

# GFMG Series

## 3GFMG-105 6V105Ah

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

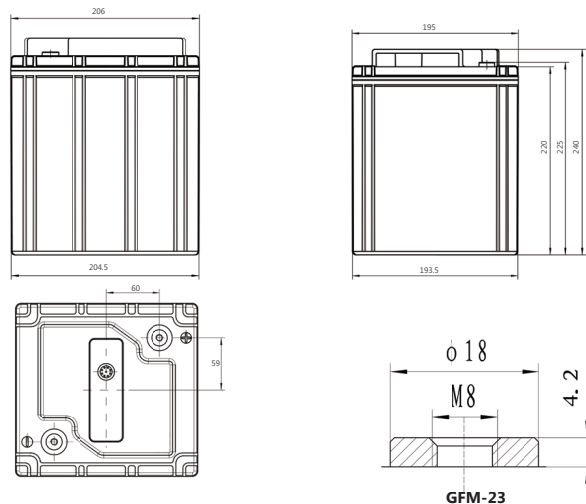
### Applications

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

### Standards

- IEC 60896-21/22
- BS 6290-4
- EUROBAT guide
- Installation compliant with EN50272-2

### Drawing



### Specifications

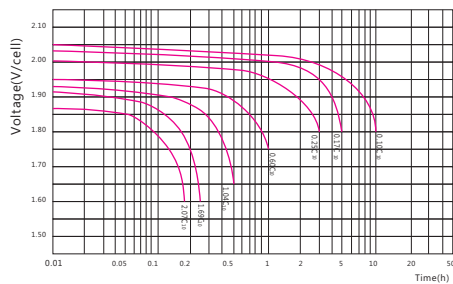
Battery Model	3GFMG-105			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10HR (10.5A, 1.80V)	5HR (17.13A, 1.80V)	3HR (28.2A, 1.80V)	1HR(71A, 1.75V)
	105	85.65	84.6	71
Dimensions (mm)	Length	Width	Height	Total Height
	195	206	220	240
Approx. Weight (kg)	22.4			
Reference Internal Resistance (mΩ)	2.62 ( full charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	945			
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)	2400			

## Discharge Data

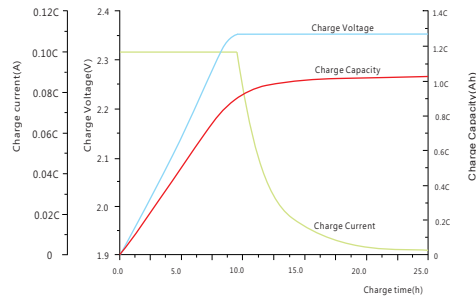
Constant Current Discharge Data (25°C, A)														
End Voltage (V/cell)	min							h						
	5	10	15	20	30	40	50	1	1.5	2	3	5	8	10
1.60	316.0	254.8	210.0	171.7	125.0	105.0	88.00	75.00	56.05	45.31	30.50	18.90	12.86	10.88
1.65	290.3	239.6	197.7	163.4	121.0	103.0	87.00	74.00	55.25	44.63	30.20	18.47	12.75	10.79
1.67	276.2	232.0	193.4	158.8	118.8	101.0	86.00	73.50	54.90	44.29	29.80	18.28	12.71	10.76
1.70	261.0	223.4	188.3	153.6	116.2	100.0	85.00	73.00	54.33	43.78	29.50	18.02	12.62	10.69
1.75	239.8	207.6	174.9	146.3	111.4	97.00	81.50	71.00	53.47	42.97	29.00	17.57	12.50	10.60
1.80	222.0	192.5	166.2	138.4	106.4	93.20	77.00	68.00	52.45	41.99	28.20	17.13	12.38	10.50

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	537.0	430.0	353.0	293.3	217.0	191.6	156.0	138.0	101.0	78.50	54.57	37.50	24.87	20.61
1.65	502.7	411.3	339.8	281.8	211.4	187.2	153.0	136.8	100.0	77.30	54.17	37.06	24.74	20.53
1.67	490.2	402.7	333.5	277.3	209.2	185.4	152.0	136.3	99.5	77.00	54.05	36.90	24.71	20.54
1.70	475.8	392.4	325.8	271.6	206.1	182.9	151.0	135.2	99.0	76.40	53.71	36.60	24.58	20.47
1.75	442.6	373.3	311.1	262.0	199.7	177.8	148.0	133.5	97.0	75.20	53.21	36.09	24.44	20.41
1.80	410.0	350.7	297.6	251.1	193.0	172.5	145.0	131.7	94.0	74.10	52.70	35.60	24.33	20.34

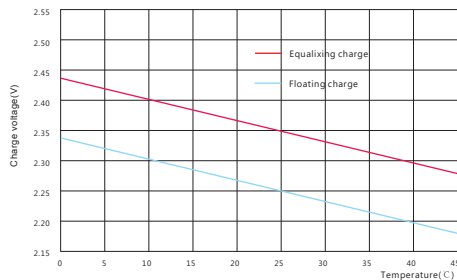
## Performance Curve



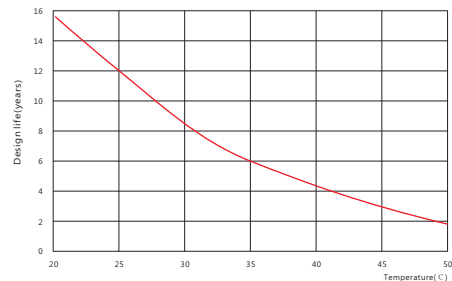
Discharge voltage vs. discharge time



Charge capacity vs. charge time



Charge capacity vs. temperature



Design life vs. temperature

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