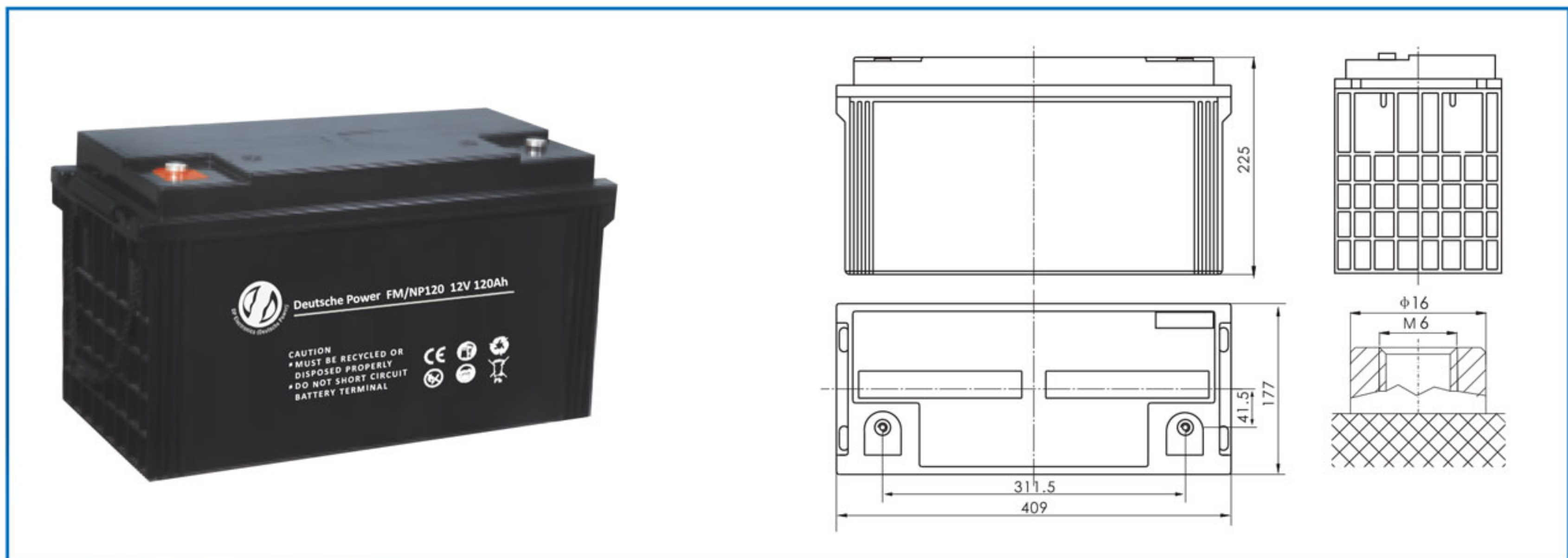


6-FM/NP120

FM/NP Battery Series (General Use Battery)



