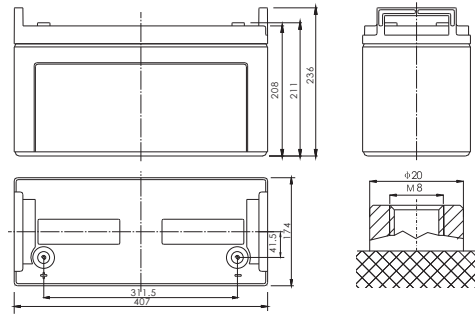


NAGM-12V-100B

FM Series Battery For General Use



Batteries come standard with a special tray



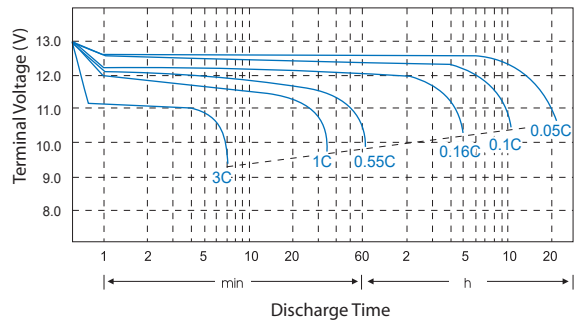
Specifications

Nominal Voltage		12V
Rated Capacity(10 hour rate)		100Ah
Dimensions	Total Height (with terminals)	9.29 inches(236mm)
	Height	8.19 inches(208mm)
	Length	16.02 inches(407mm)
	Width	6.85 inches(174mm)
Weight		Approx. 72.6 Pound(33.0kg)

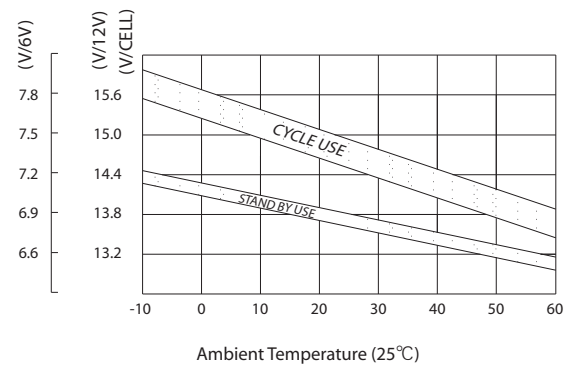
Characteristics

Capacity 77°F(25°C)	10 hour rate (10.0A)	100Ah
	5 hour rate (16.0A)	80Ah
	1 hour rate (60.0A)	60Ah
	15 minute Rate(164A)	41Ah
Internal Resistance	Full Charged Battery 77°F(25°C)	5mΩ
Capacity Affected by Temperature (20 hour rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(25°C)	Capacity after 3 months storage	91%
	Capacity after 6 months storage	81%
	Capacity after 12 months storage	60%
Max. Discharge Current 77°F(25°C)	800A(5S)	
Terminal	T3	
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 30A
		Voltage 14.1 V / 77°F (25°C) Equalization temperature compensation coefficient: -24MV/C
	Float	Voltage 13.5V / 77°F (25°C) Compensation coefficient of floating charging temperature: -18MV/C

Discharge Curves 77°F (25°C)



Relationship Between Charge Voltage and Temperature



Constant Current Discharge (Amperes @25°C)

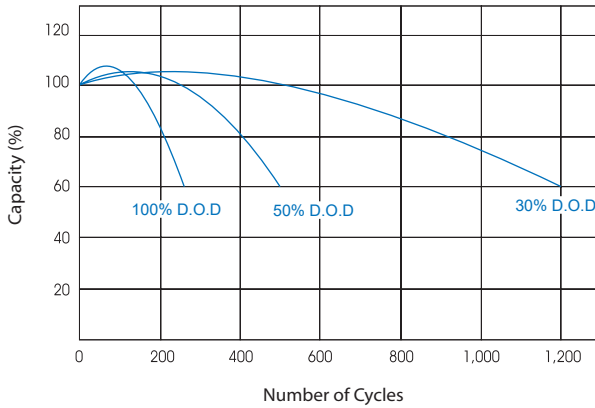
F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	226	164	106	63.4	36.9	25.9	20.6	17.8	12.1	10.8	5.71
1.65	217	158	102	61.0	35.5	25.8	20.4	17.7	12.0	10.7	5.66
1.70	205	151	86.8	60.5	34.6	25.7	19.9	17.5	11.9	10.5	5.56
1.75	180	142	81.5	60.0	34.3	25.5	19.3	16.9	11.6	10.4	5.51
1.80	173	137	78.4	57.7	33.0	25.0	18.5	16.0	11.2	10.0	5.50
1.85	142	119	72.1	53.1	31.7	24.5	17.6	15.4	10.6	9.62	5.09

Constant Power Discharge (Watts Per Cell@25°C)

