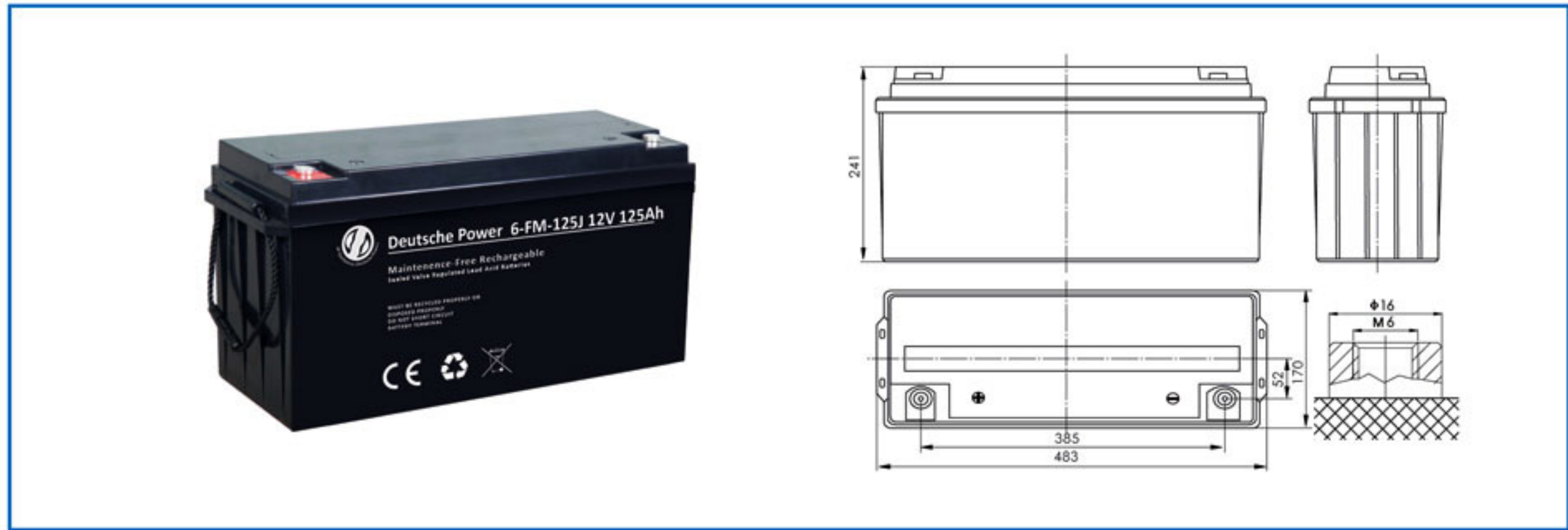


FM/NPG-125

Deep Cycle Gel Design



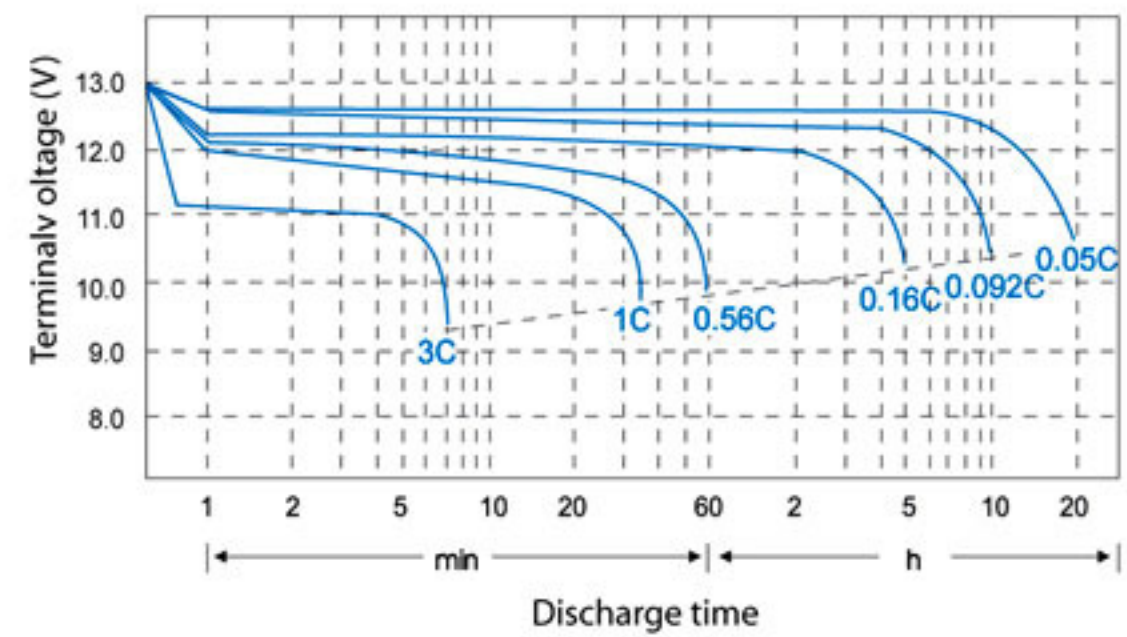
Specifications

Nominal Voltage		12V
Rated Capacity(20 hour rate)		125Ah
Dimensions	Total Height (with terminals)	9.49inches (241mm)
	Height	9.49inches (241mm)
	Length	19.02inches (483mm)
	Width	6.69inches (170mm)
Weight		Approx. 91.3Pound (41.5kg)