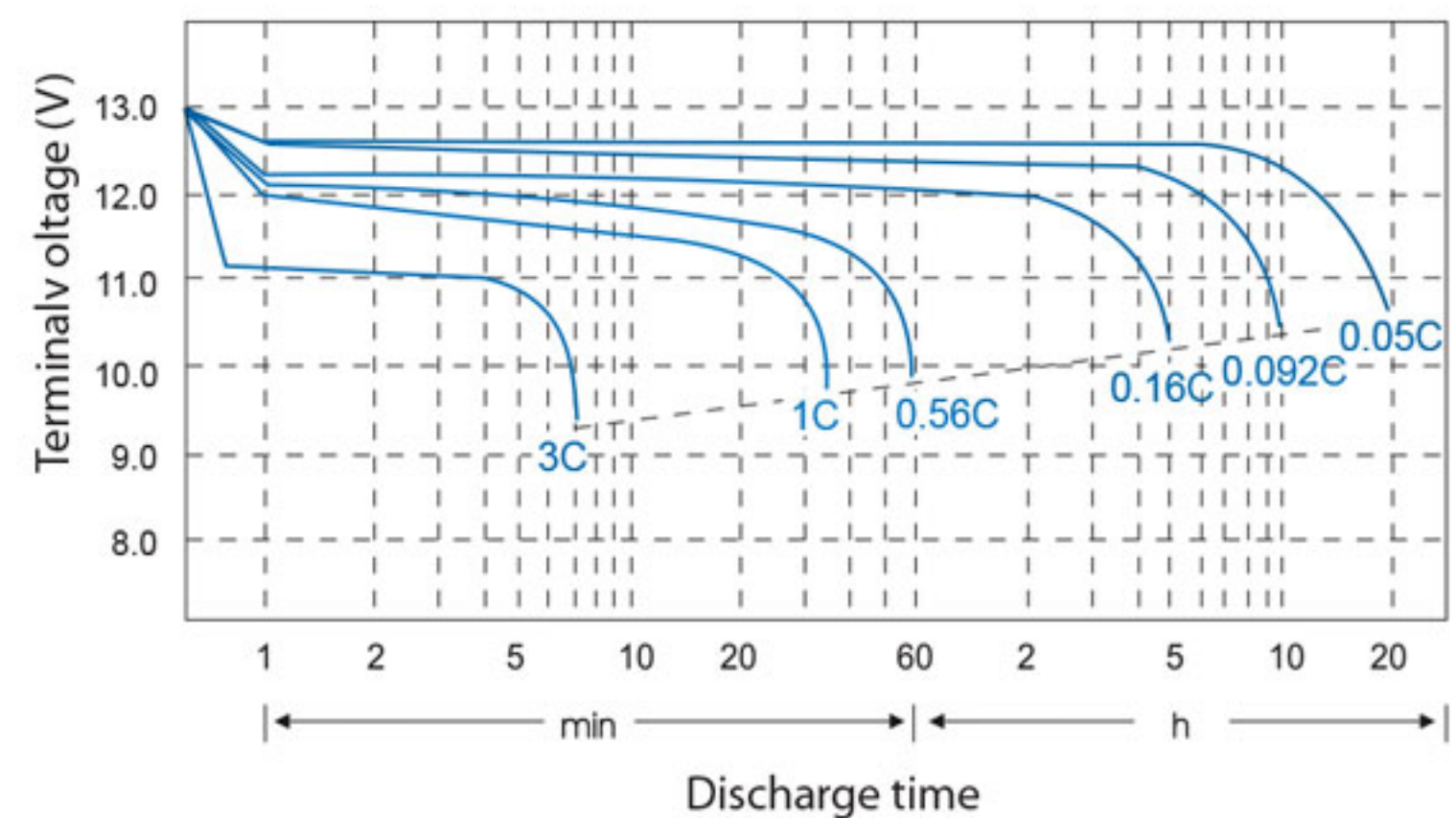
Specifications

Nominal Voltage		12V
Rated Capacity(20 hour rate)		120Ah
Dimensions	Total Height (with terminals)	9.29inches (236mm)
	Height	8.19inches (208mm)
	Length	16.02inches (407mm)
	Width	6.85inches (174mm)
Weight		Approx. 77.0 pound(35.0 kg)

