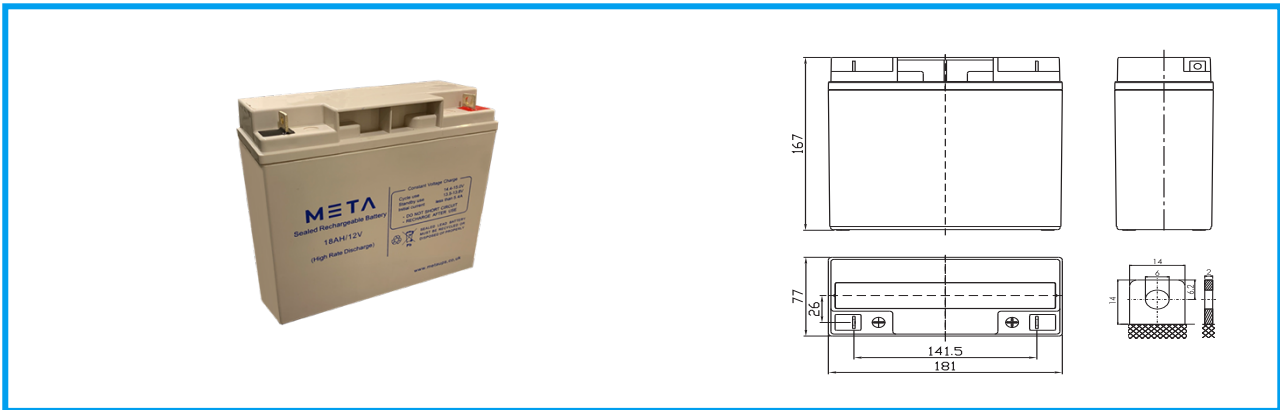


12V 18Ah



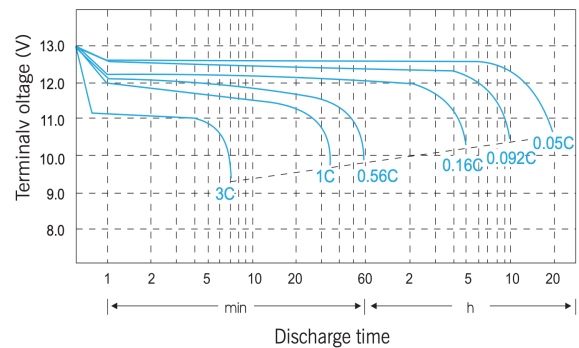
■ Specifications

Nominal Voltage		12V
Rated Capacity(20 hour rate)		18Ah
Dimensions	Total Height (with terminals)	6.57inches (167mm)
	Height	6.57inches (167mm)
	Length	7.13inches (181mm)
	Width	3.03inches (77mm)
Weight		Approx. 13.66pound (6.2kg)

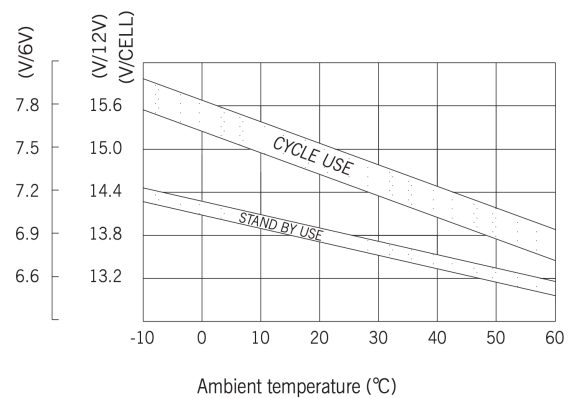
■ Characteristics

Capacity 77°F(25°C)	20 hour rate (0.9A)	18.0Ah
	10 hour rate (1.67A)	16.7Ah
	5 hour rate (2.88A)	14.4Ah
	1 hour rate (10.8A)	10.8Ah
	15 minute Rate (31.8A)	7.9Ah
Internal Resistance	Full charged Battery 77°F(25°C)	14mΩ
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(20°C)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	81%
	Capacity after 12 month storage	60%
Max. Discharge Current 77°F(25°C)	270A(5S)	
Terminal	B1/M4	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 5.4A Voltage 14.4~14.7V/ 77°F(25°C)
	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)

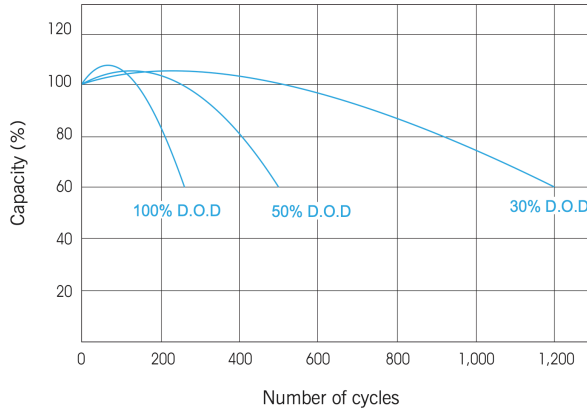
F.V/Time	5Min	10Min	15Min	20Min	30Min	45Min	60Min
1.6	60.6	42.6	31	22.8	19.2	13.7	11.1
1.65	58.5	39.3	29	21.4	18.1	13.1	10.7
1.7	55.8	36	27.3	22.5	22.1	12.8	10.3
1.75	53.4	33	25.6	19.1	16.5	12.3	10
1.8	50.5	30.8	23.4	17.9	15.9	11.9	9.58

