

**Specifications**

Nominal Voltage		4 V
Capacity (25°C)	20HR(3.50V)	3.3Ah
	10HR(3.50V)	3.1Ah
	1HR(3.20V)	2.15Ah
Dimension	Length	32 ± 1mm (1.26inch)
	Width	32 ± 1mm (1.26inch)
	Height	135 ± 2mm (5.31inch)
	Total Height	146 ± 2mm (5.75inch)
Approx. Weight		0.35kg (0.77lbs) ± 5%
Terminal type		T1
Internal resistance (Fully charged, 25°C)		Approx. 25mΩ
Capacity affected by temperature (20HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 50°C (5°F ~ 122°F)
	Charge	-10°C ~ 50°C (14°F ~ 122°F)
	Storage	-20°C ~ 50°C (-4°F ~ 122°F)
Float charging voltage(25°C)		4.50 to 4.60V Temperature compensation: -6mV/°C
Cyclic charging voltage(25°C)		4.85 to 4.95V Temperature compensation: -10mV/°C
Maximum charging current		1.2A
Terminal material		Copper
Maximum discharge current		60A(5 sec.)
Designed floating life(20°C)		3~5 years

- ◆ Absorbent glass mat technology;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

**Constant Current Discharge Characteristics (A, 25°C)**

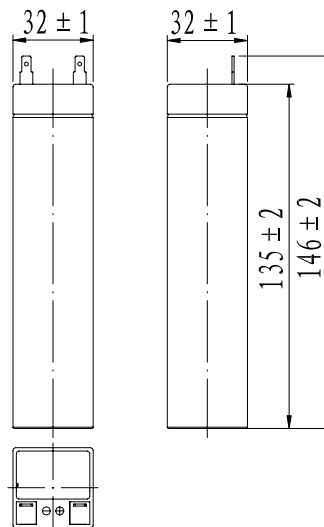
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
3.20V	12.5	7.92	6.27	3.50	2.15	1.17	0.84	0.67	0.57	0.31	0.17
3.30V	12.2	7.68	6.12	3.43	2.11	1.17	0.84	0.67	0.57	0.31	0.17
3.40V	11.7	7.37	5.89	3.32	2.06	1.16	0.83	0.66	0.56	0.31	0.17
3.50V	11.2	7.05	5.69	3.24	2.02	1.14	0.83	0.66	0.56	0.31	0.17
3.60V	10.5	6.65	5.39	3.12	1.96	1.11	0.80	0.64	0.54	0.30	0.16

**Constant Power Discharge Characteristics (Watt, 25°C)**

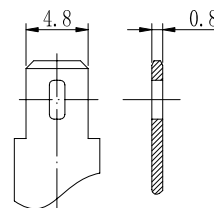
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
3.20V	46.6	29.8	23.8	13.4	8.28	4.57	3.33	2.67	2.28	1.25	0.67
3.30V	45.2	28.9	23.3	13.1	8.16	4.55	3.31	2.66	2.26	1.24	0.67
3.40V	43.4	27.7	22.4	12.7	7.95	4.50	3.29	2.64	2.25	1.23	0.66
3.50V	41.5	26.5	21.6	12.4	7.79	4.44	3.27	2.62	2.23	1.23	0.66
3.60V	39.2	25.0	20.5	11.9	3.78	4.32	3.17	2.54	2.17	1.20	0.65

Note: The above characteristics data can be obtained within three charge/discharge cycles.

**Dimensions**

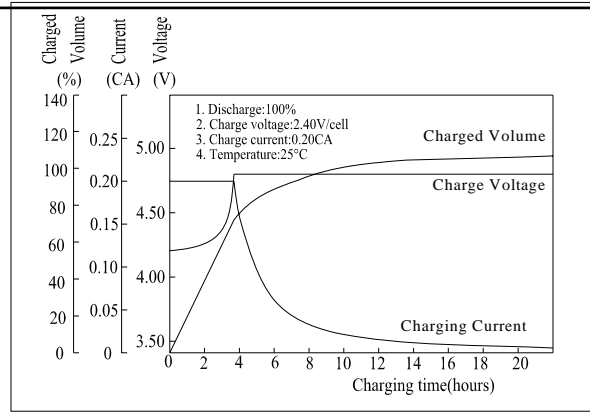
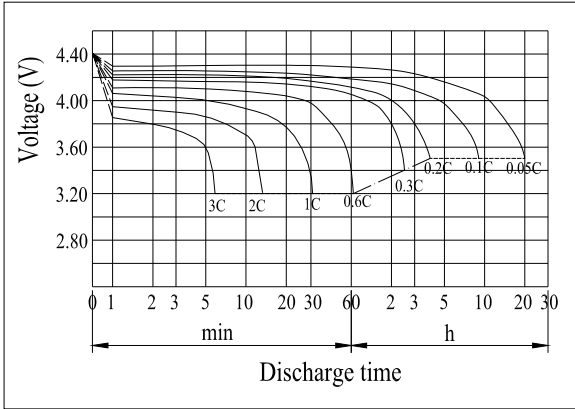