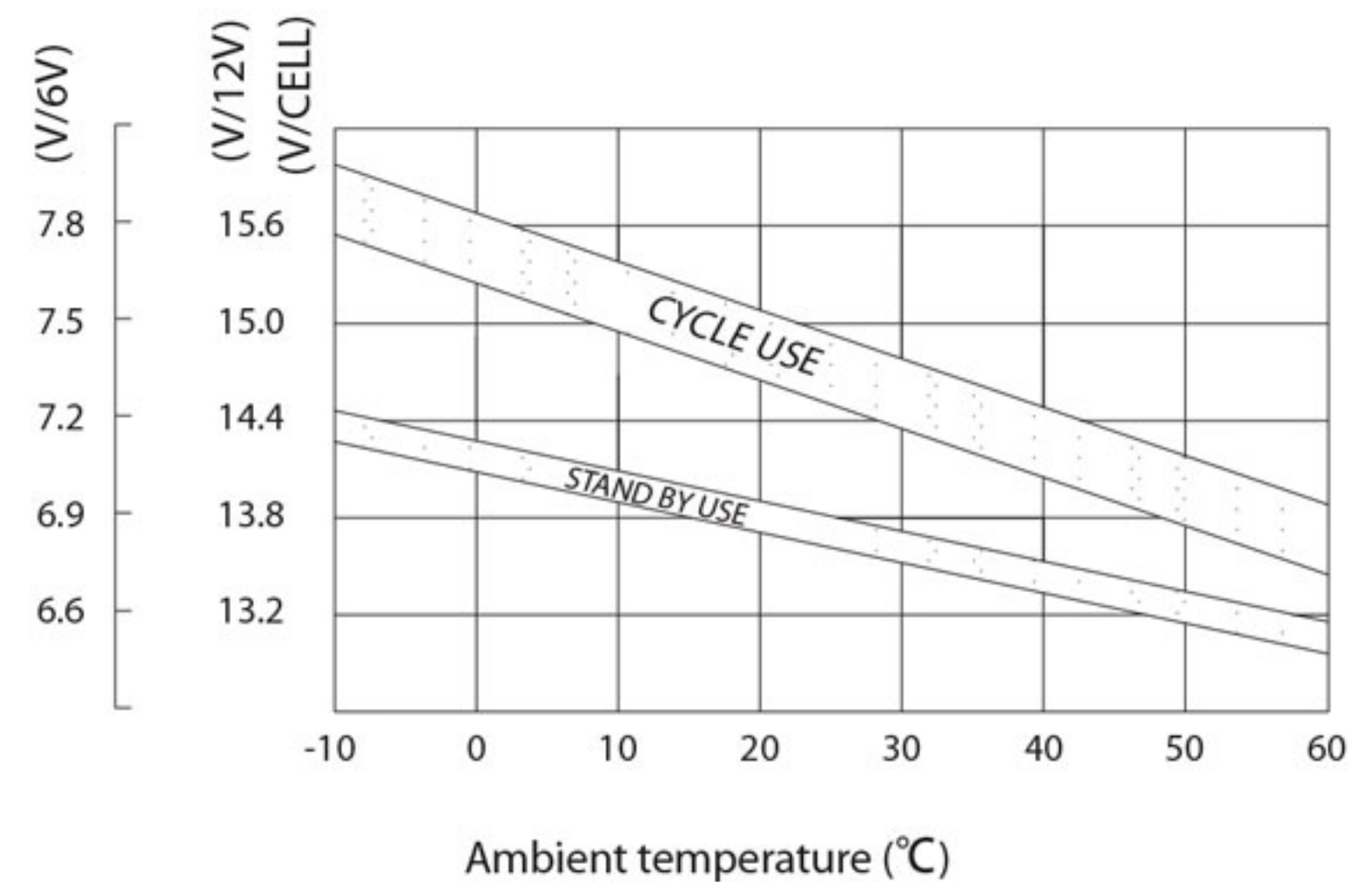
Characteristics

Capacity 77°F(25°C)	20 hour rate (6.0A)	120Ah
	10 hour rate (11A)	110Ah
	5 hour rate (19.2A)	96Ah
	1 hour rate (72A)	72Ah
	15 minute Rate(196.8A)	49.2Ah
Internal Resistance	Full charged Battery 77°F(25°C)	4.0mΩ
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)	960A(5S)	
Terminal	M3	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 36A
		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	261	202	122	96.1	65.2	45.3	31.2	21.0	14.8	11.7	10.1	5.20
1.70	246	189	104	90.9	62.4	44.2	30.0	20.3	14.3	11.5	9.80	5.09
1.80	207	165	94.1	85.8	59.3	42.4	28.3	19.2	13.4	11.0	9.50	5.02

