	374	326	260	216	184	165	125	102	73.5	48.7	34	27.8
1.80	479	409	353	311	250	209	178	158	121	99.3	72.4	48.2	33.6	27.5

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
1.60	1094	926	768	669	510	413	353	309	238	195	141	93.4	67.2	54.8
1.65	1005	841	704	617	474	389	335	298	229	188	137	91.8	66.4	53.8
1.67	950	811	682	601	457	379	326	294	226	186	136	91.4	66.1	53.6
1.70	887	770	655	577	442	369	317	289	223	183	134	90.6	65.6	53.3
1.75	795	712	610	537	414	347	303	276	217	178	131	88.9	64.7	52.6
1.80	730	653	559	494	389	328	292	263	210	174	129	87.3	63.9	51.8

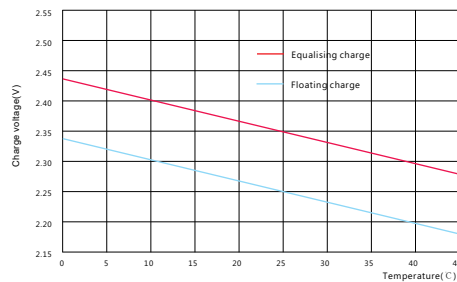
## Performance Curve



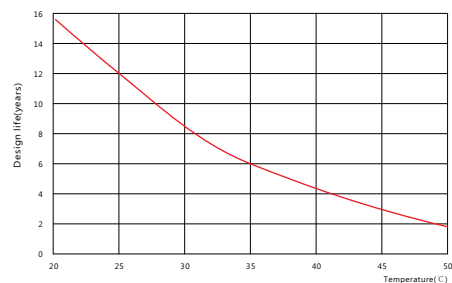
Discharge voltage vs. discharge time



Charge capacity vs. charge time



Charge capacity vs. temperature



Design life vs. temperature



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.)