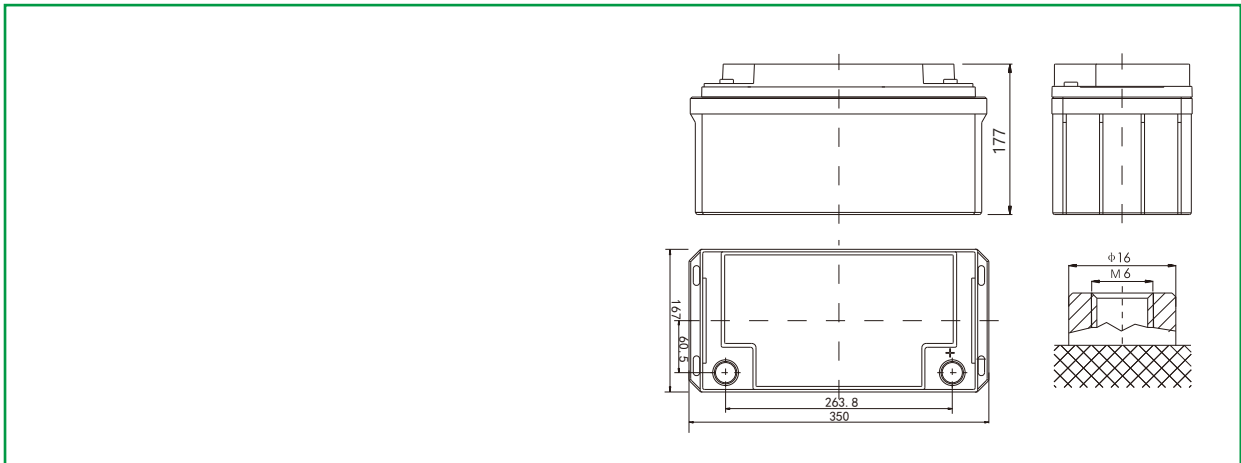


6-FM-65

FM Series
Battery For General Use



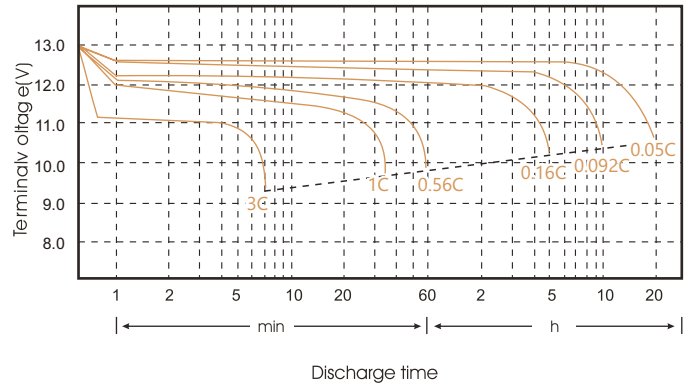
Specifications

Nominal Voltage		12V
Rated Capacity(20 hour rate)		65Ah
Dimensions	Total Height (with terminals)	6.97inches (177mm)
	Height	6.97inches (177mm)
	Length	13.8inches (350mm)
	Width	6.57inches (167mm)
Weight		Approx. 43.78pound(19.9kg)