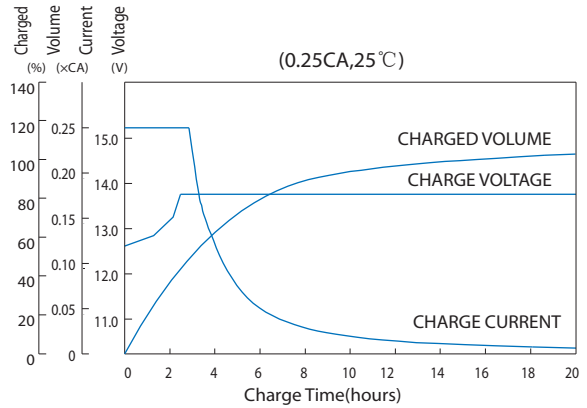
F.V/Time	10Min	15Min	30Min	60Min	2H	3H	4H	5H	8H	10H	20H
1.60	394	307	191	119	70.0	49.1	38.7	32.4	22.9	20.4	10.8
1.65	389	304	185	115	69.1	49.0	38.6	32.2	22.8	20.4	10.8
1.70	379	291	162	111	68.4	47.7	37.7	31.6	22.3	20.2	10.6
1.75	346	274	156	108	67.9	46.4	36.8	31.0	21.7	20.0	10.5
1.80	330	264	151	107	66.6	46.1	36.4	30.5	21.4	19.5	10.5
1.85	273	231	141	104	64.2	45.0	35.4	29.6	20.3	19.0	9.67

The operating environment temperature above 40°C should be avoided, After long time 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, NASTECH battery should be fully charged before storage.

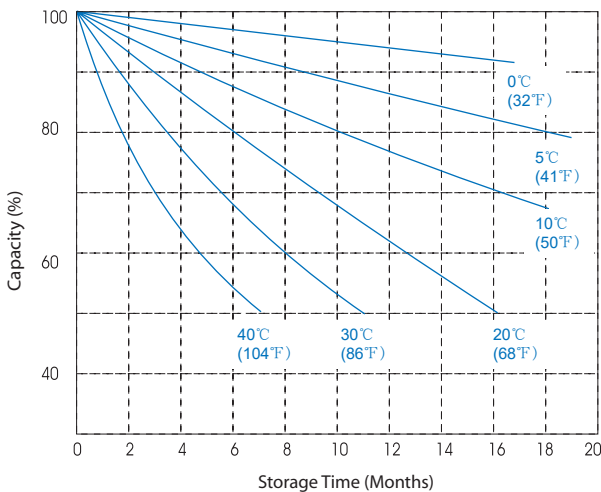
Cycle Service Life in Relation to Depth of Discharge



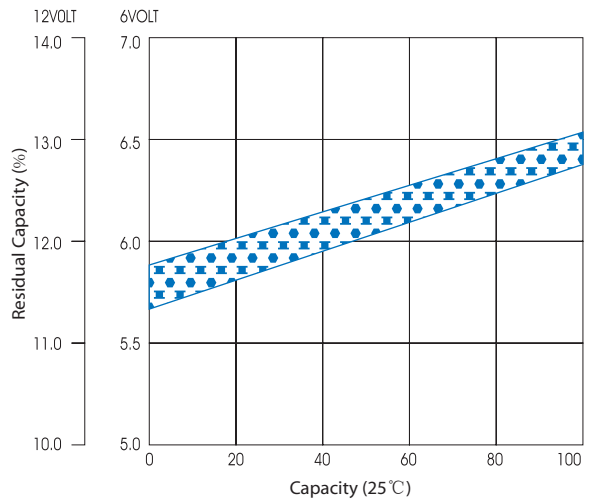
Constant Voltage Charge Characteristic



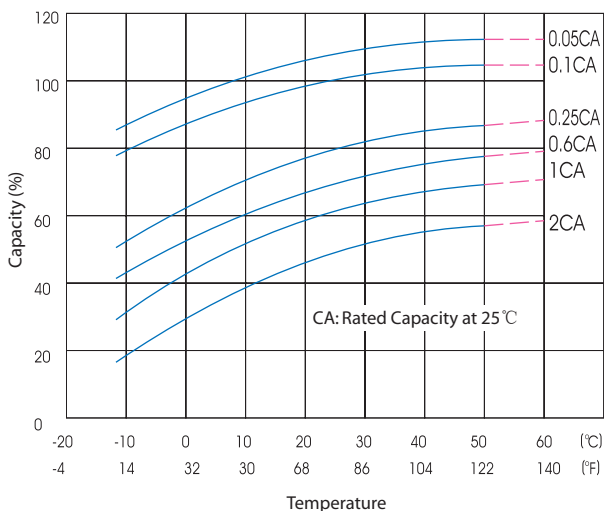
Self-Discharge Characteristics



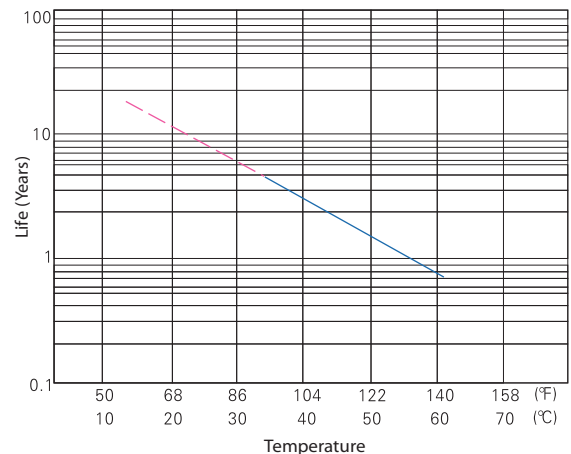
Relationship of OCV and Residual Capacity % (25°C)



Temperature Effects on Capacity



Temperature Effects Float Life



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Please forgive me.
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