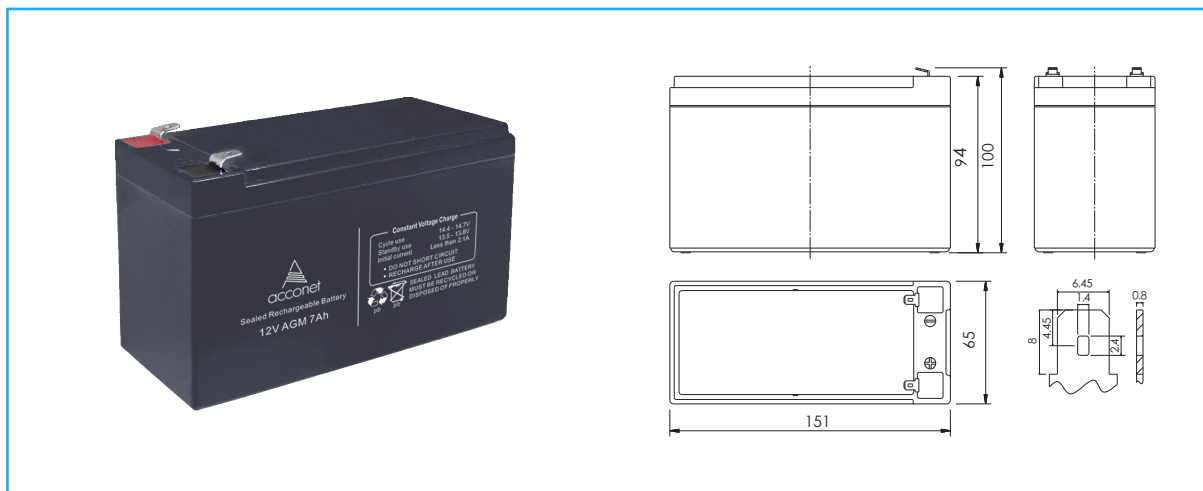




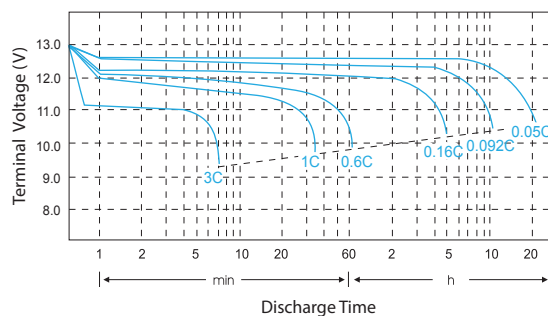
Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		7.0Ah
Dimensions	Total Height (with terminals)	100mm
	Height	94mm
	Length	151mm
	Width	65mm
Weight		2.0kg

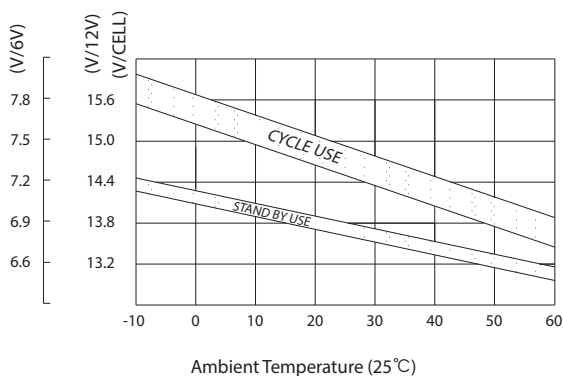
Characteristics

Capacity 25°C	20 hour rate (0.35A)	7.0 Ah
	10 hour rate (0.65A)	6.5 Ah
	5 hour rate (1.12A)	5.6 Ah
	1hour rate (4.20 A)	4.2 Ah
	15minute rate (12.3 A)	3.1 Ah
Internal Resistance	Full Charged Battery 25°C	22mΩ
Capacity Affected by Temperature (20hour rate)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge 25°C	Capacity after 3 months storage	91%
	Capacity after 6 months storage	81%
	Capacity after 12 months storage	60%
Max. Discharge Current 25°C	105A(5S)	
Terminal	F1 \ F2	
Charge (Constant Voltage)	Cycle	Initial Charging Current Less than 2.1A
		Voltage 14.4 V / 25 °C
		Equalization temperature compensation coefficient: -24mV / °C
	Float	Voltage 13.8V / 25 °C
		Compensation coefficient of floating charging temperature: -18mV / °C

Discharge Curves 25°C



Relationship Between Charge Voltage and Temperature



Constant Current Discharge (Amperes @25°C)

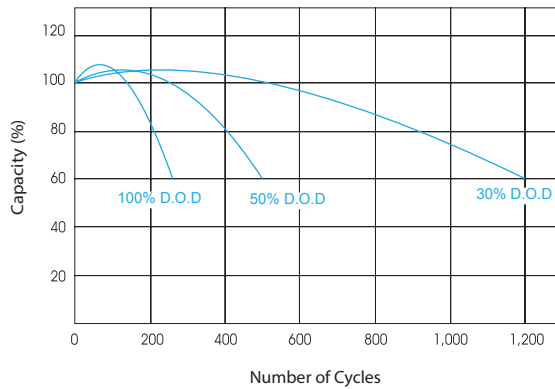
F.V/Time	5Min	10Min	15Min	30Min	60Min	2H	3H	4H	5H	10H	20H
1.60	26.7	16.9	12.3	7.56	4.45	2.61	1.80	1.40	1.15	0.669	0.359
1.65	26.0	16.5	11.9	7.36	4.37	2.52	1.77	1.37	1.14	0.653	0.356
1.70	24.9	15.8	11.4	7.22	4.29	2.49	1.76	1.36	1.14	0.653	0.353
1.75	23.8	15.1	11.2	7.14	4.20	2.46	1.76	1.34	1.12	0.650	0.350
1.80	22.4	15.0	10.9	6.94	4.12	2.38	1.73	1.33	1.10	0.638	0.342

