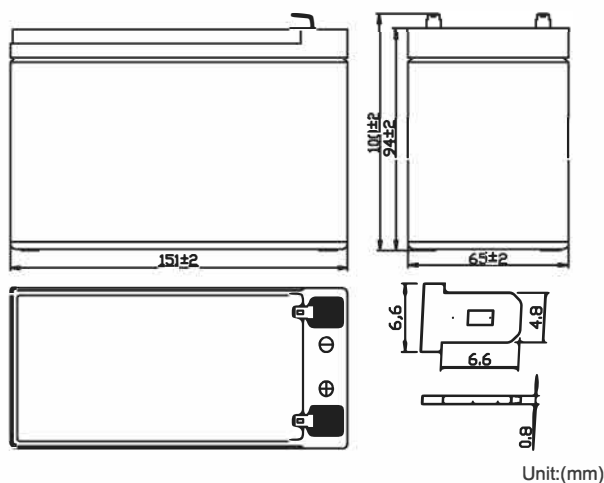


INDUSTRIAL BATTERY - VRLA-AGM BATTERY - SMALL SERIES

MODEL: BAT0403



Plane Chart:



Parameter

Rated Voltage	12V	
Nominal Capacity(25°C)	7.0Ah(C ₂₀ , 10.5V)	
Dimension	Length	151±2mm(5.94 inch)
	Width	65±2mm(2.56 inch)
	Container Height	94±2mm(3.70 inch)
	Total Height	100±2mm(3.94 inch)
Weight±3%	2.09Kg(4.61 lbs)	
Terminal	F1	
Container Material	ABS UL94 HB, UL94 V-0 Optional	
Rated Capacity(25°C)	5.70Ah	(5HR, 1.14A, 10.5V)
	5.25Ah	(3HR, 1.75A, 10.2V)
	4.16Ah	(1HR, 4.16A, 9.6V)
Full charged Internal Resistance(25°C)	Approx.28mΩ	
Operating Temp.Range	Discharge	-20°C~50°C(-4°F~122°F)
	Charge	-20°C~40°C(-4°F~104°F)
	Storage	-20°C~40°C(-4°F~104°F)
Nominal Operating Temp.Range	25±3°C(77±5°F)	
Max.Charging Current(25°C)	2.1A	
Charge Voltage(25°C)	Cycle	14.5~14.9V
	Temp. Coefficient	-30mV/°C
	Float	13.6~13.8V
	Temp. Coefficient	-18mV/°C
Self Discharge(25°C)	≤3% per month	
Design service life(25°C)	6 years	

Constant Current Discharge Characteristics (A, 25°C)

F.V./Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	24.2	15.2	12.1	9.5	7.15	4.16	2.32	1.78	1.40	1.18	0.770	0.670	0.355
10.02V	22.1	14.4	11.5	9.1	7.00	3.98	2.27	1.76	1.38	1.17	0.762	0.664	0.353
10.20V	21.5	13.9	11.3	9.0	6.92	3.93	2.25	1.75	1.37	1.16	0.758	0.662	0.352
10.50V	19.6	12.5	10.8	8.6	6.75	3.82	2.23	1.73	1.35	1.14	0.749	0.656	0.350
10.80V	18.2	10.8	10.1	8.3	6.48	3.72	2.20	1.70	1.33	1.12	0.740	0.650	0.340

Constant Power Discharge Characteristics (Watt, 25°C)

F.V./Time	5min	10min	15min	20min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	258.0	169.9	137.1	108.3	81.9	48.3	27.1	20.9	16.5	14.0	9.12	7.95	4.23
10.02V	236.5	161.3	130.5	103.7	80.2	46.2	26.6	20.7	16.3	13.8	9.02	7.88	4.20
10.20V	230.5	156.2	128.3	102.6	79.4	45.6	26.3	20.6	16.2	13.7	8.97	7.85	4.19
10.50V	212.1	140.6	122.7	98.0	77.6	44.4	26.1	20.3	15.9	13.5	8.87	7.78	4.16
10.80V	200.2	121.7	115.1	94.6	74.6	43.3	25.8	20.0	15.7	13.2	8.76	7.71	4.05

