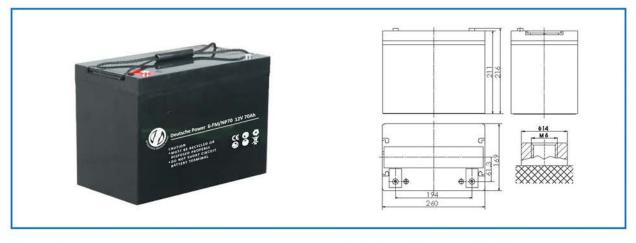
# 6-FM/NP70



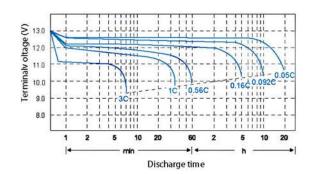
#### Specifications

Nomir	nal Voltage	12V					
Rated Cap	acity(20 hour rate)	70Ah					
	Total Height (with terminals)	8.51 inches (21 6mm)					
Dimensions	Height	8.31 inches (211 mm)					
	Length	10.24inche(260mm)					
	Width	6.65inches (169mm)					
	Weight	Approx. 47.08pound(21.4kg)					

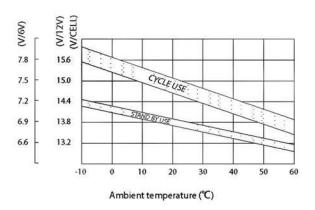
#### Characteristics

		20 hour rate (3.5A)	70.0Ah				
		10 hour rate (6.44A)	64.4Ah				
Capacity 77°F(25°C)		5 hourrate (11.2A)	56.0Ah				
77 (20 0)		1 hourrate (42A)	42.0Ah				
		Full charged Battery 77°F (25°C)	28.5Ah				
Internal Resistance		15 minute Rate (114A)	7.5mΩ				
		104°F(40°C)	102%				
Capacity affected by	,	77°F(25°C)	100%				
Temperature (20 hour		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%				
771(20 0)		Capacityafter 12 month storage 60%					
Max. Discharge Current 77°F(25°C)		665A(5S)					
Terminal		M1					
	V	Initial Charging Current less than 21 A					
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	151.9	117.6	71.4	56.1	37.9	26.46	18.27	12.25	8.68	6.86	5.89	3.03
1.70	143.5	109.9	60.8	53.0	36.3	25.83	17.50	11.83	8.33	6.71	5.71	2.98
1.80	121.1	95.9	54.9	50.1	34.6	24.71	16.52	11.20	7.84	6.44	5.55	2.93

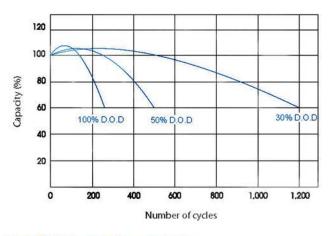
#### ■ Constant Power Discharge (WATTS PER CELL@25°C)

F.V/Time	10Min	15Min	30Mln	45MIn	1Hour	2Hour	3Hour	5Hour	8Hour	10Hour	12Hour	24Hour
1.60	273	209	137	103	83.2	48.8	34.3	22.5	15.3	12.7	11.0	5.76
1.65	271	207	133	102	82.3	48.2	33.9	22.3	15.2	12.5	10.9	5.74
1.67	269	204	132	100	81.2	47.6	33.8	22.2	15.1	12.4	10.7	5.72
1.70	265	202	130	98.9	80.7	46.9	33.6	21.8	14.9	12.1	10.7	5.69
1.75	247	196	119	97.1	80.5	46.4	33.1	21.7	14.8	12.0	10.7	5.67
1.80	231	183	112	96.1	80.1	45.6	32.4	21.6	14.6	11.9	10.4	5.66
1.85	190	161	104	88.4	74.5	44.6	32.0	20.5	14.0	11.8	10.2	5.33

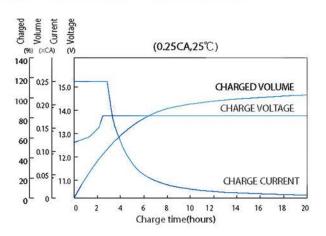
## 6-FM/NP70A

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.

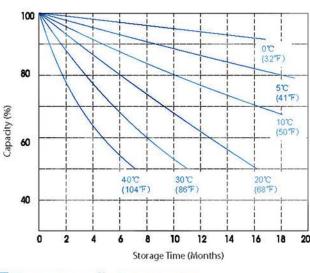
### Cycle service life in relation to depth of discharge



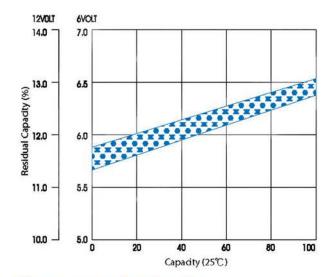
#### Constant voltage charge characteristic



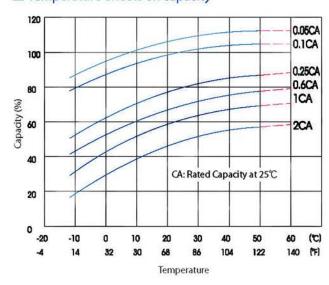
#### ■ Self-Discharge Characteristics



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



## ■ Temperature effects on capacity



■ Temperature effects float life