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

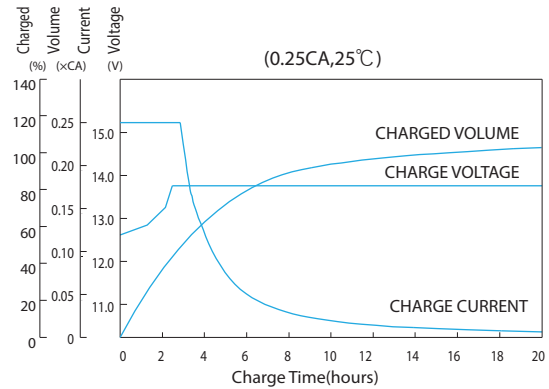
F.V/Time	5Min	10Min	15Min	30Min	60Min	2H	3H	4H	5H	10H	20H
1.60	49.5	31.6	23.4	14.4	8.06	5.08	3.58	2.79	2.29	1.32	0.710
1.65	48.5	30.9	22.6	14.0	7.96	4.93	3.53	2.73	2.27	1.31	0.708
1.70	46.1	29.6	21.7	13.8	7.81	4.85	3.50	2.72	2.27	1.31	0.705
1.75	44.3	28.5	21.3	13.7	7.63	4.80	3.50	2.69	2.24	1.31	0.703
1.80	41.7	28.3	20.8	13.2	7.51	4.67	3.45	2.66	2.21	1.28	0.690

The operating environment temperature should not exceed 40°C. After prolonged storage, the battery's actual capacity would be less than the rated capacity. Full capacity will be obtained through several charge/discharge cycles.

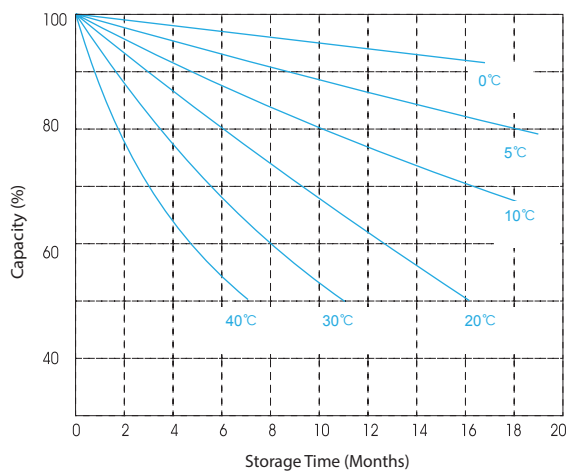
Cycle Service Life in Relation to Depth of Discharge



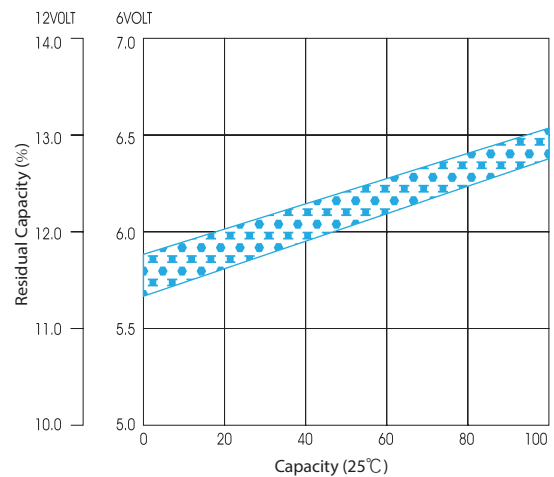
Constant Voltage Charge Characteristic



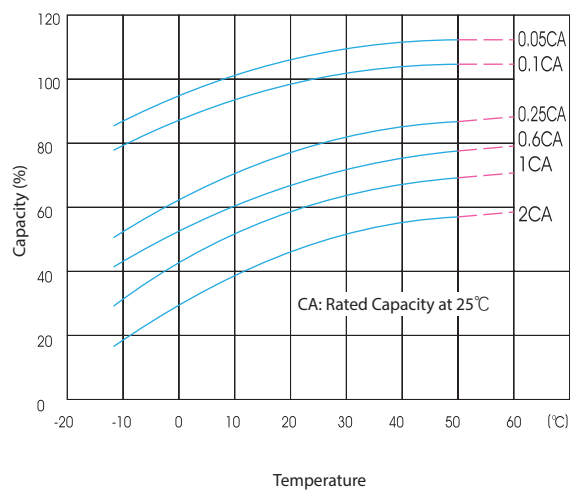
Self-Discharge Characteristics



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



Temperature Effects on Capacity



Temperature Effects Float Life

