



GFM Series-Battery

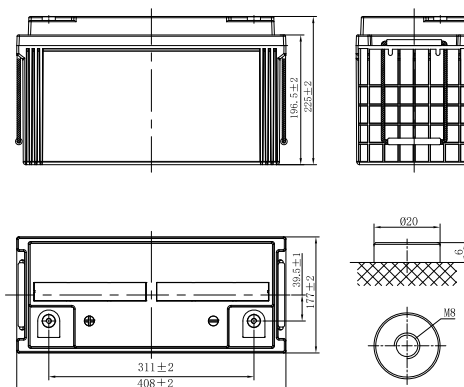
6GFM-120L (12V120Ah)

Specifications of 6GFM-120L

Rated Voltage	12V	
Nominal Capacity	C ₁₀ , 1.75V/cell	120Ah
Dimension	Length	408±3mm (16.14inches)
	Width	177±2mm (6.97 inches)
	Container Height	225±2mm (8.86 inches)
	Total Height	225±2mm (8.86 inches)
Approx Weight	37.0kg (81.4 lbs)	
Terminal	T11	
Container Material	ABS(UL94 V-0 option)	
Rated Capacity(25°C)	124.8 Ah	C20(6.24A, 1.75V/cell)
	120.0 Ah	C1(12.0A, 1.75V/cell)
	104.5 Ah	C5(20.9A, 1.75V/cell)
	92.1 Ah	C3(30.7A, 1.75V/cell)
	78.1 Ah	C1(78.1A, 1.60V/cell)
Max. Discharge Current	1300A (5s)	
Internal Resistance(25°C)	Approx 4.0mΩ	
Short Circuit Current	3500A (1s)	
Operating Temp. Range	Discharge	-20 ~ 50°C(-4 ~ 122°F)
	Charge	-20 ~ 40°C(-4 ~ 104°F)
	Storage	-15 ~ 40°C(5 ~ 104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Standby Use	Initial Charging Current less than 36.0AVoltage	
	2.23V~2.25V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Cycle Use	Initial Charging Current less than 36.0AVoltage	
	2.35V~2.50V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	65%
	0°C (32°F)	86%
Self Discharge	GFMseries batteries may be stored for up to 6 months	
	at 25°C(77°F) and then a freshening charge is required.	
	For higher temperatures the time interval will be shorter.	



Layout



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	193.7	163.7	140.4	104.2	75.8	60.1	36.5	28.0	23.0	19.5	17.0	13.7	11.5	6.15
1.80V/cell	216.0	181.0	151.9	111.1	81.0	64.4	39.3	30.0	24.3	20.5	17.8	14.3	12.0	6.24
1.75V/cell	236.9	194.4	161.6	117.6	85.3	68.0	40.8	30.7	24.8	20.9	18.1	14.5	12.0	6.24
1.70V/cell	257.8	209.3	172.1	123.6	89.6	71.5	42.4	31.7	25.4	21.3	18.4	14.7	12.2	6.41
1.65V/cell	278.6	222.7	181.8	130.1	93.9	74.9	43.6	32.5	26.1	21.7	18.8	14.9	12.4	6.47
1.60V/cell	305.3	236.6	191.9	137.3	98.2	78.1	45.2	33.3	26.6	22.2	19.1	15.1	12.5	6.54

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	357.8	305.4	264.7	198.5	145.8	116.0	71.0	54.7	45.1	38.3	33.4	27.0	22.8	12.2
1.80V/cell	394.3	333.1	282.2	208.6	154.4	123.6	75.9	58.2	47.3	39.9	34.9	28.1	23.7	12.3
1.75V/cell	425.5	353.5	297.3	218.9	161.1	129.9	78.4	59.2	48.1	40.7	35.4	28.4	23.9	12.5
1.70V/cell	452.5	375.2	314.2	228.8	168.6	136.2	81.3	61.1	49.2	41.4	35.9	28.8	24.1	12.7
1.65V/cell	484.7	396.3	329.4	238.8	175.2	141.5	83.1	62.4	50.2	42.1	36.5	29.2	24.4	12.8
1.60V/cell	518.9	414.1	343.9	250.3	182.2	146.9	85.8	63.6	51.2	42.7	37.0	29.5	24.6	12.9