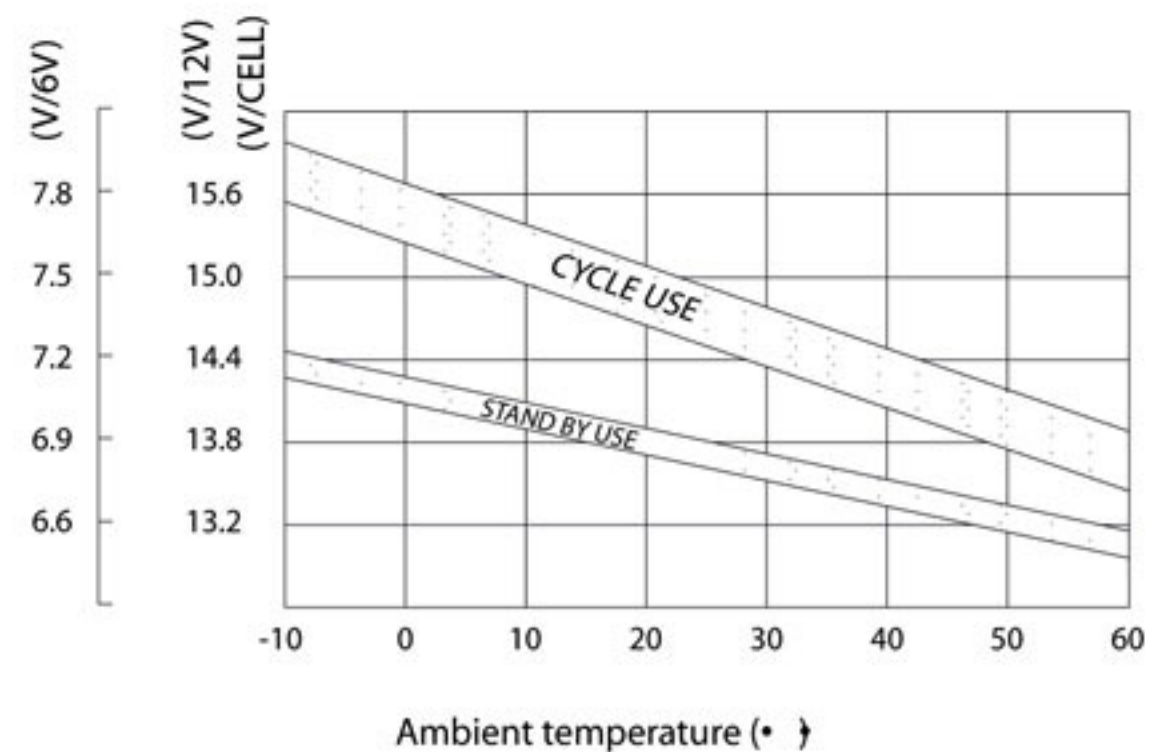
Characteristics

Capacity 77°F(25°C)	20 hour rate (6.25A)	125Ah
	10 hour rate (11.5A)	115Ah
	5 hour rate (20.0A)	100Ah
	1 hour rate (75.0A)	75Ah
	15 minute Rate (205A)	51.2Ah
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)	1000A(5S)	
Terminal	M2	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 37.5A
		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	271	210	128	100	67.8	47.3	32.6	21.9	15.5	12.3	10.5	5.42
1.70	256	196	109	94.7	65.0	46.1	31.3	21.1	14.9	12.0	10.2	5.32
1.80	216	171	98.0	89.4	61.8	44.1	29.5	20.0	14.0	11.5	9.92	5.22

