



Marstech

GFM Series - Battery

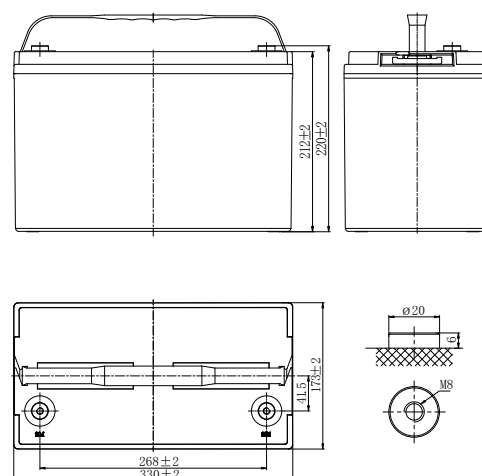
6GFM-100L (12V100Ah)

Specifications of 6GFM-100L

Rated Voltage	12V	
Nominal Capacity	C ₁₀ , 1.80V/cell	100Ah
Dimension	Length	330±3mm (12.99inches)
	Width	173±2mm (6.81 inches)
	Container Height	212±2mm (8.35 inches)
	Total Height	220±2mm (8.66 inches)
Approx Weight	30.4kg (67.0 lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity(25°C)	104.0 Ah	C20(5.20A, 1.80V/cell)
	100.0 Ah	C10(10.0A, 1.80V/cell)
	88.0 Ah	C5(17.6A, 1.75V/cell)
	76.2 Ah	C3(25.4A, 1.75V/cell)
	65.1 Ah	C1(65.1A, 1.60V/cell)
Max. Discharge Current	1200A (5s)	
Internal Resistance(25°C)	Approx 4.9mΩ	
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 30.0AVoltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Cycle Use	Initial Charging Current less than 30.0AVoltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	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	148.8	132.4	117.0	88.4	65.7	53.0	31.3	23.5	19.2	16.4	14.4	11.6	9.65	5.13
1.80V/cell	171.0	147.2	126.6	94.2	69.6	55.9	33.1	24.6	20.2	17.2	15.0	12.0	10.0	5.20
1.75V/cell	192.0	158.8	134.7	99.0	72.7	58.0	34.4	25.4	20.7	17.6	15.3	12.2	10.1	5.29
1.70V/cell	208.8	171.6	143.4	104.6	76.0	60.4	35.3	26.0	21.2	17.9	15.6	12.4	10.2	5.34
1.65V/cell	225.0	185.6	151.5	110.0	79.2	63.0	36.3	26.7	21.7	18.3	15.9	12.6	10.3	5.40
1.60V/cell	246.0	197.2	159.9	115.8	82.4	65.1	37.5	27.6	22.2	18.6	16.2	12.7	10.5	5.45

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	274.9	247.1	220.5	168.5	126.4	102.2	60.8	45.7	37.5	32.2	28.2	22.9	19.1	10.2
1.80V/cell	312.2	271.0	235.1	176.8	132.7	107.2	63.8	47.7	39.2	33.6	29.4	23.7	19.8	10.3
1.75V/cell	344.9	288.7	247.8	184.3	137.3	110.8	66.0	49.1	40.1	34.3	29.9	24.0	19.9	10.5
1.70V/cell	366.5	307.7	261.8	193.6	143.0	115.0	67.6	50.1	41.0	34.8	30.4	24.3	20.1	10.5
1.65V/cell	391.4	330.2	274.5	201.9	147.7	119.1	69.2	51.3	41.8	35.3	30.8	24.6	20.3	10.6
1.60V/cell	418.2	345.1	286.6	211.1	152.9	122.4	71.1	52.7	42.6	35.9	31.3	24.8	20.5	10.7



GFM Series-Battery

6GFM-100L (12V100Ah)

Applications

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

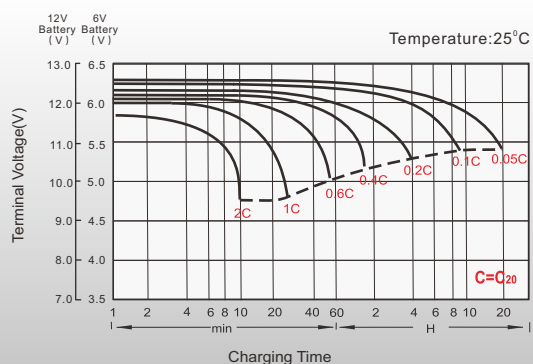
General Features

- 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

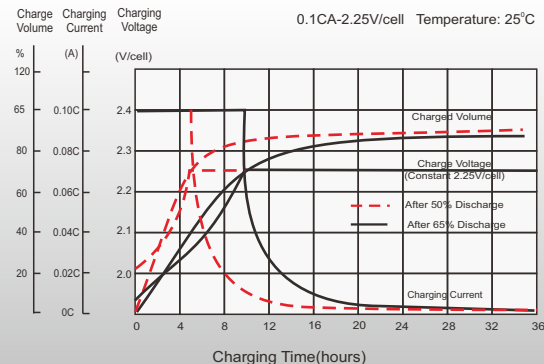
Standards

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

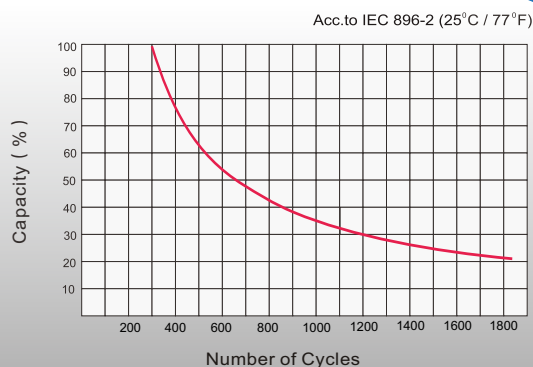
Discharge Characteristics



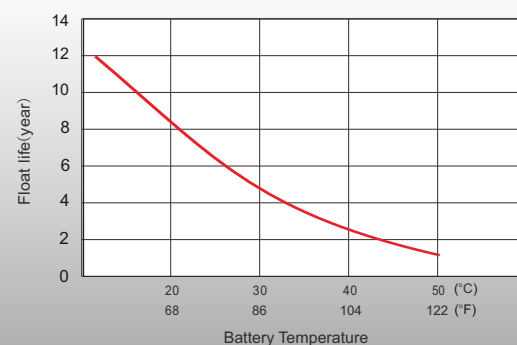
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



Sales Office

Head Office in MARSTECH SYSTEMS PTE LTD
Block 24, Sin Ming Lane #05-107 Midview City
Singapore

Manufacture in ANHUI LEOCH POWER SUPPLY CORP
No.1,Yingchun Road, Suixi Economic Development Zone,
Suixi Country, Huaibei City, Anhui Province.
P.R.China

Manufacture in LEOCH ACCUPOWER (M) SDN BHD
Lot 13338 & 2493, Jalan Sukeppi, Kawasan Perindustrian,
Jenjarom 42600 Kuala Langat, Selangor Darul Ehsan.
Malaysia