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

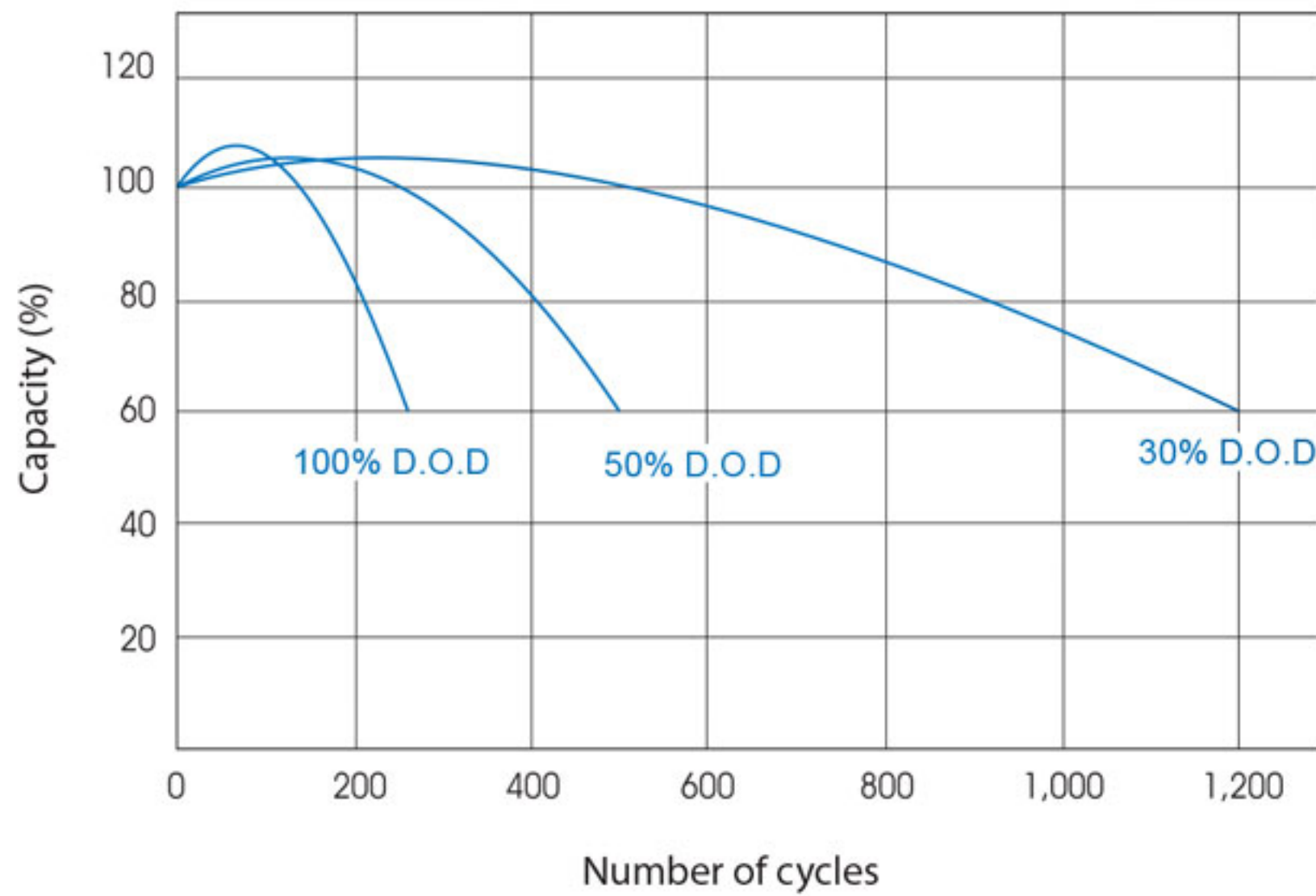
F.V/Time	10Min	15Min	30Min	45Min	1Hour	2Hour	3Hour	5Hour	8Hour	10Hour	12Hour	24Hour
1.60	473	368	229	178	143	84.0	58.9	38.9	27.5	22.0	18.8	9.73
1.65	467	365	222	175	138	82.9	58.8	38.6	27.4	21.8	18.7	9.72
1.67	463	362	208	173	137	82.6	58.3	38.3	27.2	21.8	18.6	9.71
1.70	455	349	194	170	133	82.1	57.2	37.9	26.8	21.7	18.5	9.68
1.75	415	329	187	169	130	81.5	55.7	37.2	26.0	21.6	18.4	9.67
1.80	396	317	181	166	128	79.9	55.3	36.6	25.7	21.2	18.3	9.65
1.85	328	277	169	152	125	77.0	54.0	35.4	24.1	20.3	17.3	9.14