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

MODEL: BAT0403

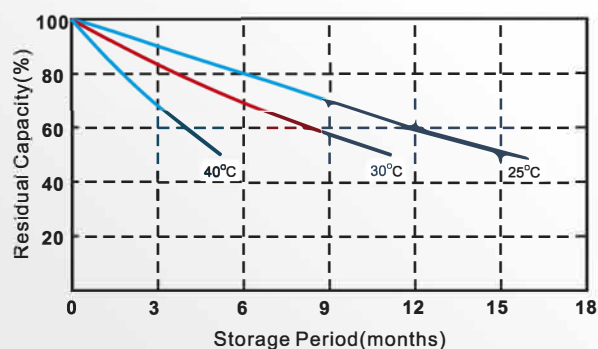
Application scope

- Uninterruptable Power Supply(UPS)
- Industrial Process Control Facilities
- Data Network & Operation Centers
- Power supply system for electric tools

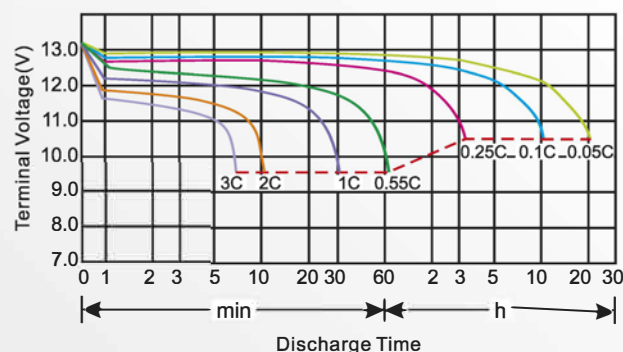
- Emergency Power Supply(EPS)
- Hospitals & Testing Laboratories
- Banks & Financial Markets
- Security alarm system



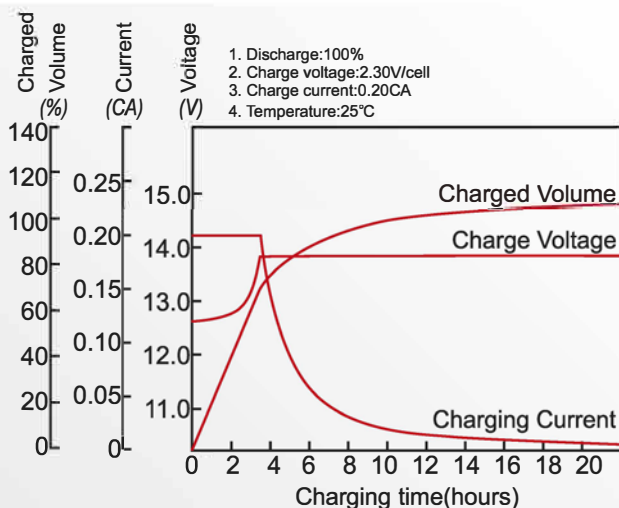
Residual Capacity



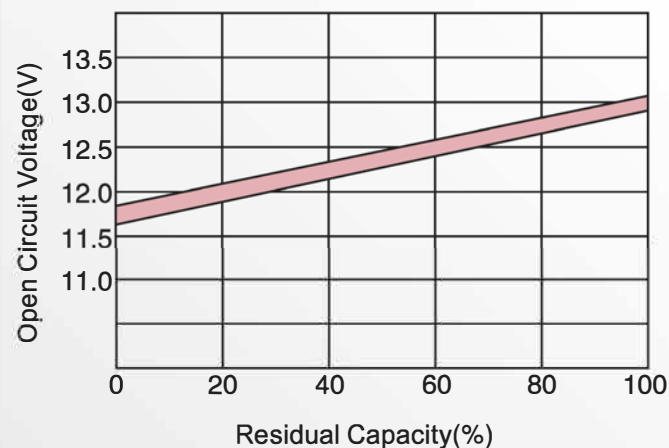
Discharge Current 25°C



Constant voltage charging characteristics



The relationship for OCV and Capacity 25°C



Capacity Factors With Different Temperature

-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

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