**Terminal**

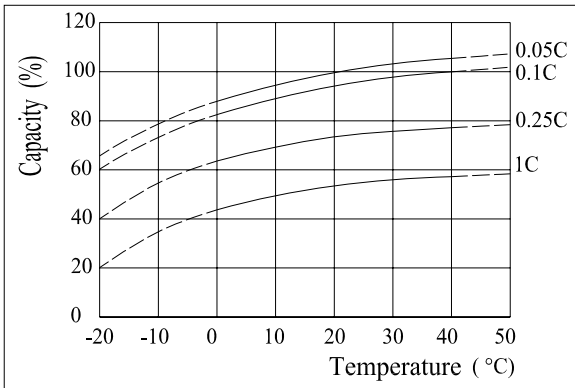


Terminal T1

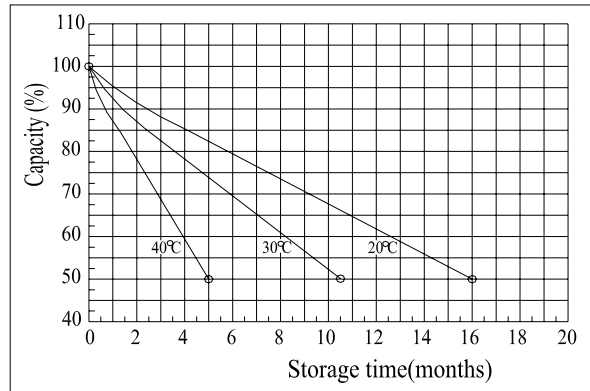
**Discharge Characteristics(25°C)**



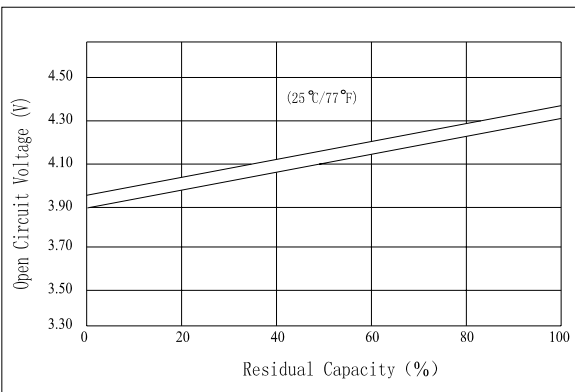
**Effect of Temperature on Capacity**



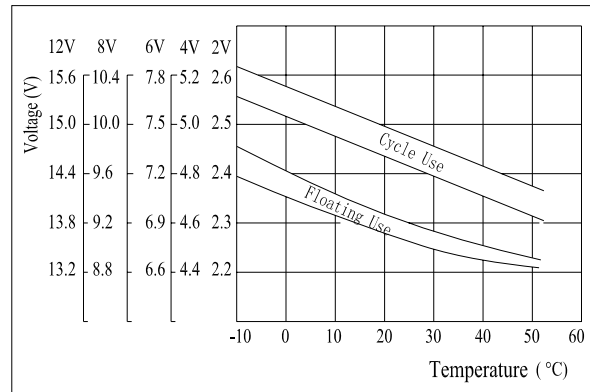
**Self-discharge Characteristics**



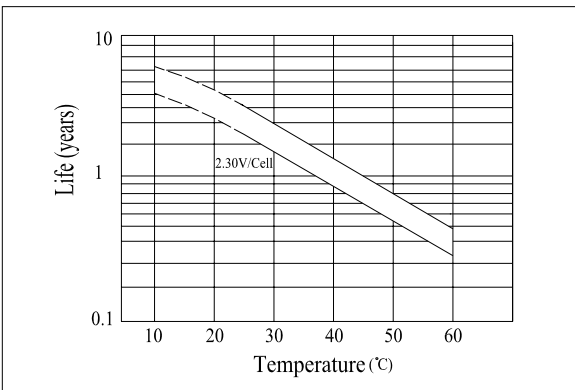
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



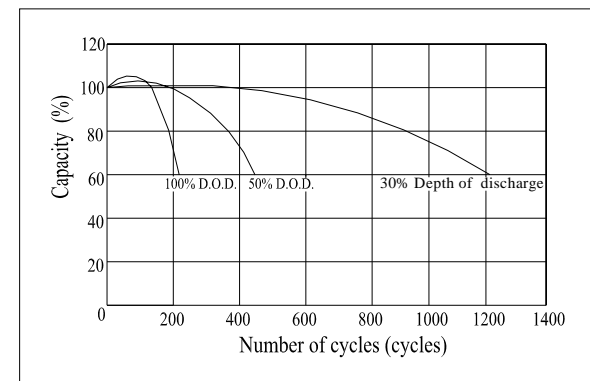
**The Relationship for Charging Voltage and Temperature**



**Floating Life on Temperature**



**Cycle Life on D.O.D(25°C)**



**Charging Characteristics(25°C)**