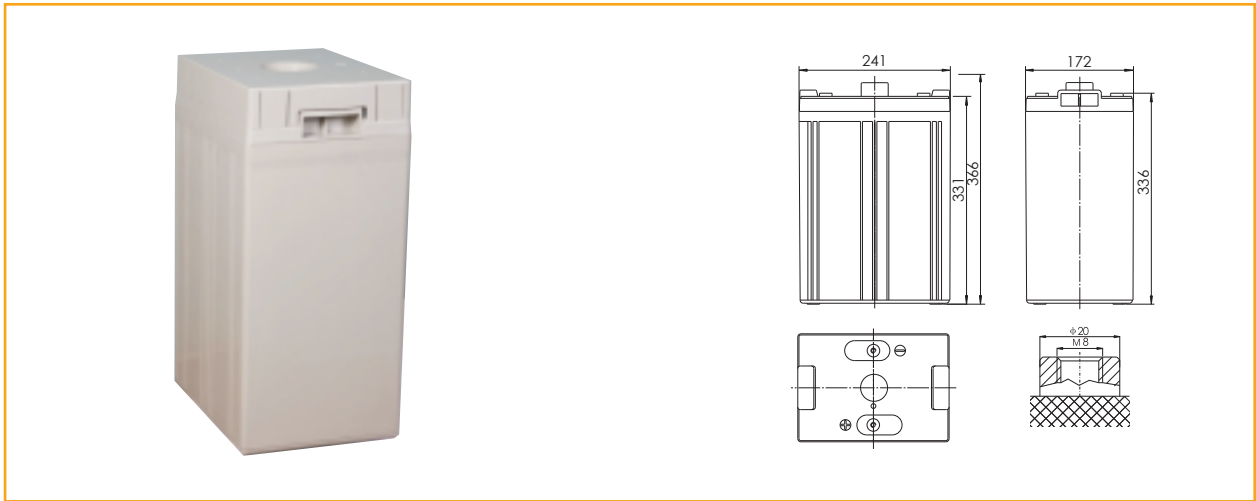


GFM500

GFM
For Long Life Standby Use



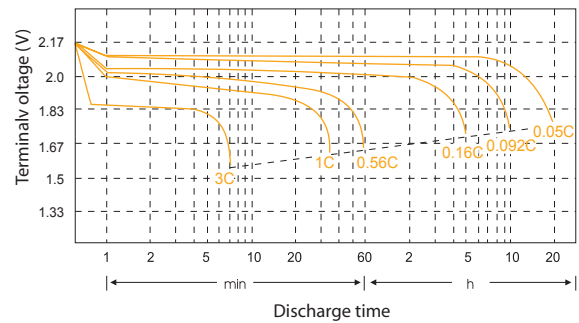
Specifications

Nominal Voltage		2V
Rated Capacity (20 hour rate)		500Ah
Dimensions	Total Height (with terminals)	14.41 inches(366mm)
	Height	13.03 inches(331mm)
	length	9.49 inches(241mm)
	width	6.77 inches(172mm)
Weight		Approx.63.8 Pound(29.0kg)

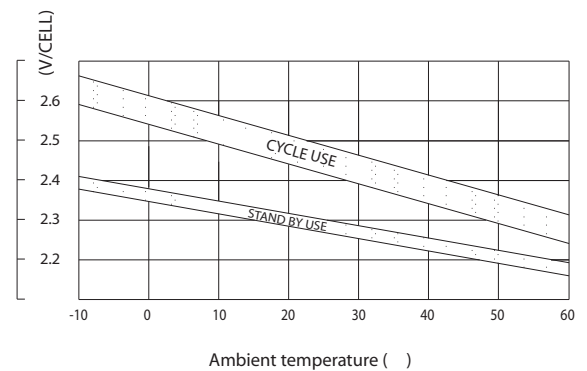
Characteristics

Capacity 77°F (25 °C)	10 hour rate (50.0A)	500 Ah
	5 hour rate (90A)	450 Ah
	1hour rate (300A)	300 Ah
Internal Resistance	Full charged Battery 77°F (25 °C)	0.5 M
Capacity affected by Temperature (20hour rate)	104°F (40 °C)	102%
	77°F (25 °C)	100%
	°F (0 °C)	85%
Self-Discharge 77°F (25 °C)	5°F (-15 °C)	65%
	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)	3500A(5S)	
Terminal	M3	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 100A 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



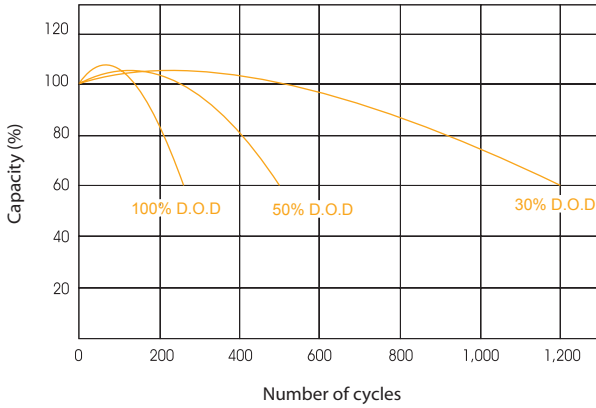
Constant Current Discharge (AMPERES @25°C)

F.V/Time	5Min	10Min	15Min	30Min	1Hour	3Hour	5Hour	10Hour	20Hour
1.60	1082	841	691	467	275	128	97.1	52.9	28.6
1.70	966	769	650	439	255	125	93.7	51.5	27.5
1.80	852	709	605	399	234	121	89.7	50.0	26.6