6-FM/NP120

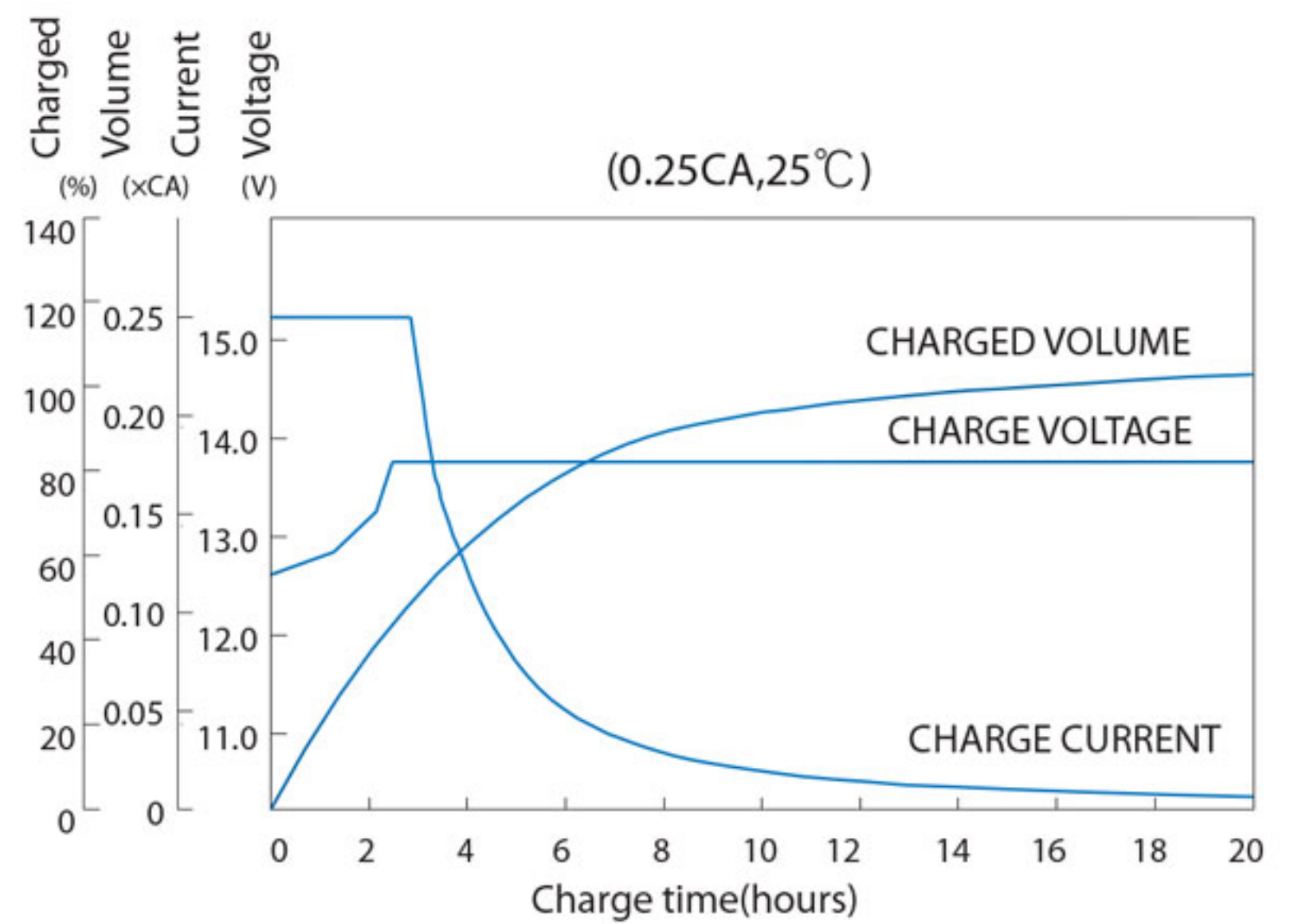
FM/NP Battery Series (General Use Battery)

