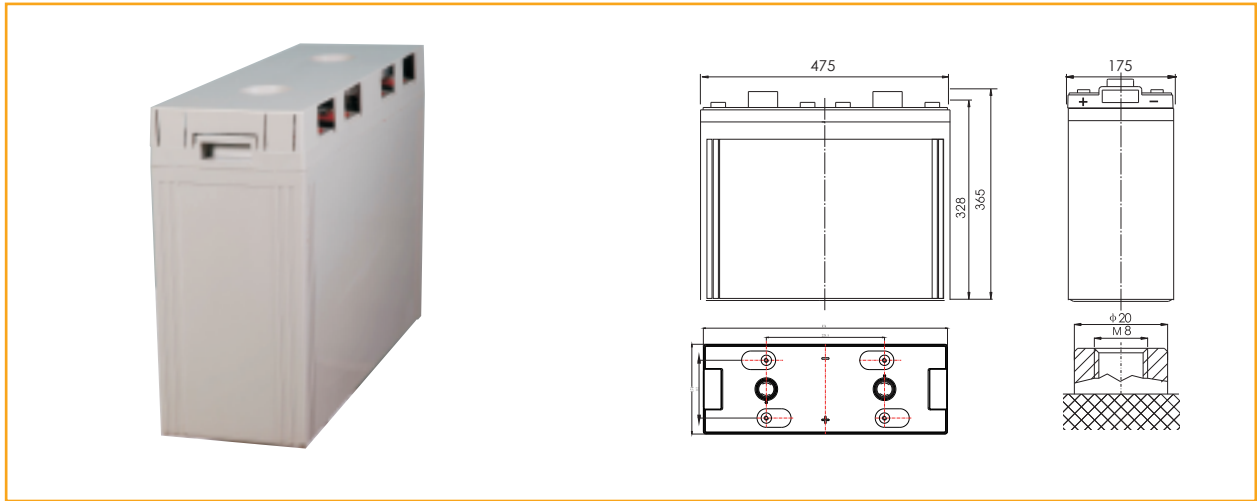


GFM1000

GFM
For Long Life Standby Use



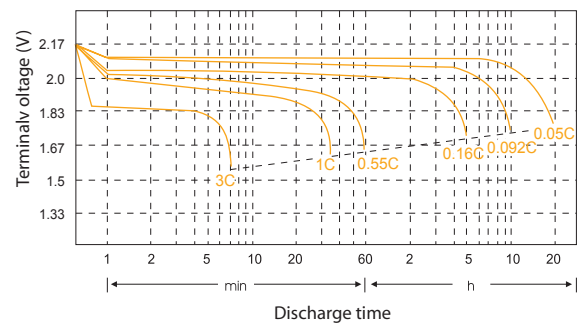
Specifications

Nominal Voltage		2V
Rated Capacity (20 hour rate)		1000Ah
Dimensions	Total Height (with terminals)	14.38 inches(365mm)
	Height	12.92 inches(328mm)
	length	18.71 inches(475mm)
	width	6.89 inches(175mm)
Weight		Approx.121Pound(55kg)

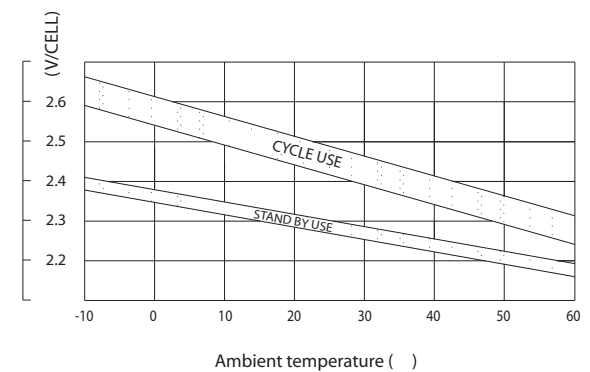
Characteristics

Capacity 77°F (25 °C)	10 hour rate (100A)	1000 Ah
	5 hour rate (180A)	900 Ah
	1hour rate (600A)	600 Ah
Internal Resistance	Full charged Battery 77°F (25 °C)	0.2 M
	104°F (40 °C)	102%
Capacity affected by Temperature (20hour rate)	77°F (25 °C)	100%
	0 °F (0 °C)	85%
	5°F (-15 °C)	65%
Self-Discharge 77°F (25 °C)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	81%
	Capacity after 12 month storage	60%
Max. Discharge Current 77°F (25 °C)	7000A(5S)	
Terminal	M3	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 200A Voltage 2.40~2.45 V / 77°F (25 °C)
	Float	Voltage 2.23~2.27V / 77°F (25 °C)

Discharge Curves 77°F(25°C)



