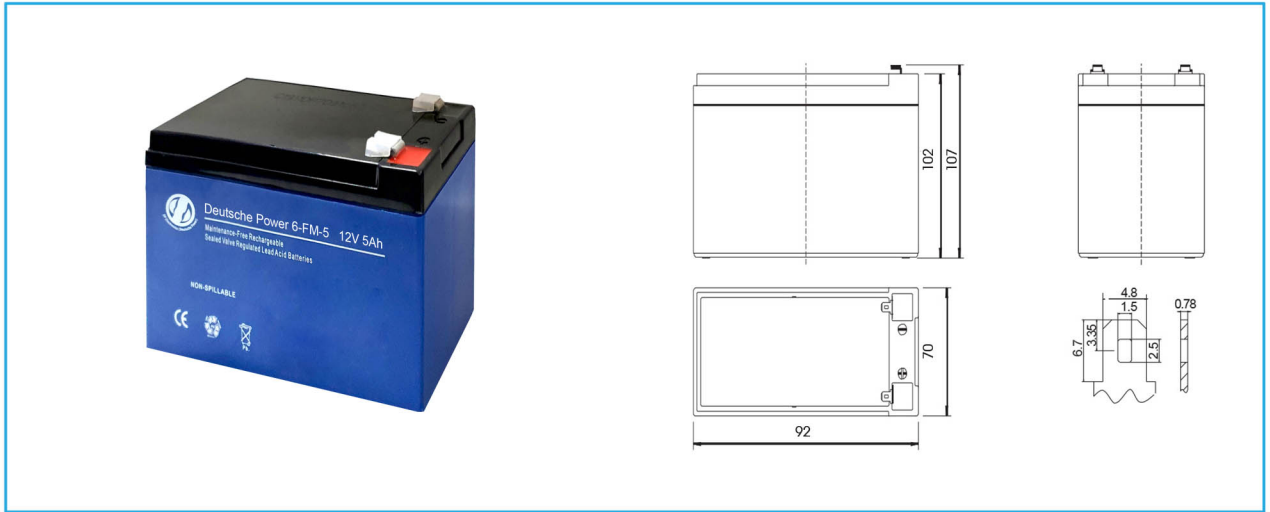


6-FM/NP5

FM/NP Battery Series (General Use Battery)



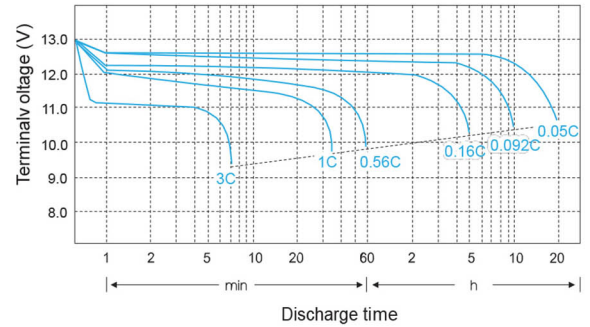
Specifications

Nominal Voltage	12V	
Rated Capacity (20 hour rate)	5.0Ah	
Dimensions	Total Height (with terminals)	4.21 inches (107mm)
	Height	4.01 inches (102mm)
	length	3.62 inches (92mm)
	width	
Weight	Aprox. 3.53Lbs. (1.60kg)	

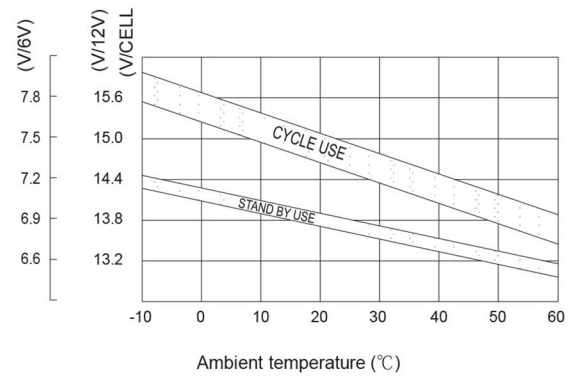
Characteristics

Capacity 77°F(25°C)	20 hour rate	5.0Ah
	10 hour rate	4.8Ah
	5 hour rate	4.3Ah
	1hour rate	3.0Ah
	15Minute Rate	
Internal Resistance	Full charged Battery 77°F(25°C)	35MΩ
	104°F(40°C)	102%
Capacity affected by Temperature (20hour rate)	77°F(25°C)	100%
	°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(25°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)	103A(5S)	
Terminal	F1/F2/C	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 1.5A Voltage 14.4~14.7 V / 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	5Min	10Min	15Min	30Min	60Min	90Min	2H	3H	4H	5H	10H	20H
1.60V	18.7	12.3	9.08	5.37	3.11	2.26	1.80	1.26	0.810	0.535	0.439	0.234
1.67V	17.6	11.8	8.88	5.31	3.09	2.25	1.79	1.24	0.808	0.533	0.438	0.233
1.70V	17.0	11.6	8.79	5.28	3.08	2.23	1.78	1.24	0.807	0.532	0.437	0.232
1.75V	16.1	11.2	8.62	5.21	3.06	2.22	1.77	1.23	0.804	0.531	0.435	0.229
1.80V	15.0	10.7	8.42	5.13	3.03	2.21	1.76	1.22	0.801	0.529	0.431	0.225
1.85V	13.8	10.3	8.21	5.04	3.00	2.18	1.74	1.21	0.798	0.528	0.428	0.221

