6-FM/NP40A



12V

40Ah

6.70inches (170mm)

6.70inches (170mm)

7.80inches (198mm)

6.54inches (166mm)

Full charged Battery 77°F(25°C)

Approx. 30.18pound(13.7kg)

40.0Ah 36.0Ah

32.0Ah

24.0Ah

16.5Ah

7mΩ

102%

100%

85%

65%

91%

81%

60%

Specifications

Dimensions

Capacity 77°F(25°C)

Internal Resistance

Characteristics

Nominal Voltage

Rated Capacity(20 hour rate)

Total Height

(with terminals)

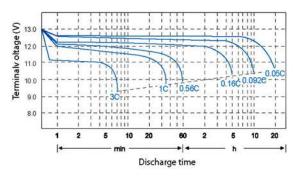
Height

Length

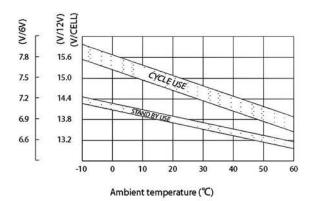
Width

Weight

Discharge Curves 77°F (25°C)



Relationship between charge voltage and temperature



Capacity affected by 104%(40%) Temperature (20 hour rate) 77%(25%) Self-Discharge 32%F(0%) 77%F(20%) Capacityafter 3 month storage 77%F(20%) Capacityafter 6 month storage Max. Discharge 4004.(5)

Max. Discharge Current 77°F(25°C)		400A (5S) M1					
Terminal							
		Initial Charging Current less than 12.0A					
Charge	Cycle	Voltage 14.4~14.7V/77°F(25°C)					
(ConstantVoltage)	Float	Voltage 13.5~13.8V/77°F(25°C)					

Constant Current Discharge (AMPERES @25°C)

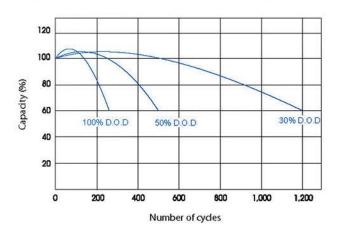
F.V/Time	10Min	15Min	30Min	45Min	1Hour	2Hour	3Hour	5Hour	8Hour	10Hour	12Hour	24Hour
1.65	81.7	64.0	40.3	30.2	23.5	14.1	10.3	6.81	4.53	4.06	3.24	1.86
1.70	77.0	60.3	38.1	28.3	22.5	13.7	10.0	6.54	4.36	3.91	3.11	1.78
1.80	64.4	51.5	35.1	26.1	21.8	13.2	9.51	6.23	4.08	3.68	2.92	1.68

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

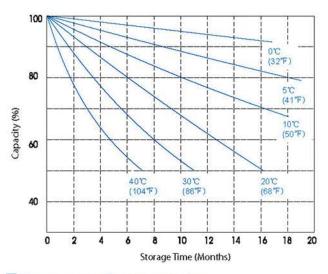
F.V/Time	10Min	15Min	30Min	45Min	1Hour	2Hour	3Hour	5Hour	8Hour	10Hour	12Hour	24Hour
1.60	150	119	73.9	55.5	46.9	26.6	18.9	12.7	8.42	7.12	6.09	3.07
1.65	146	116	73.4	55.0	45.5	25.8	18.7	12.5	8.36	7.05	6.00	3.05
1.67	144	114	72.4	54.0	44.8	25.7	18.6	12.4	8.27	6.97	5.94	3.02
1.70	142	112	71.2	53.1	44.1	25.5	18.4	12.2	8.16	6.91	5.86	2.96
1.75	134	107	70.9	52.2	43.8	25.3	18.3	12.1	8.08	6.84	5.71	2.91
1.80	123	99.0	67.5	50.3	43.0	24.8	17.9	11.9	7.81	6.61	5.60	2.82
1.85	102	87.0	61.4	47.8	40.0	23.9	17.4	11.3	7.59	6.32	5.39	2.74

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.

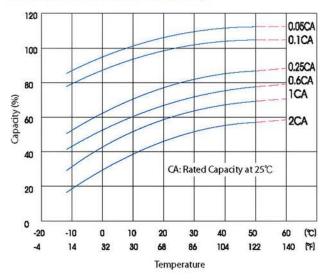
Cycle service life in relation to depth of discharge



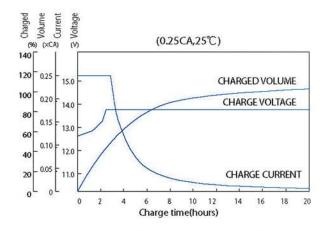
Self-Discharge Characteristics







Constant voltage charge characteristic



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