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

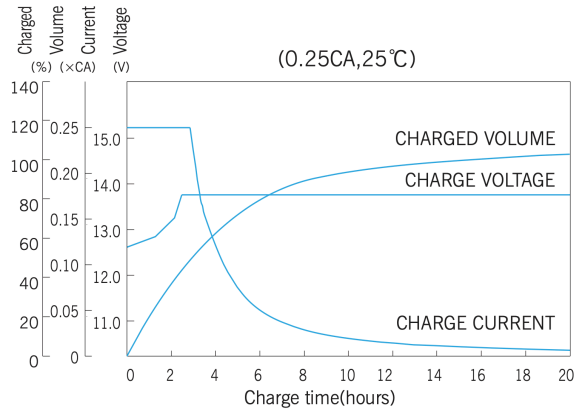
Cut off Voltage V/C	5Min	10Min	15Min	20Min	30Min	45Min	60Min
1.6	123	78.6	59.9	43.1	35	26	21
1.65	120	78.1	59.5	42.7	34.4	25.7	20.9
1.7	115	76.6	58.7	41.5	32.7	24.9	20.4
1.75	112	75.8	58.2	40.9	31.8	23.9	21.1
1.8	107	73.4	55.2	39.1	30.8	23	20.1

The operating environment temperature above 40C 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, META battery should be fully charged before storage.

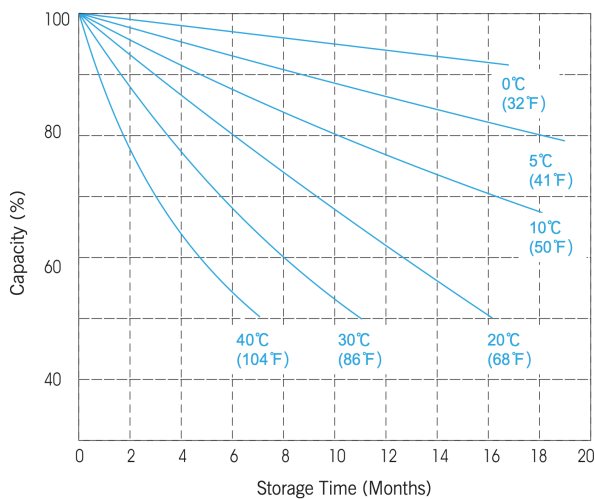
■ Cycle service life in relation to depth of discharge



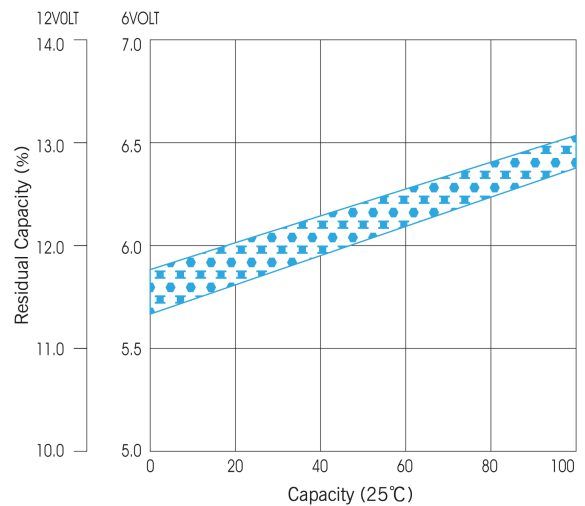
■ Constant voltage charge characteristic



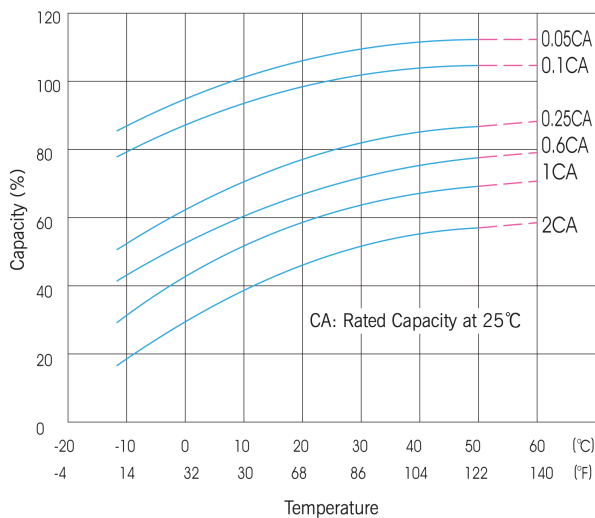
■ Self-Discharge Characteristics



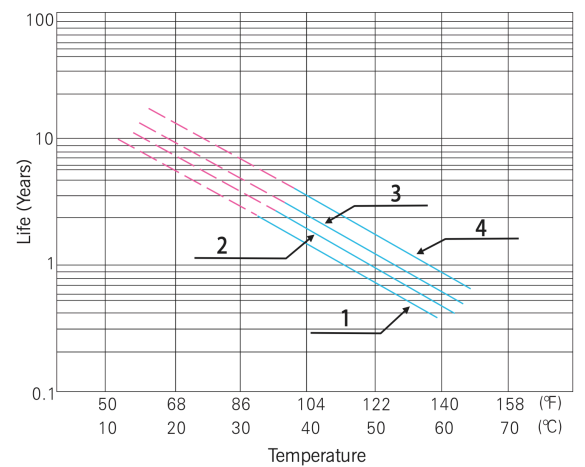
■ Relationship of OCV and Residual Capacity % (25°C)



■ Temperature effects on capacity



■ Temperature effects float life



- 1----- For FM series
- 2----- For FML series
- 3----- For FMH series
- 4----- For GFM series