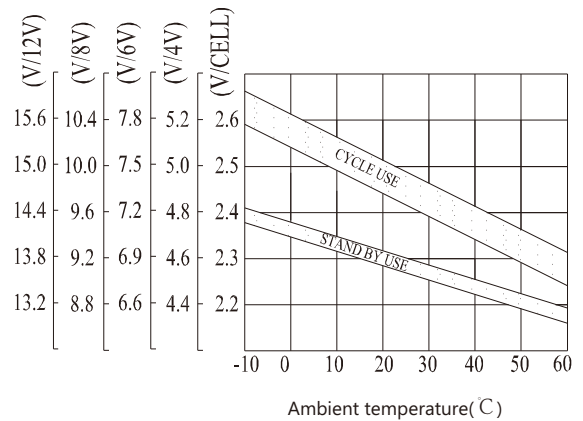
Characteristics

Capacity 77°F(25°C)	20 hour rate (3.25A)	65Ah
	10 hour rate (6.10A)	61Ah
Capacity 77°F(25°C)	5 hour rate (10.4A)	52Ah
	1 hour rate (39.0A)	39Ah
	15 minute Rate (107A)	26.8Ah
Internal Resistance	Full charged Battery 77°F(25°C)	7.5mΩ
Capacity affected by Temperature (20 hour rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(20°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)	650A(5S)	
Terminal	M2/B5/B11	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 19.5A Voltage 14.4~14.7V/77 F(25°C)
	Float	Voltage 13.5~13.8V/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	10Min	15Min	30Min	45Min	1Hour	2Hour	3Hour	5Hour	8Hour	10Hour	12Hour	24Hour
1.65	140	106	68.2	51.7	35.0	24.4	16.6	11.3	7.65	6.53	5.45	2.85
1.70	133	101	64.8	48.8	34.1	23.5	16.3	10.9	7.43	6.26	5.27	2.78
1.80	112	88.4	54.0	46.1	33.6	22.5	15.3	10.5	7.06	5.98	5.04	2.72

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

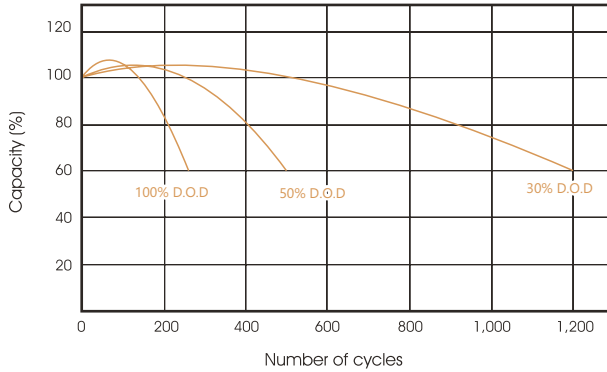
F.V/Time	10Min	15Min	30Min	45Min	1Hour	2Hour	3Hour	5Hour	8Hour	10Hour	12Hour	24Hour
1.60	254	194	127	95.2	77.2	45.3	31.8	20.9	14.2	11.8	10.2	5.35
1.65	251	192	124	94.3	76.4	44.7	31.5	20.7	14.1	11.6	10.1	5.33
1.67	250	190	123	92.9	75.6	44.2	31.4	20.6	14	11.5	10.0	5.31
1.70	246	187	121	91.5	75.0	43.6	31.2	20.3	13.9	11.3	9.94	5.29
1.75	230	182	111	90.0	74.8	43.1	30.8	20.1	13.8	11.2	9.88	5.27
1.80	214	170	104	89.0	74.4	42.4	30.1	20	13.5	11.0	9.65	5.25
1.85	177	149	96.0	82.1	69.2	41.4	29.7	19.1	13.0	10.9	9.42	4.95
1.90	146	131	89	76	64.4	40.4	29.3	18.2	12.5	10.8	9.20	4.67

6-FM-65

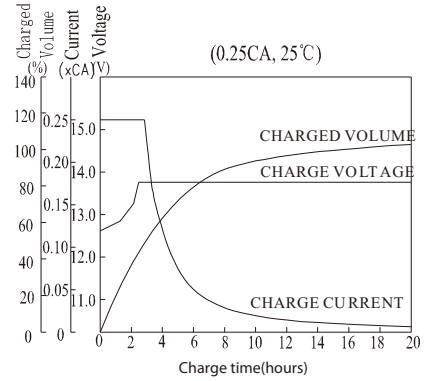
FM Series
Battery For General Use

The operating environment temperature above 40°C should be avoided ,After long term storage, The battery actual capacity would be less than the rated capacity. Full capacity will be obtained through several charge/discharge cycles. To get the longest life, OTP battery should be fully charged before storage.