Relationship between charge voltage and temperature



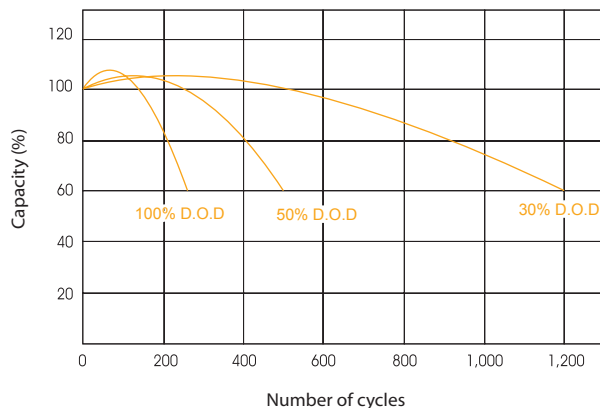
Constant Current Discharge (AMPERES @25°C)

F.V/Time	5Min	10Min	15Min	30Min	1Hour	3Hour	5Hour	10Hour	20Hour
1.60	2163	1682	1383	935	550	256	195	106	57.1
1.70	1933	1538	1299	878	510	250	187	103	55.1
1.80	1704	1417	1210	799	468	242	180	100	53.2

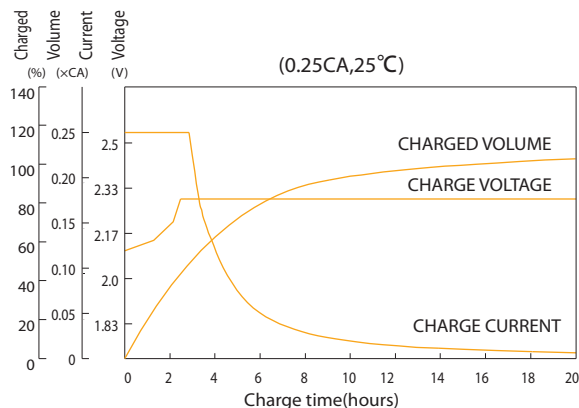
Constant Power Discharge (WATTS PER CELL@25°C)

Cut off voltage V/cell	5Min	10Min	15Min	30Min	1Hour	3Hour	5Hour	10Hour	20Hour
1.60	3774	3012	2500	1700	1180	530	358	200	106
1.70	3436	2840	2402	1640	1108	524	350	198	104
1.80	3178	2710	2326	1538	1034	519	344	196	102

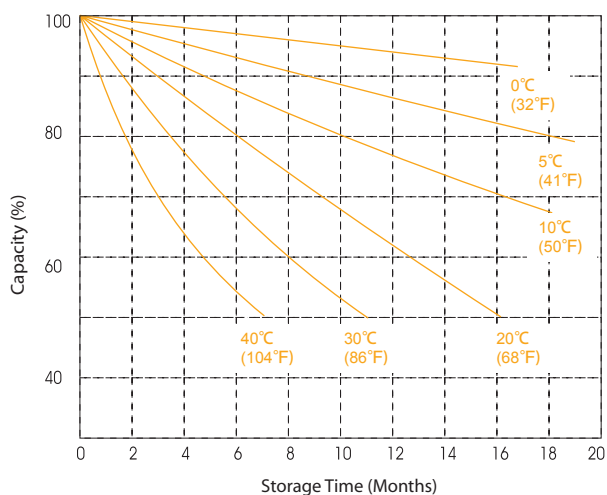
Cycle service life in relation to depth of discharge



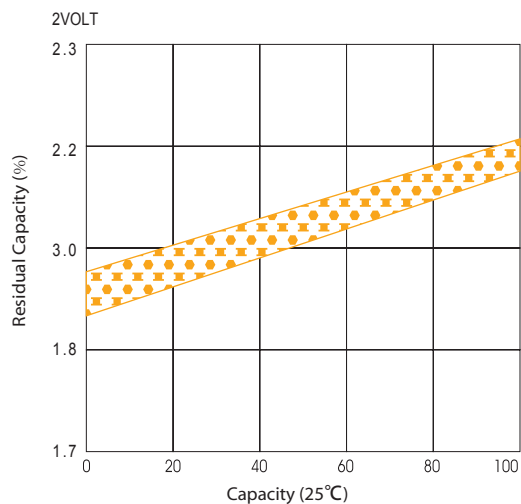
Constant voltage charge characteristic



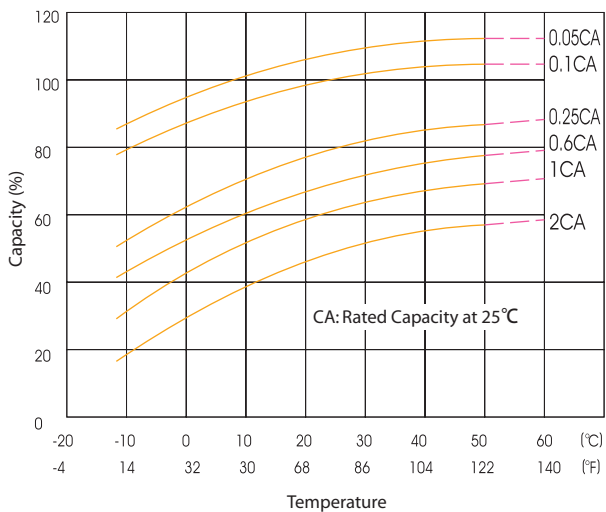
Self-Discharge Characteristics



Relationship of OCV and Residual Capacity % (25°C)



Temperature effects on capacity



Temperature effects float life