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

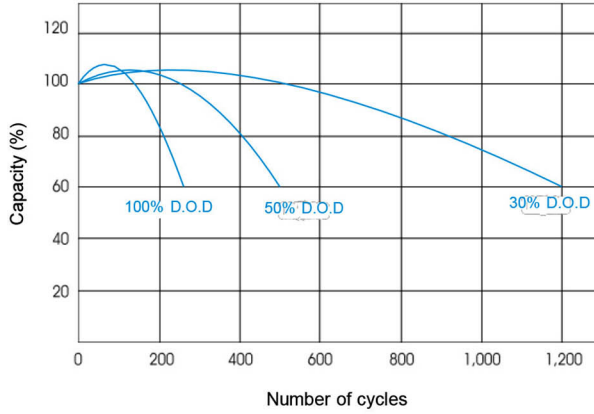
F.V/Time	5Min	10Min	15Min	30Min	60Min	90Min	2H	3H	4H	5H	10H	20H
1.60V	221	145	110	65.9	38.6	27.9	22.2	16.1	10.7	7.09	5.79	3.19
1.67V	206	139	107	65.4	38.4	27.7	22.0	16.0	10.6	7.08	5.78	3.17
1.70V	199	137	105	64.9	38.1	27.6	21.9	15.9	10.5	7.04	5.76	3.16
1.75V	188	133	102	64.7	38.0	27.5	21.8	15.8	10.4	7.02	5.74	3.16
1.80V	177	128	100	63.6	37.7	27.2	21.5	15.7	10.3	6.96	5.71	3.13
1.85V	165	122	96.6	60.9	36.7	26.7	21.3	15.5	10.2	6.89	5.63	3.09

6-FM/NP5

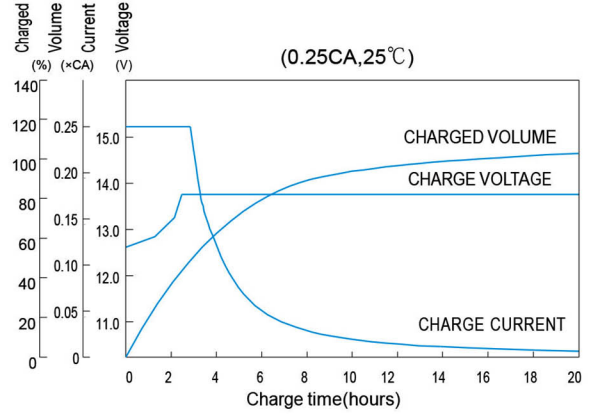
FM/NP Battery Series (General Use Battery)

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

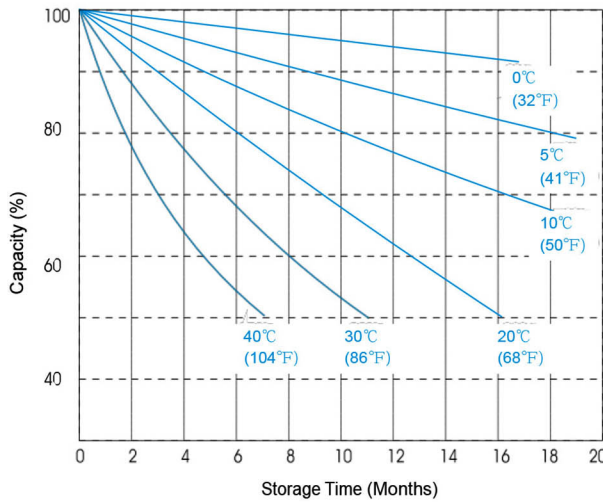
Cycle service life in relation to depth of discharge



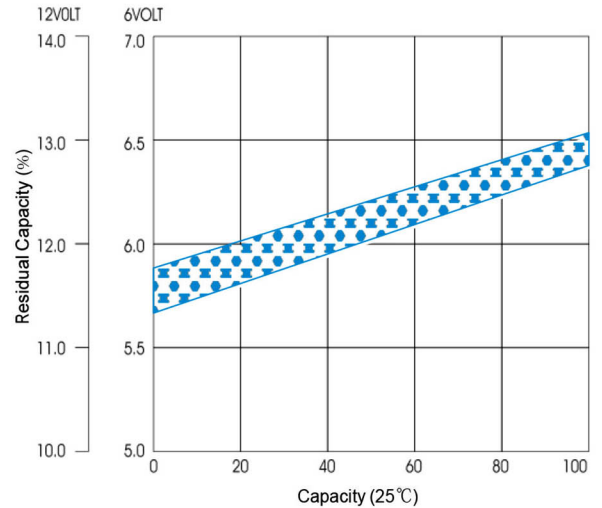
Constant voltage charge characteristic



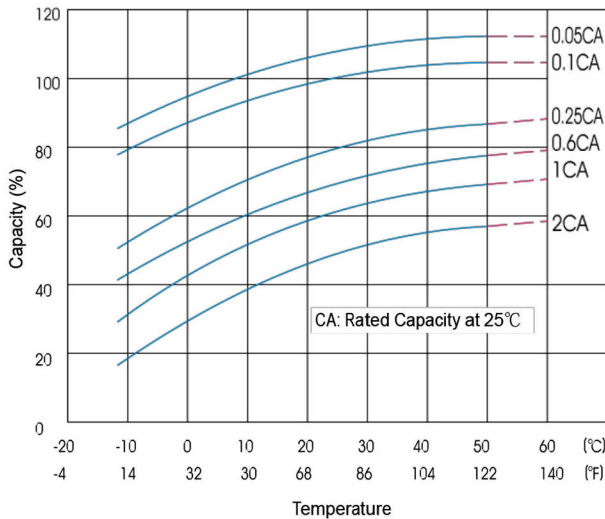
Self-Discharge Characteristics



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



Temperature effects on capacity



Temperature effects float life