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

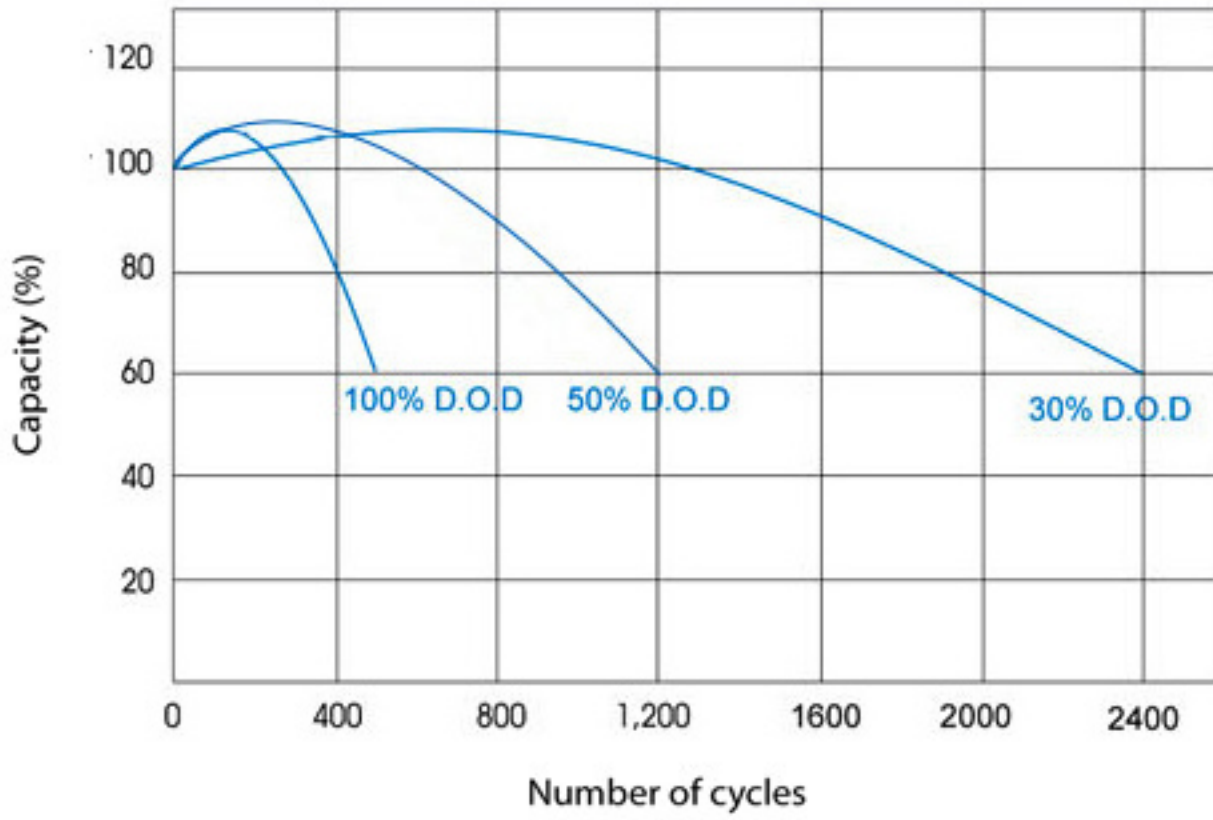
F.V/Time	10Min	15Min	30Min	45Min	1Hour	2Hour	3Hour	5Hour	8Hour	10Hour	12Hour	24Hour
1.60	486	378	238	183	148	88.3	61.4	40.5	27.9	23.2	19.8	10.2
1.65	480	376	235	181	146	86.7	60.0	40.1	27.8	23.0	19.7	10.1
1.67	476	375	230	178	143	85.8	59.4	39.8	27.8	22.9	19.6	10.0
1.70	467	368	206	175	140	85.0	58.7	39.3	27.6	22.7	19.4	9.92
1.75	433	343	195	173	135	84.2	58.0	38.8	27.1	22.5	19.3	9.83
1.80	406	326	178	171	133	83.3	57.25	37.7	27.1	22.1	19.1	9.67
1.85	337	285	173	156	123	79.6	56.5	36.7	24.9	21.0	19.8	9.50

