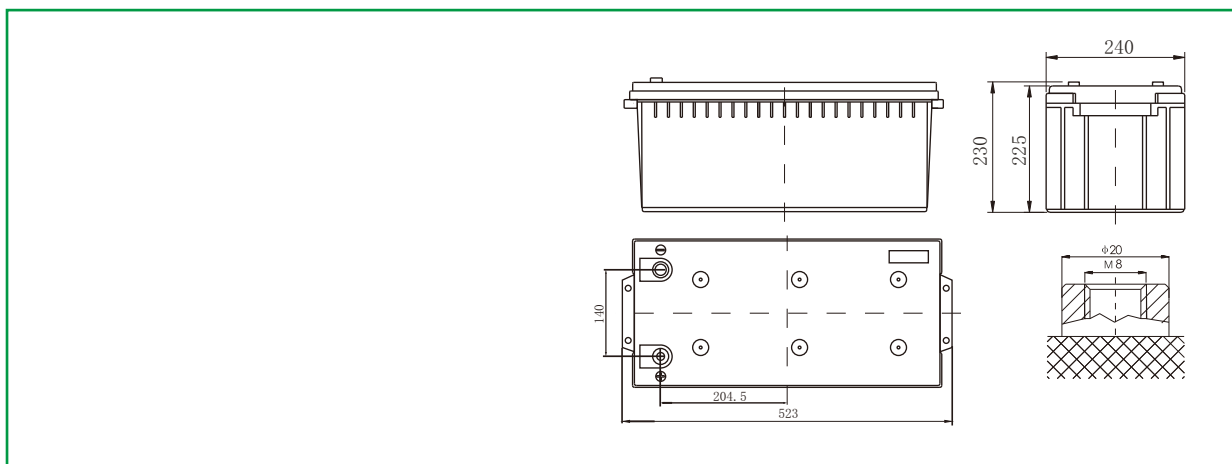


6-FM-200

FM Series
Battery For General Use



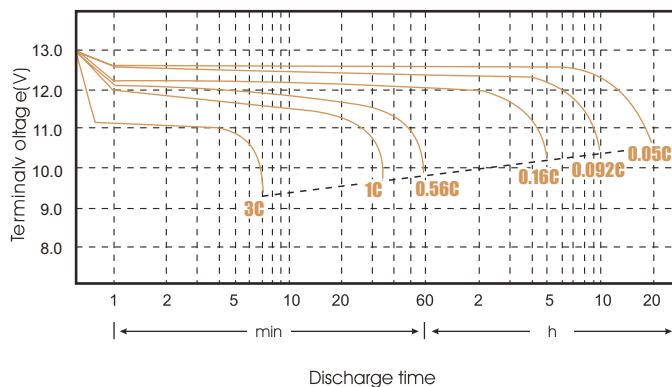
Specifications

Nominal Voltage		12V
Rated Capacity(20 hour rate)		200Ah
Dimensions	Total Height (with terminals)	9.06inches (230mm)
	Height	8.86inches (225mm)
	Length	20.59inches (523mm)
	Width	9.45inches (240mm)
Weight		Approx.132.66Pound(60.3kg)

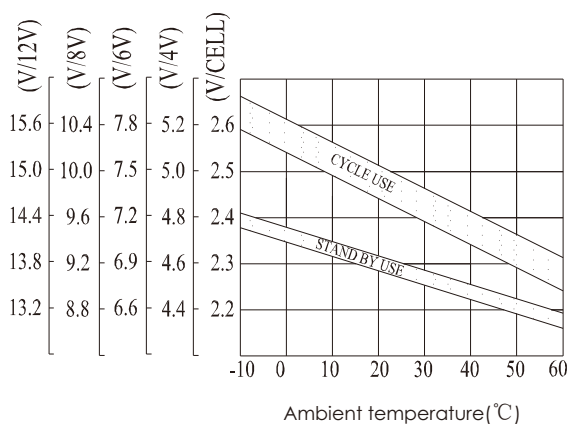
Characteristics

Capacity 77°F(25°C)	20 hour rate (10.0A)	200Ah
	10 hour rate (18.4A)	184Ah
	5 hour rate (32.0A)	160Ah
	1 hour rate (120.0A)	120Ah
	15 minute Rate (328A)	82.0Ah
Internal Resistance	Full charged Battery 77°F(25°C)	3.0mΩ
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)	1333A(5S)	
Terminal	M3	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 60A 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	386	299	189	143	109	74.3	51.5	34.2	23.5	20.3	16.5	8.90
1.70	364	286	177	134	103	72.2	50.0	33.5	23.0	19.5	16.1	8.64
1.80	305	244	146	128	98	68.9	48.3	32.1	21.8	18.4	15.6	8.35

