



GFMG Series

3GFMG-125 (6V125Ah)



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

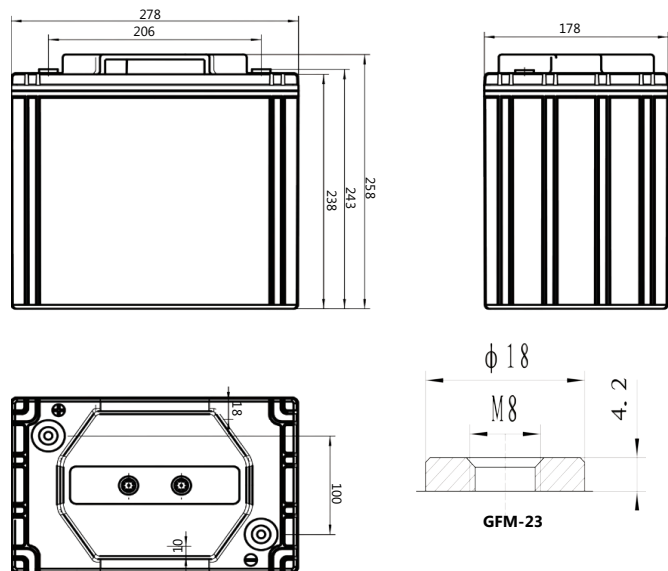
- Telecommunications
- Emergency power
- UPS units
- Electrical Power plants and substation
- Transportation

Standards

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

Specifications

Drawing



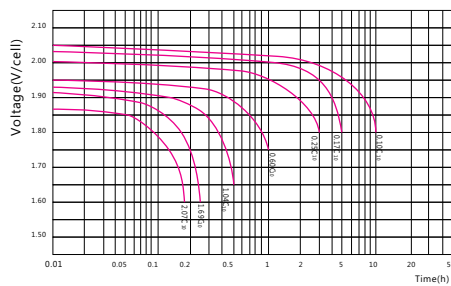
Battery Model	3GFMG-125			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10HR (12.5A, 1.80V)	5HR (21.56A, 1.80V)	3HR (32.15A, 1.80V)	1HR(76.87A, 1.75V)
	125	107.8	96.45	76.87
Dimensions (mm)	Length	Width	Height	Total Height
	278	178	238	258
Approx. Weight (kg)	25.5			
Reference Internal Resistance (mΩ)	2.63 (full charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	1000			
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: 21A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	2280			

Discharge Data

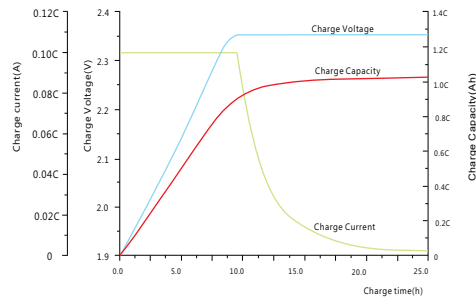
Constant Current Discharge Data (25°C, A)														
End Voltage (V/cell)	min							h						
	5	10	15	20	30	40	50	1	1.5	2	3	5	8	10
1.60	376.6	304.8	248.6	204.0	146.3	116.0	96.30	83.76	62.00	50.00	35.00	22.50	15.84	12.89
1.65	339.8	273.4	230.6	189.8	141.5	114.2	93.40	81.33	61.00	49.00	34.34	22.22	15.59	12.81
1.67	325.3	264.6	222.9	184.3	139.5	113.0	92.13	80.32	60.00	48.00	34.00	22.16	15.52	12.80
1.70	309.5	254.7	214.4	178.0	136.9	111.8	90.50	78.98	59.00	47.00	33.52	22.02	15.39	12.73
1.75	282.2	234.5	197.4	166.4	132.6	107.5	88.00	76.87	58.00	46.00	32.84	21.77	15.19	12.66
1.80	259.4	216.8	184.0	156.8	127.4	102.0	84.90	74.42	56.00	44.00	32.15	21.56	15.00	12.50

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	629.7	514.1	419.5	351.6	264.5	218.0	186.0	157.2	122.10	92.08	65.83	44.14	29.81	24.66
1.65	593.8	487.5	404.4	339.7	257.9	217.0	183.0	155.2	120.50	90.80	65.00	43.76	29.70	24.59
1.67	573.7	474.1	395.3	334.0	255.2	216.0	182.0	154.2	119.79	90.31	64.75	43.62	29.70	24.60
1.70	551.4	458.8	384.7	327.0	251.5	215.0	181.0	152.5	118.60	89.46	64.25	43.31	29.58	24.52
1.75	511.5	421.9	357.8	314.5	243.8	212.0	179.0	150.3	116.70	87.89	63.58	42.73	29.38	24.45
1.80	462.2	387.8	337.8	301.6	235.2	206.0	177.0	147.7	114.60	86.25	62.75	42.03	29.22	24.37

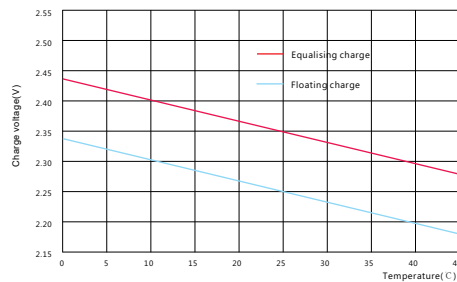
Performance Curve



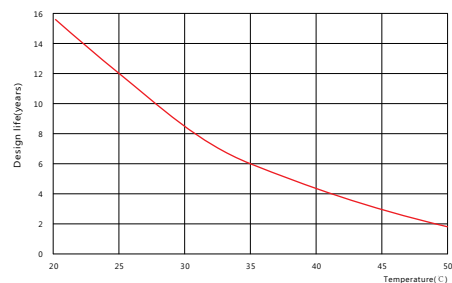
Discharge voltage vs. discharge time



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.)