FM/NPG-125

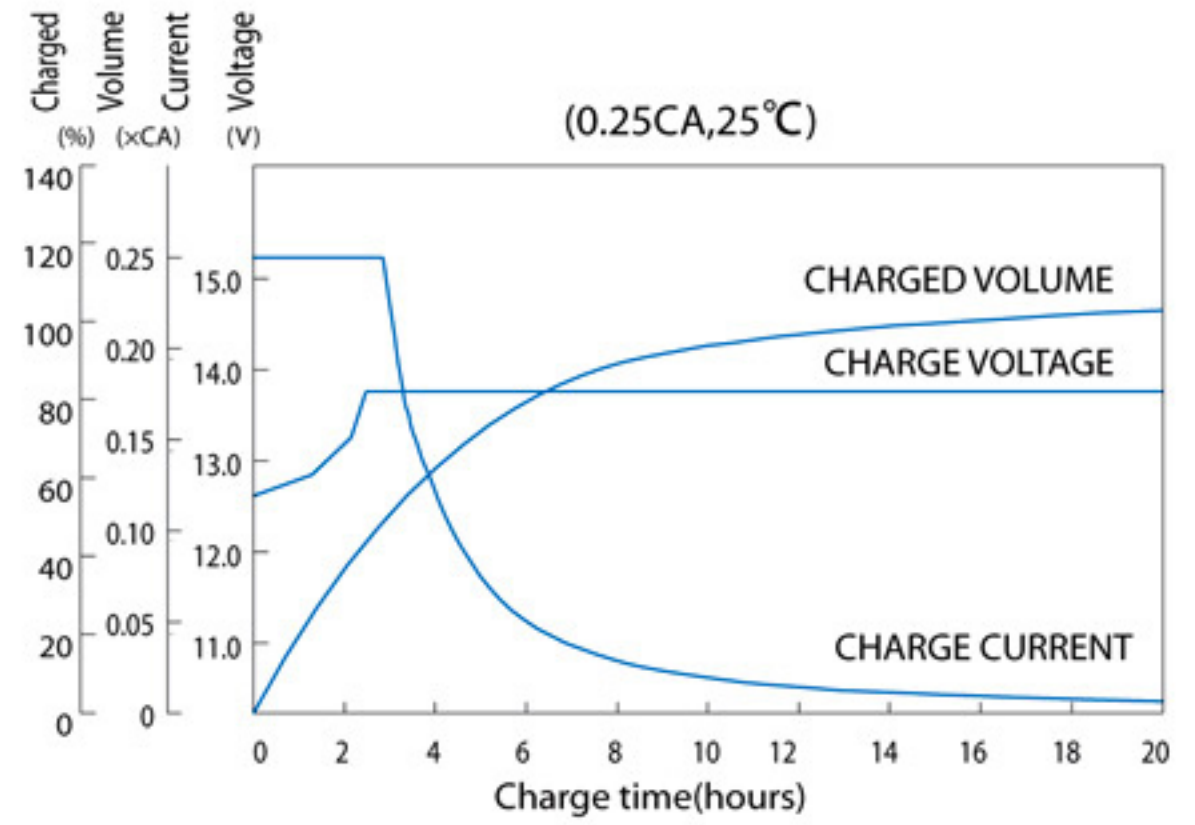
Deep Cycle Gel Design

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, Deutsche Power battery should be fully charged before storage.