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

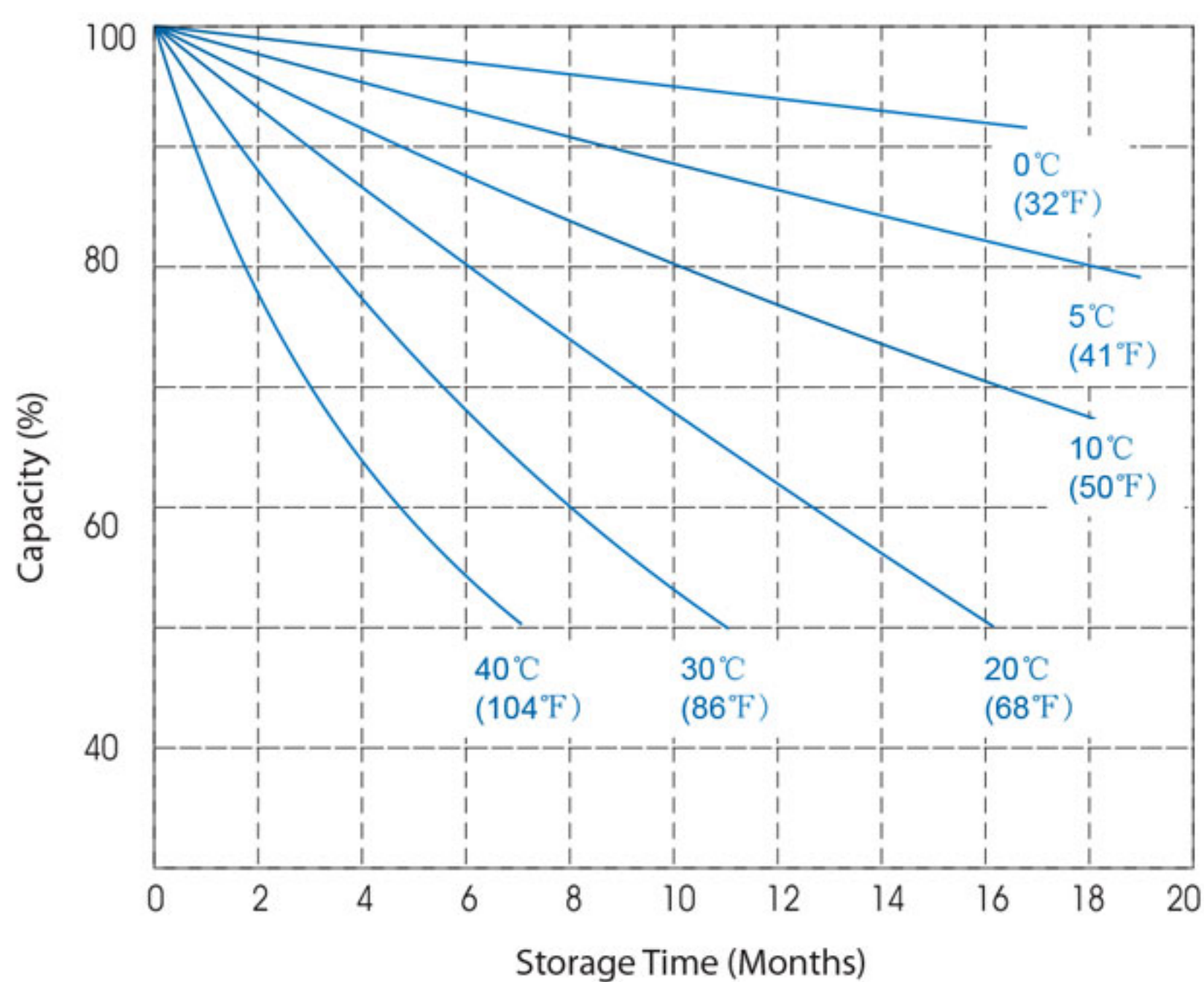
Cycle service life in relation to depth of discharge