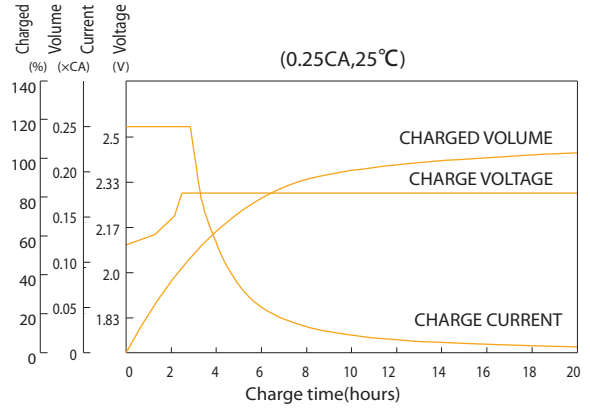
Constant Power Discharge (WATTS PER CELL@25°C)

Cut off voltage V/cell	5Min	10Min	15Min	30Min	1Hour	3Hour	5Hour	10Hour	20Hour
1.60	1888	1506	1250	850	590	265	179	100	53.0
1.70	1718	1420	1201	820	554	263	175	99.0	52.0
1.80	1589	1355	1163	769	516	260	171	98.0	51.0

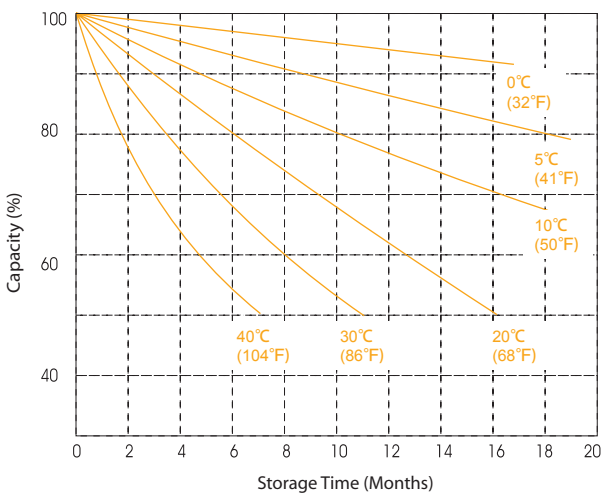
Cycle service life in relation to depth of discharge



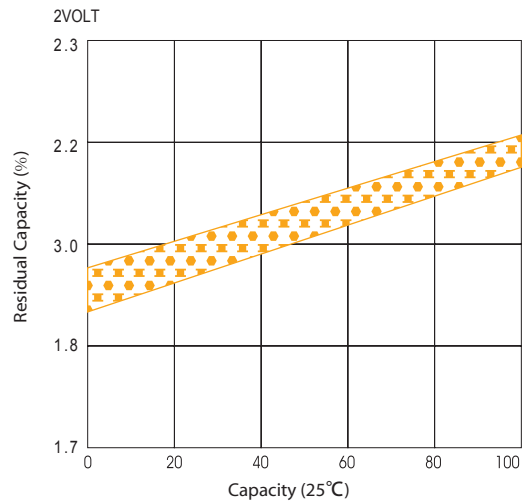
Constant voltage charge characteristic



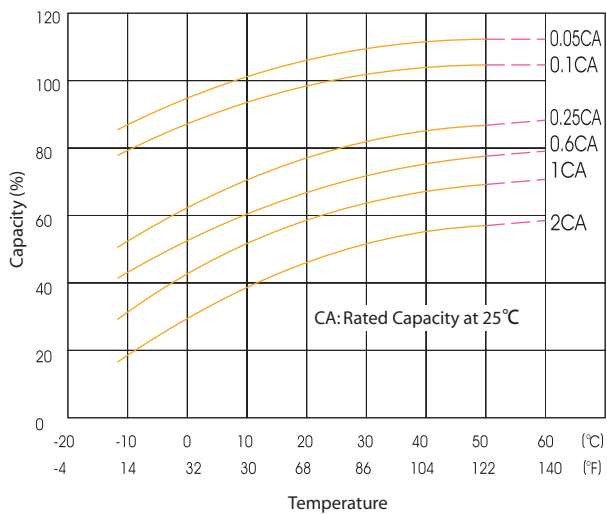
Self-Discharge Characteristics



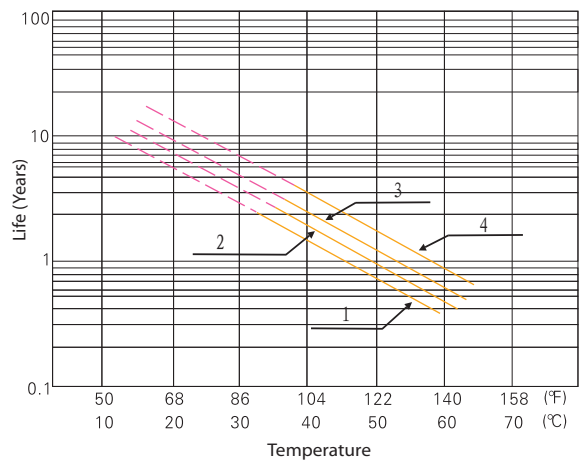
Relationship of OCV and Residual Capacity % (25°C)



Temperature effects on capacity



Temperature effects float life



1----- For FM series
2----- For FML series
3----- For FMH series
4----- For GFM series