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

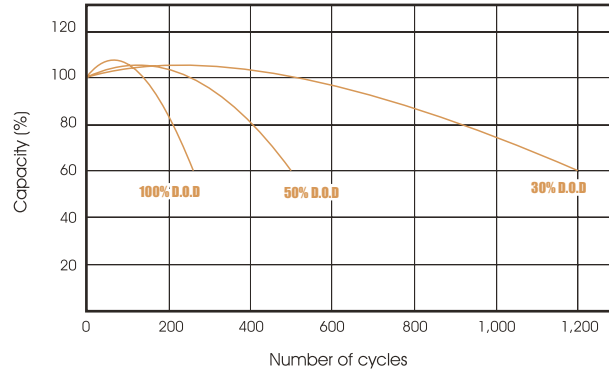
F.V/Time	10Min	15Min	30Min	45Min	1Hour	2Hour	3Hour	5Hour	8Hour	10Hour	12Hour	24Hour
1.60	697	545	349	263	231	138	95.8	63.2	43.5	37.3	30.8	15.8
1.65	691	541	343	260	228	136	94.6	63.0	43.3	36.8	30.6	15.6
1.67	685	540	338	256	223	135	94.0	62.8	43.2	36.2	30.5	15.5
1.70	672	529	331	252	219	134	93.2	62.6	43.0	36.0	30.3	15.4
1.75	629	499	296	250	216	133	92.8	62.0	42.5	35.1	30.0	15.3
1.80	584	469	281	246	211	130	92.1	61.4	41.7	34.4	29.8	15.1
1.85	485	410	257	226	207	124	89.3	57.2	38.9	32.8	27.8	14.8
1.90	403	358	235	208	203	118	86.6	53.3	36.3	31.3	25.9	14.5

6-FM-200

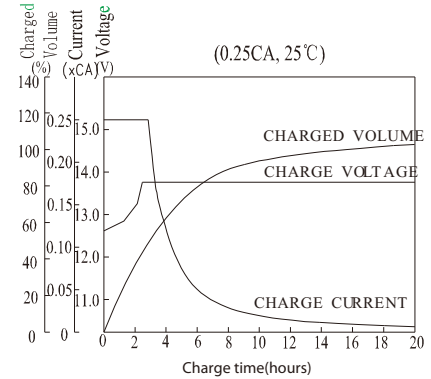
FM Series
Battery For General Use

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.

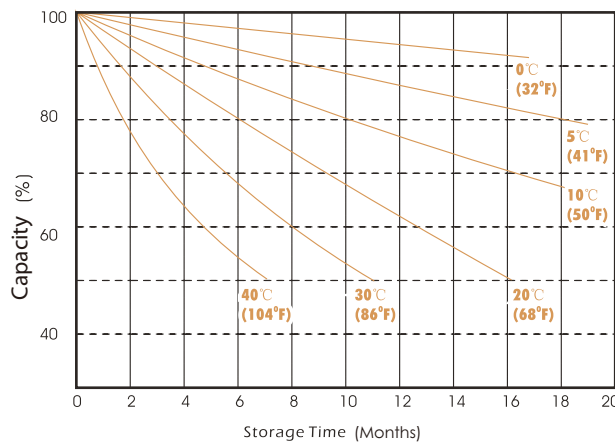
Cycle service life in relation to depth of discharge



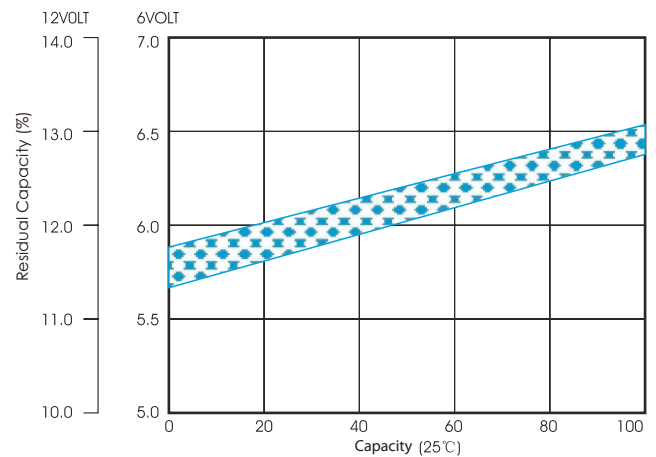
Constant voltage charge characteristic



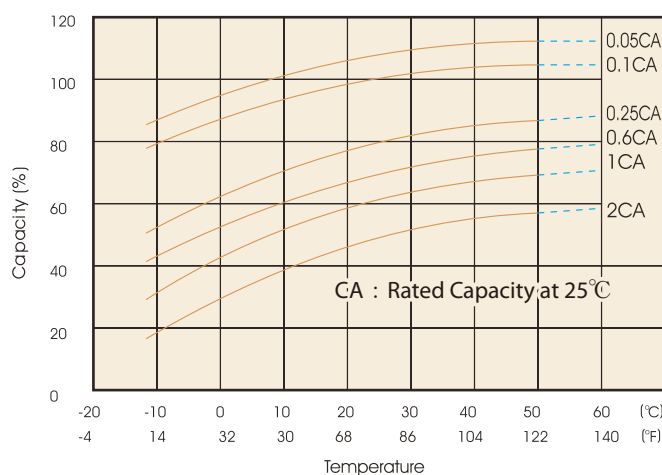
Self-Discharge Characteristics.



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



Temperature effects on capacity



Temperature effects on float life

