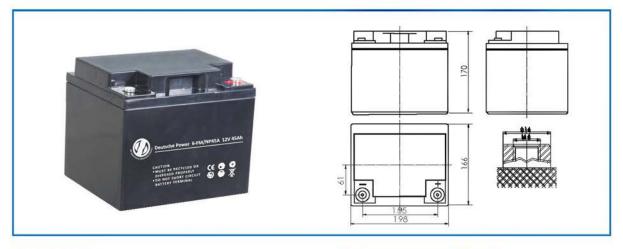
6-FM/NP45A



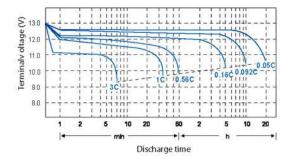
Specifications

Nomir	Nominal Voltage 12V					
Rated Cap	acity(20 hour rate)	45Ah				
		6.70inches (170mm)				
Dimensions	Height	6.70inches (170mm)				
	Length	7.80inches (198mm)				
	Width	6.54inches (166mm)				
	Weight	Approx. 30,36pound(13,8kg)				

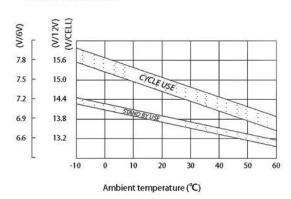
Characteristics

		20 hour rate (2.25A)	45.0Ah				
Canadh		10 hour rate (4.05A)	40.5Ah				
Capacity 77°F(25°C)		5 hourrate (7.20A)	36.0Ah				
, , , , , , , , , , , , , , , , , , , ,		1 hour rate (27.0A)	27.0Ah				
		15 minute Rate (74.4A)	18.6Ah				
Internal Resistance		Full charged Battery 77°F(25°C)	6.5mΩ				
		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%				
2012/2010 2010 2010		Capacityafter 3 month storage	91%				
Self-Discharge 77°F(20°C)		Capacityafter 6 month storage	81%				
771(20 C)		Capacityafter 12 month storage	60%				
Max, Discharge Current 77°F(25°C)		450A(5S)					
Terminal							
0.76		Initial Charging Current less than 13.5A					
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	97.7	75.6	45.9	36.0	24.39	17.01	11.75	7.88	5.58	4 .4 1	3.78	1.95
1.70	92.3	70.7	39.1	34.1	23.36	16.61	11.25	7.61	5.36	4.32	3.67	1.91
1.80	77.9	61.7	35.3	3 2 .2	22.23	15.89	10.62	7.20	5.04	4.14	3.57	1.88

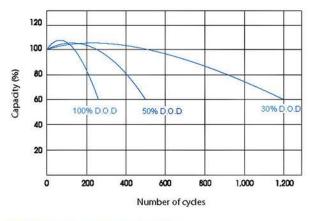
■ Constant Power Discharge (WATTS PER CELL@25°C)

F.V/Time	10Min	15Mln	30Min	45Min	1Hour	2Hour	3Hour	5Hour	8Hour	10Hour	12Hour	24Hour
1.60	169	134	83.1	62.4	52.8	29.9	21.3	14.3	9.47	8.01	6.85	3.45
1.65	164	131	82.6	61.9	51.2	29.0	21.0	14.1	9.41	7.93	6.75	3.43
1.67	162	128	81.5	60.8	50.4	28.9	20.9	14.0	9.30	7.84	6.68	3.40
1.70	160	126	80.1	59.7	49.6	28.7	20.7	13.7	9.18	7.77	6.59	3.33
1.75	151	120	79.8	58.7	49.3	28.5	20.6	13.6	9.09	7.70	6.42	3.27
1.80	138	111	75.9	56.6	48.4	27.9	20.1	13.4	8.79	7.44	6.30	3.17
1.85	115	99.0	69.1	53.8	45.0	26.9	19.6	12.7	8.54	7.11	6.06	3.08

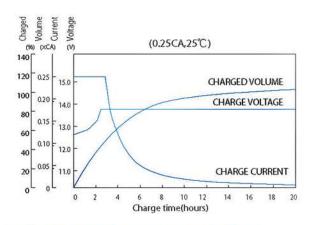
6-FM/NP45A

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.

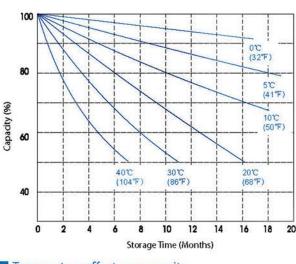
Cycle service life in relation to depth of discharge



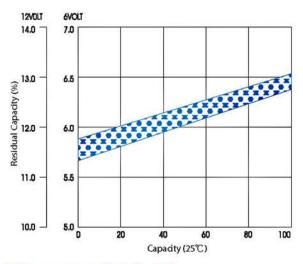
Constant voltage charge characteristic



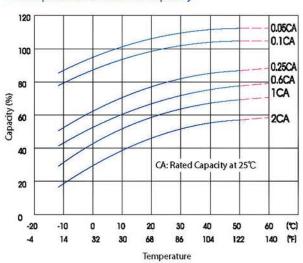
Self-Discharge Characteristics



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



Temperature effects on capacity



■ Temperature effects float life