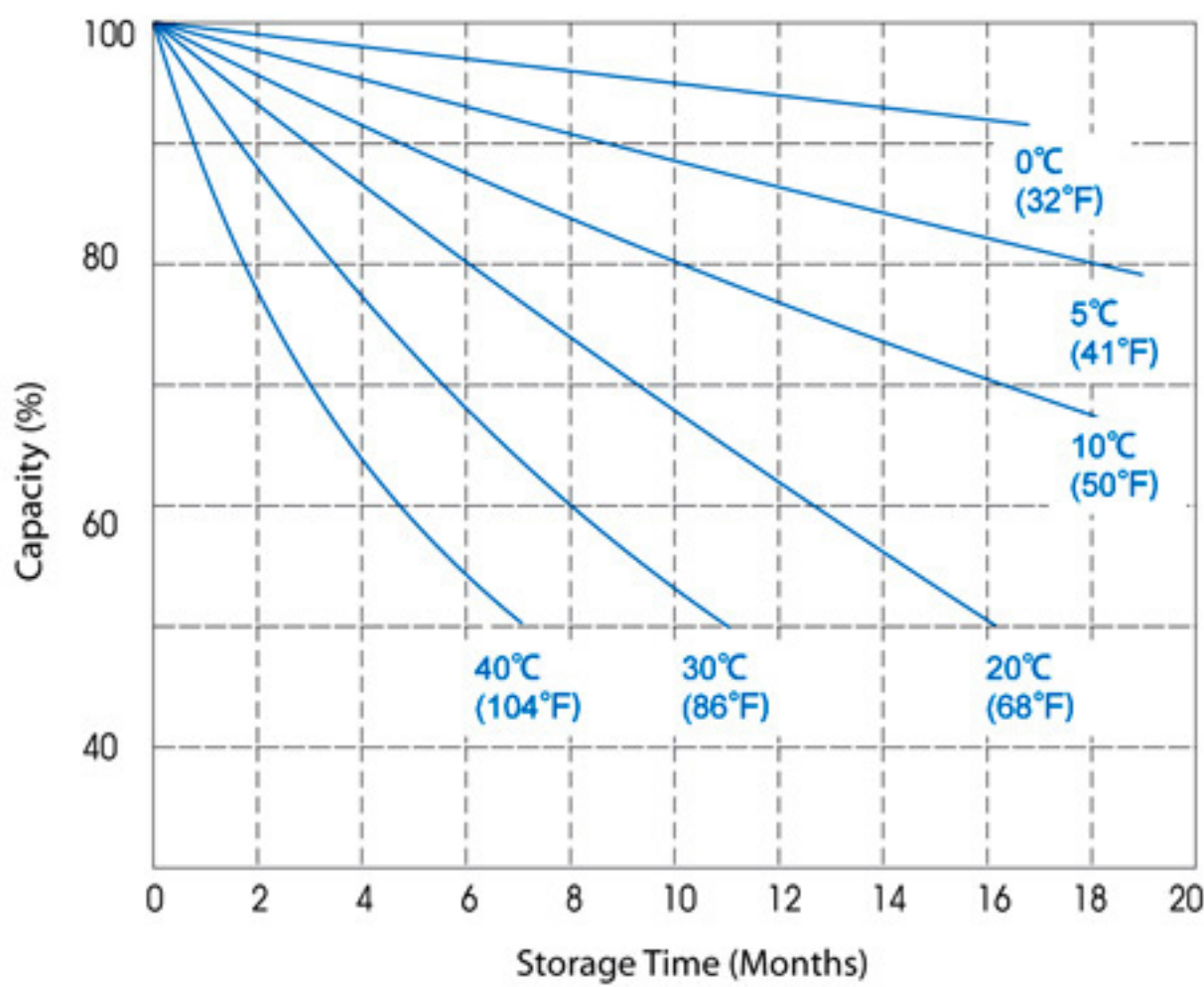
Cycle service life in relation to depth of discharge



