# 6-FM/NP80



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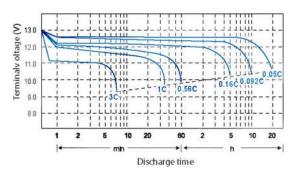
#### Specifications

Nomir	nal Voltage	12V				
Rated Cap	acity(20 hour rate)	80Ah				
	Total Height (with terminals)	8.51inches (216mm)				
Dimensions	Height	8.31inches (211mm)				
	Length	10.24inches(260mm)				
3	Width	6.65inches (169mm)				
	Weight	Approx. 49.50pound(22.5kg				

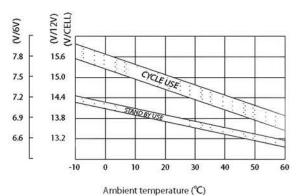
#### Characteristics

		20 hour rate (4.0A)	80Ah				
Caracity		10 hour rate (7.2A)	72Ah				
Capacity 77°F(25°C)		5 hourrate (12.8A)	64Ah				
		1 hourrate (48A)	48.Ah				
		15 minute Rate (130A)	32.5Ah				
Internal Resistance		Full charged Battery 77°F(25°C)	7.5m Ω				
		104°F(40°C)	102%				
Capacity affected by	/	77°F(25°C)	100%				
Temperature (20 hou		32°F(0°C)	85%				
		5°F(-15°C)	65%				
		Capacityafter 3 month storage	91%				
Self-Discharge 77°F(20°C)		Capacityafter 6 month storage	81%				
// (20 C)		Capacityafter 12 month storage	60%				
Max. Discharge Current 77°F(25°C)		680A(5S)					
Terminal		M1					
	20.00	Initial Charging Current less than 24A					
Charge	Cycle	Voltage 14.4~14.7V/77°F(25°C)					
(ConstantVoltage)	Float	Voltage 13.5~13.8V/77°F(25°C)					

# ■ Discharge Curves 77°F (25°C)



#### Relationship between charge voltage and temperature



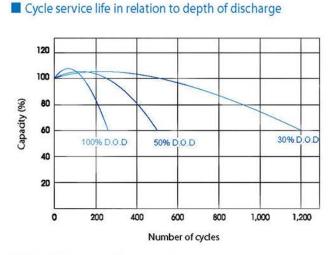
#### Constant Current Discharge (AMPERES @25°C)

F.V/Time	10Min	15Min	30Min	45Min	1Hour	2Hour	3Hour	5Hour	8Hour	10Hour	12Hour	24Hour
1.65	173.6	134.4	81.6	64.1	43.36	30.24	20.88	14.00	9.92	7.84	6.73	3.46
1.70	164.0	125.6	69.4	60.6	41.52	29.52	20.00	13.52	9.52	7.67	6.53	3.40
1.80	138.4	109.6	62.7	57.2	39.52	28.24	18.88	12.80	8.96	7.36	6.34	3.34

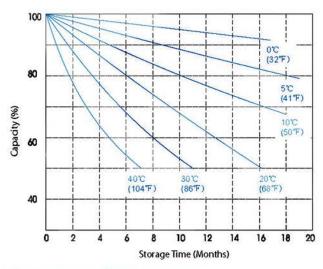
#### Constant Power Discharge (WATTS PER CELL@25°C)

F.V/Time	10Min	15MIn	30Min	45Min	1 Hour	2Hour	3Hour	5Hour	8Hour	10Hour	12Hour	24Hour
1.60	313	239	157	117	95.0	55.8	39.1	25.7	17.5	14.5	12.6	6.58
1.65	309	237	153	116	94.1	55.0	38.7	25.5	17.4	14.3	12.5	6.56
1.67	307	234	151	114	92.8	54.4	38.6	25.4	17.3	14.2	12.4	6.54
1.70	303	230	149	113	92.3	53.7	38.4	25.0	17.1	13.9	12.4	6.51
1.75	283	224	137	111	92.1	53.0	37.9	24.7	17.0	13.8	12.4	6.49
1.80	263	209	128	110	91.5	52.2	37.0	24.6	16.6	13.5	11.8	6.46
1.85	218	183	118	101	85.1	51.0	36.6	23.5	16.0	13.4	11.6	6.09

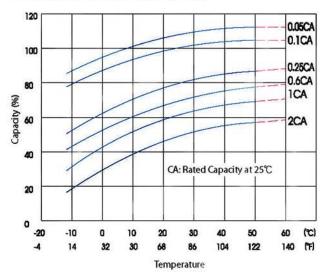
The operating environment temperature above 40°C should be avoided, after long term storage. The battery actual capacity would be less than the rated capacity. Full capacity will be obtained through several charge/discharge cycles. To get the longest life, Deutsche Power battery should be fully charged before storage.



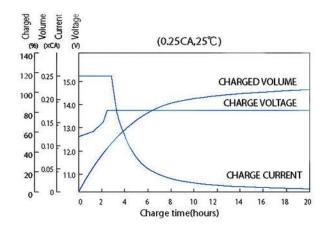
# Self-Discharge Characteristics



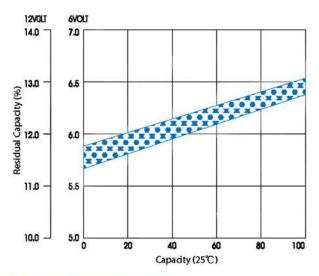
#### Temperature effects on capacity



### Constant voltage charge characteristic



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



#### Temperature effects float life