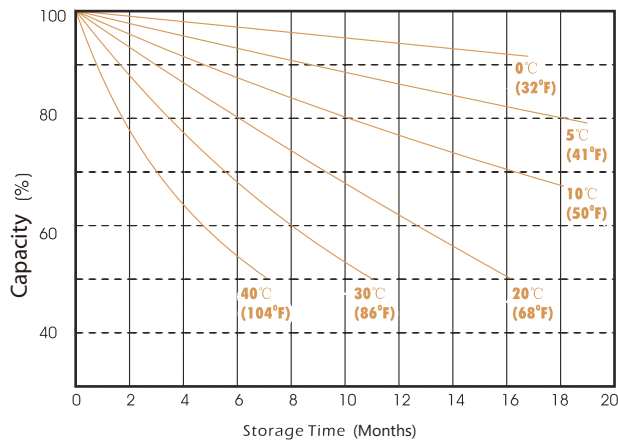
Cycle service life in relation to depth of discharge



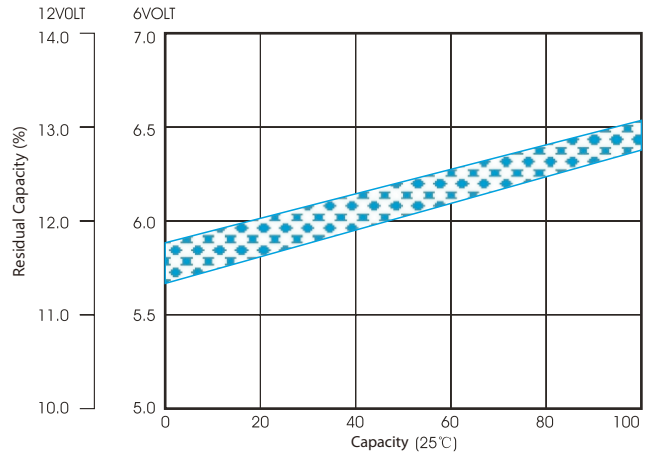
Constant voltage charge characteristic



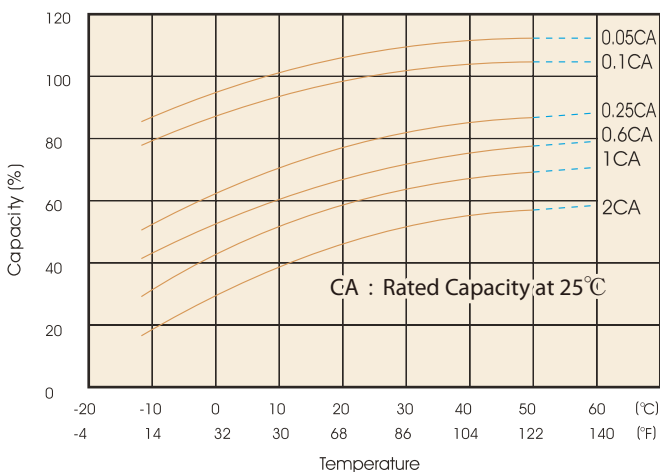
Self-Discharge Characteristics.



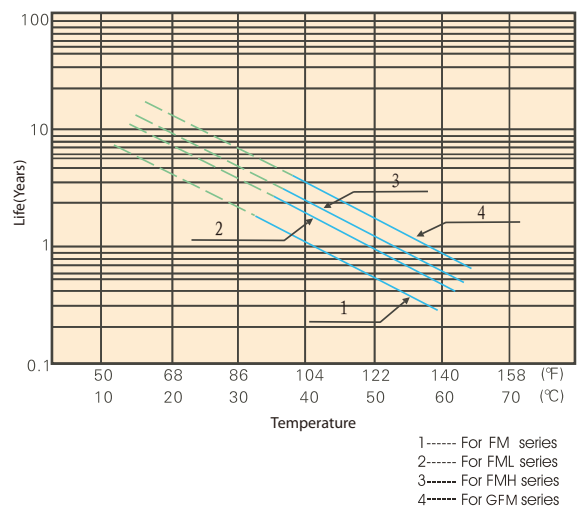
Relationship of OCV and Residual Capacity % (25°C)



Temperature effects on capacity



Temperature effects on float life



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