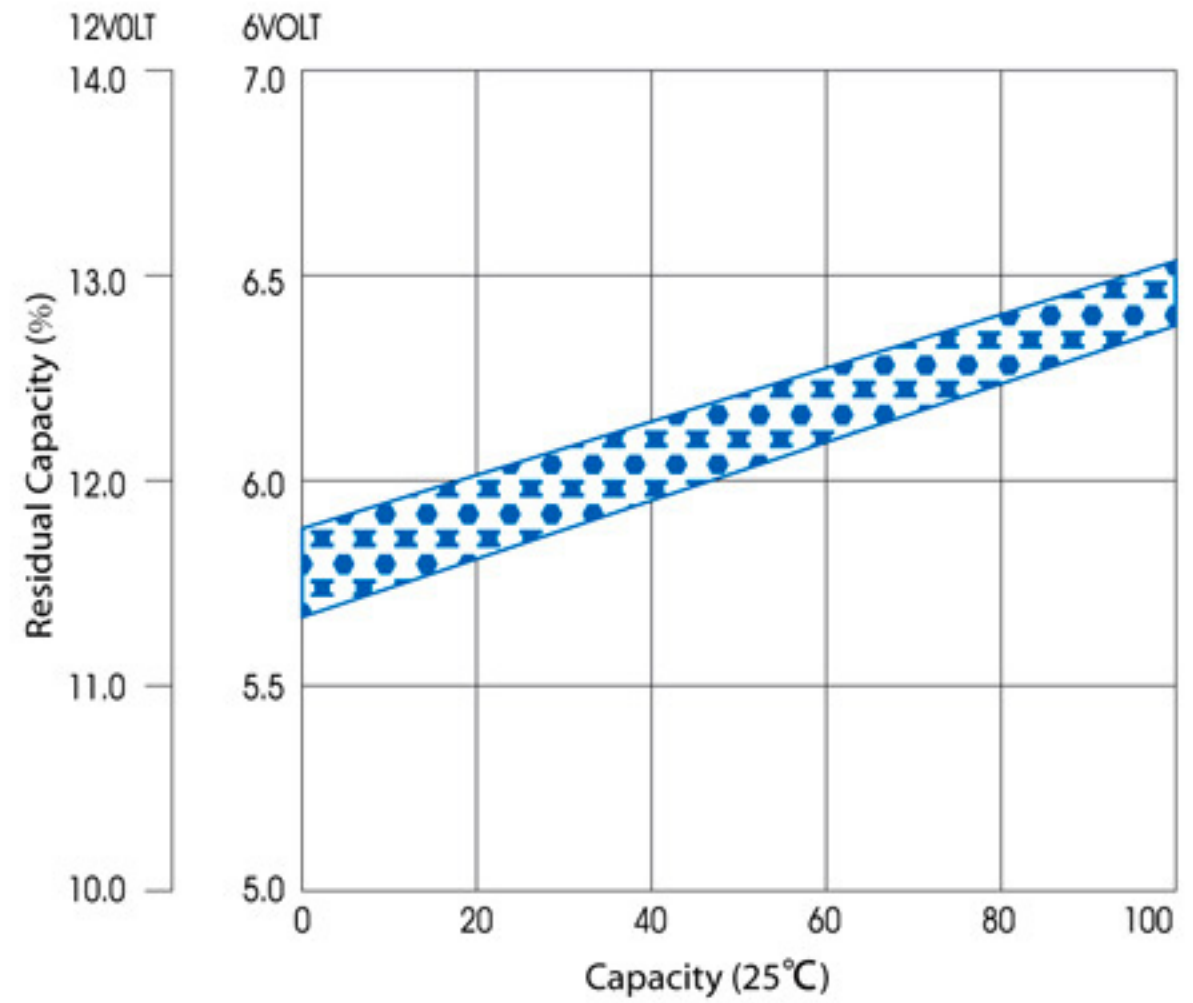
Constant voltage charge characteristic



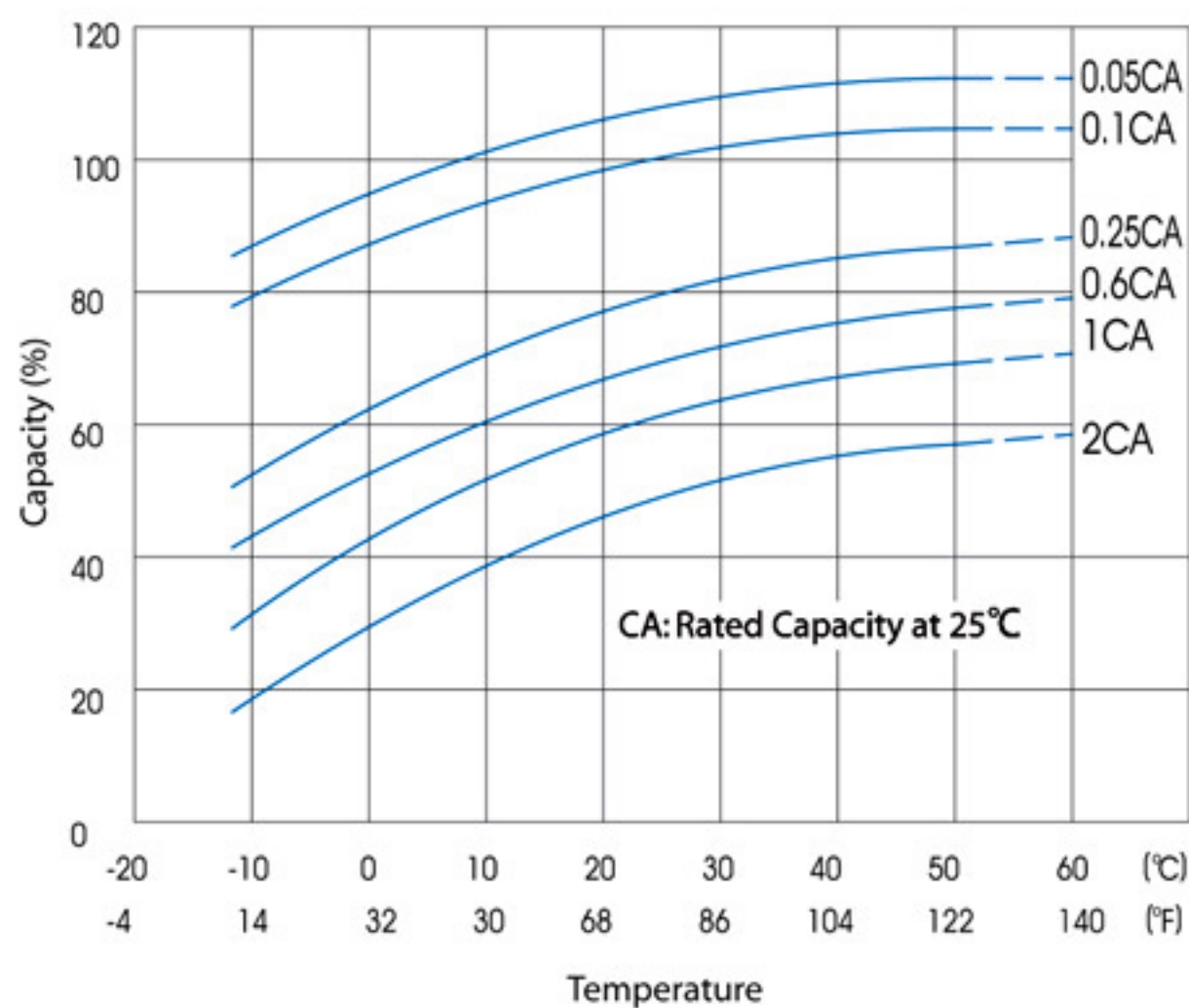
Self-Discharge Characteristics



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



Temperature effects on capacity



Temperature effects float life

