

GFMG Series

3GFMG-200(K) 6V200Ah

GFMG VRLA large capacity high power battery uses AGM technology. It has wide & low structure design with low level of electrolyte stratification. GFMG has 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
- Battery material ABS

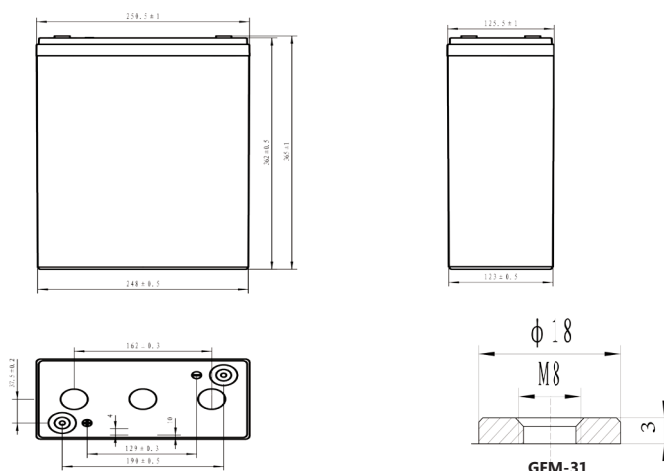
Applications

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

Standards

- IEC 60896-21/22
- JISC 8707
- BS 6290-4
- YD/T 799
- GB/T 19638.2
- DL/T 637
- EUROBAT guide

Drawing



Specifications

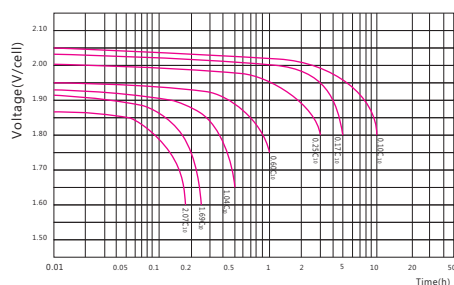
Battery Model	3GFMG-200(K)			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10HR (20.0A, 1.80V)	5HR (36.7A, 1.80V)	3HR (51.88A, 1.80V)	1HR(136.3A, 1.75V)
	200	107.8	155.64	136.3
Dimensions (mm)	Length	Width	Height	Total Height
	250.5	125.5	362	365
Approx. Weight (kg)	33.7			
Reference Internal Resistance (mΩ)	1.55 (full charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	1400			
Self-Discharge (25°C)	≤1% per month			
Operating temperature range:	Charge: -20°C - +50°C	Discharge: -20°C - +50°C		Storage: -20°C - +50°C
Charge Voltage (V/monobloc, 25°C)	Cycle use		Float use	
	7,2 (-3.5mV/°C/cell), max charge current: 50A		6.81 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3850			

Discharge Data

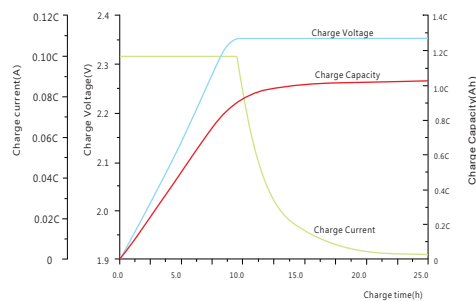
Constant Current Discharge Data (25°C, A)														
End Voltage (V/cell)	min							h						
	5	10	15	20	30	40	50	1	3	4	5	8	10	12
1.60	690.0	500.1	381.9	320.1	237.5	190.0	160.7	142.00	61.03	53.05	40.66	26.53	20.74	19.03
1.65	649.0	469.5	362.9	306.3	231.3	187.0	157.7	140.00	60.35	52.12	40.36	25.45	20.63	18.88
1.67	610.1	455.0	355.2	301.6	229.1	183.0	156.8	139.40	59.19	51.69	39.88	25.28	20.46	18.60
1.70	568.7	438.7	346.1	295.6	225.9	180.0	155.2	138.30	58.73	50.39	39.23	25.02	20.43	18.05
1.75	515.0	408.2	331.6	285.0	219.6	177.0	152.2	136.30	58.05	48.19	38.93	24.95	20.32	17.80
1.80	485.0	383.2	316.2	273.9	213.3	174.0	149.4	134.50	57.00	45.90	38.50	24.78	20.20	17.14
1.85	455.3	358.0	300.8	262.7	205.3	171.0	146.3	131.70	54.80	43.40	37.82	23.80	19.21	16.19

Constant Power Discharge Data (25°C, W/cell)														
End Voltage (V/cell)	min							h						
	5	10	15	20	30	40	50	1	3	4	5	8	10	12
1.60	1180	840.0	676.0	555.0	435.0	355.0	301.6	270.0	155.0	108.6	74.00	48.50	40.83	33.16
1.65	1112	811.1	652.4	542.6	424.6	349.0	297.0	267.2	153.3	107.3	73.28	47.97	40.23	32.68
1.67	1082	797.1	641.7	534.4	419.7	347.0	295.1	266.1	152.9	106.9	73.03	47.85	40.09	32.09
1.70	1048	780.0	628.4	524.1	413.2	342.0	292.0	264.0	151.8	106.1	72.48	47.53	39.79	31.76
1.75	985.9	740.8	604.4	507.8	404.5	335.0	287.1	260.2	150.4	105.0	71.59	46.83	39.19	31.62
1.80	930.0	703.0	577.7	487.5	396.3	330.0	282.8	257.0	149.0	104.0	70.50	46.30	38.60	31.03
1.85	867.9	674.1	564.4	475.1	389.8	324.0	278.2	253.2	147.9	102.7	69.61	45.77	38.12	30.44

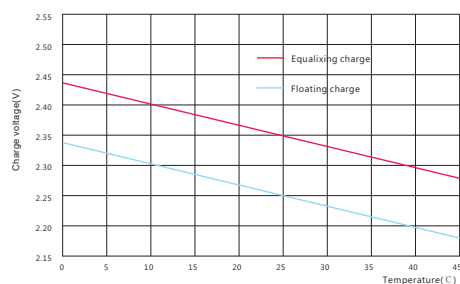
Performance Curve



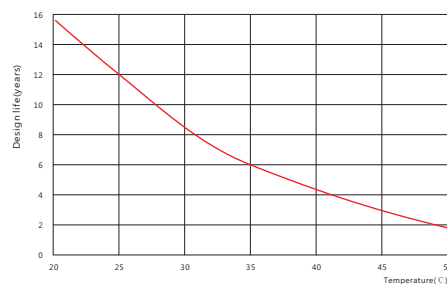
Discharge voltage vs. discharge time



Charge capacity vs. charge time



Charge capacity vs. temperature



Design life vs. temperature

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