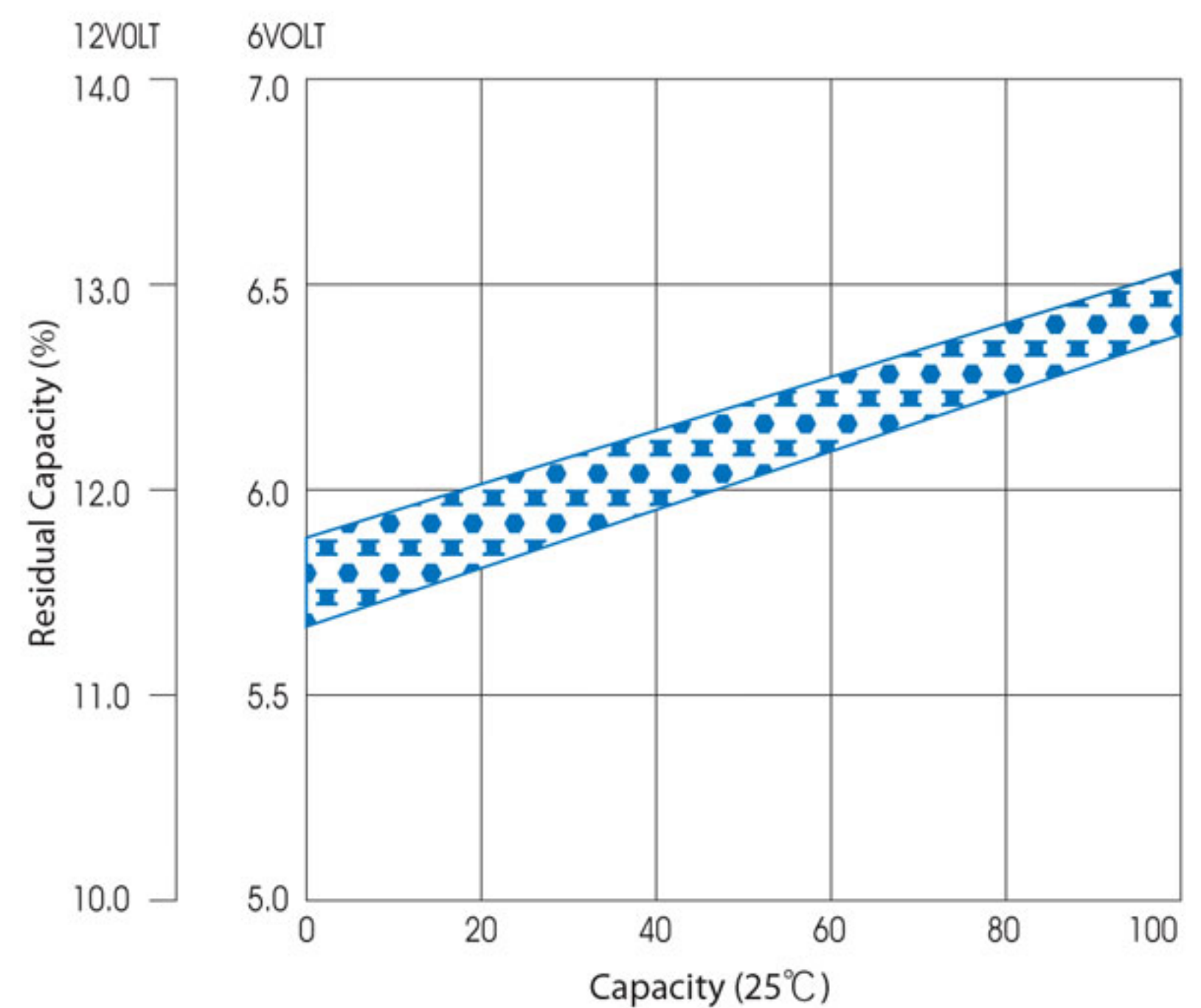
Constant voltage charge characteristic



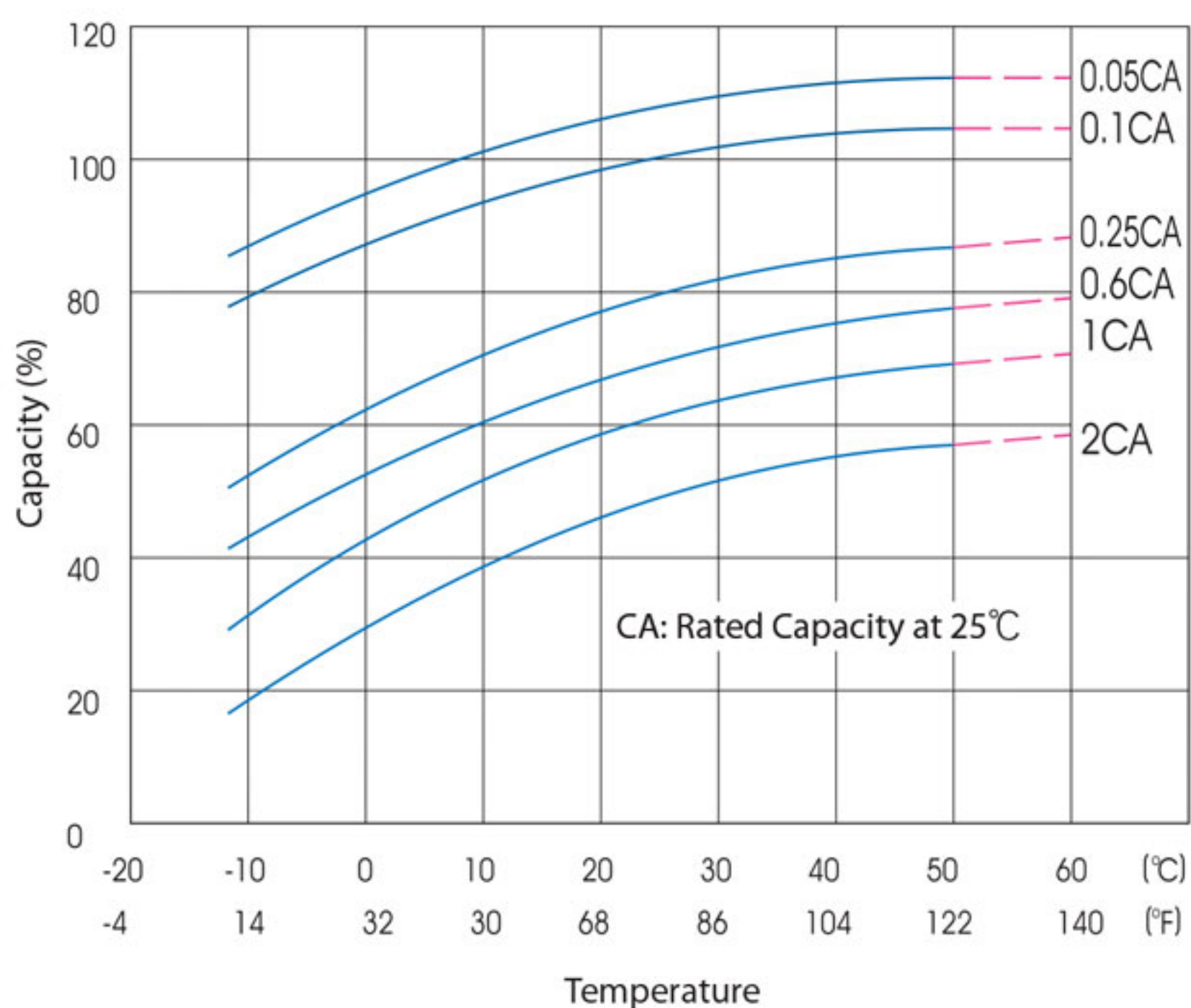
Self-Discharge Characteristics



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



Temperature effects on capacity



Temperature effects float life