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Applications

- Telecommunications
- UPS system
- Wind power system
- Engine starting
- Wheelchair, Floor cleaning machines, Golf trolley, Boats

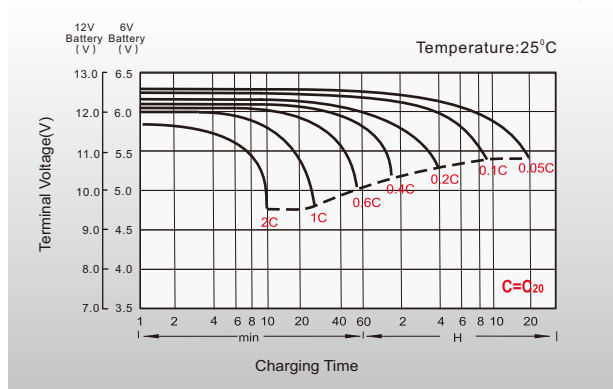
General Features

- Battery design life up to 12 years
- Special plate design guarantees battery floating life more than 1800 times
- High thermal capacity reduce the risk of thermal out of control and drying hard, and the battery can be used in bad environment
- Little water losing, and no electrolyte stratification phenomenon

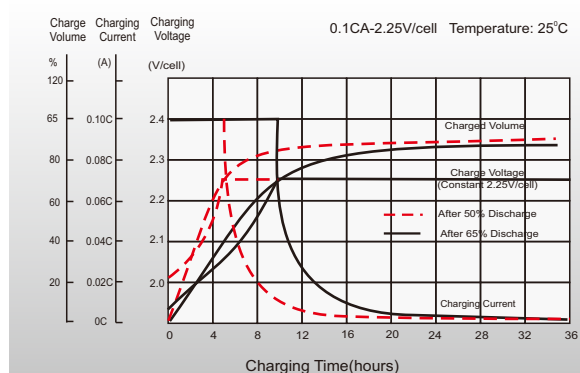
Standards

- IEC 60896 Certified
- Classified as "Long Life"
- ISO 9001 Certified
- Manufactured in standard IATF16949,

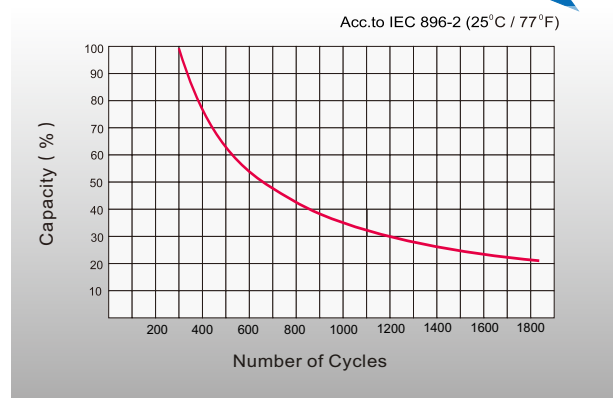
Discharge Characteristics



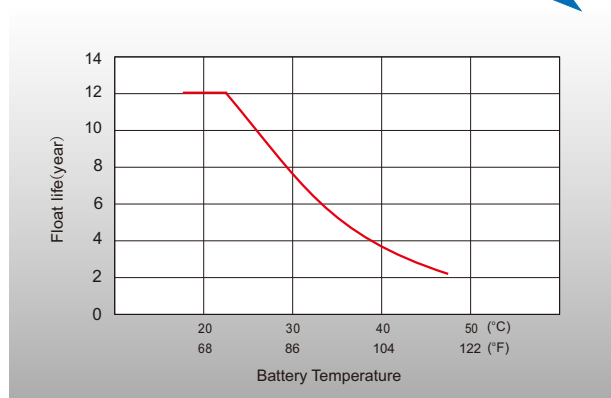
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



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