

GFMG Series

GFMG-455 2V455Ah

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

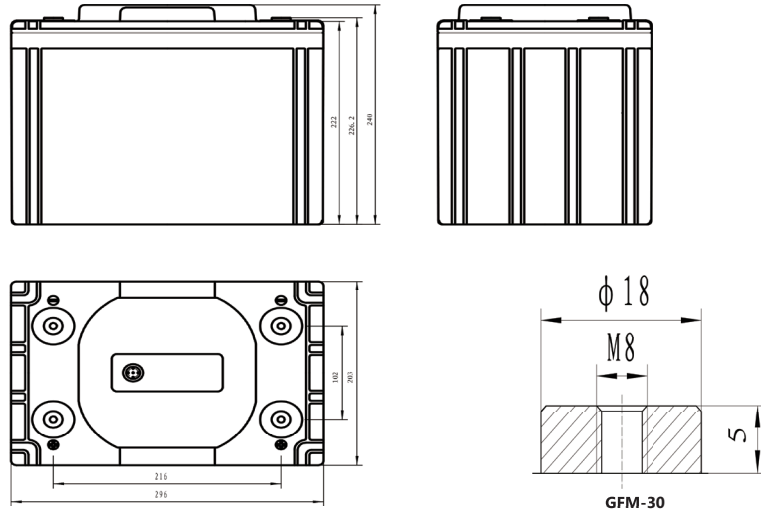
Applications

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

Standards

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

Drawing



Specifications

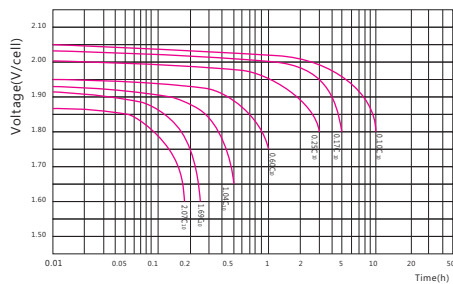
Battery Model	GFMG-455			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10HR (45.5A, 1.80V)	5HR (79.7A, 1.80V)	3HR (120A, 1.80V)	1HR(273A, 1.75V)
	455	398.5	360	273
Dimensions (mm)	Length	Width	Height	Total Height
	296	203	222	240
Approx. Weight (kg)	32.6			
Reference Internal Resistance (mΩ)	0.40 (full charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	2500			
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: 68.25A		2.25 (-3.5mV/°C/cell)	
Short Circuit Current (A)	5200			

Discharge Data

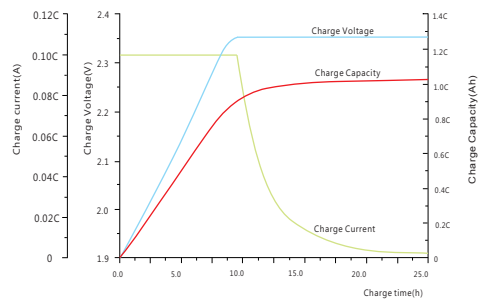
Constant Current Discharge Data (25°C, A)														
End Voltage (V/cell)	min							h						
	5	10	15	20	30	40	50	1	1.5	2	3	5	8	10
1.60	1242	945	770	652	501	406	339	290	221	177	127	83.6	57.8	47.1
1.65	1129	865	711	607	472	386	325	285	215	174	125	82.6	57.2	46.7
1.67	1082	831	686	588	460	377	319	282	213	173	125	82.1	57.1	46.6
1.70	1031	794	658	566	445	367	312	277	210	171	124	81.7	56.7	46.3
1.75	902	731	619	539	430	357	305	273	207	168	122	80.6	56.2	46.0
1.80	792	677	585	514	414	346	295	262	201	164	120	79.7	55.6	45.5

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	1810	1532	1271	1108	843	684	584	511	394	322	233	155	111	90.6
1.65	1663	1391	1165	1021	784	644	555	493	379	311	226	152	110	89.0
1.67	1572	1342	1128	994	755	627	540	487	374	307	225	151	109	88.7
1.70	1468	1274	1083	955	731	610	525	479	369	303	222	150	109	88.2
1.75	1315	1178	1010	888	686	574	501	456	359	295	217	147	107	87.0
1.80	1208	1081	925	818	643	542	483	436	348	287	213	145	106	85.7

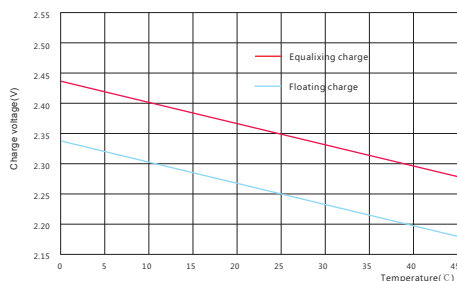
Performance Curve



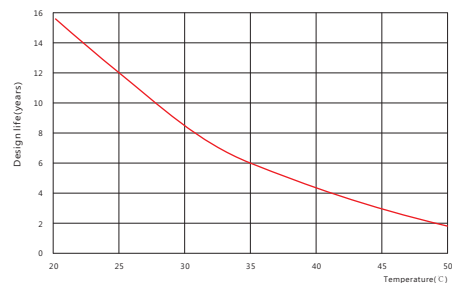
Discharge voltage vs. discharge time



Charge capacity vs. charge time



Charge capacity vs. temperature



Design life vs. temperature

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