

**Specifications**

Nominal Voltage		4 V
Capacity (25°C)	20HR(3.50V)	10Ah
	10HR(3.50V)	9.3Ah
	1HR(3.20V)	6.5Ah
Dimension	Length	102 ± 1mm (4.02inch)
	Width	44 ± 1mm (1.73inch)
	Height	95 ± 1mm (3.74inch)
	Total Height	101 ± 1mm (3.98inch)
Approx. Weight		1.05kg (2.32lbs) ± 5%
Terminal type		T2/T1
Internal resistance (Fully charged, 25°C)		Approx. 8m Ω
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		3.0A
Terminal material		Copper
Maximum discharge current		150A(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)**

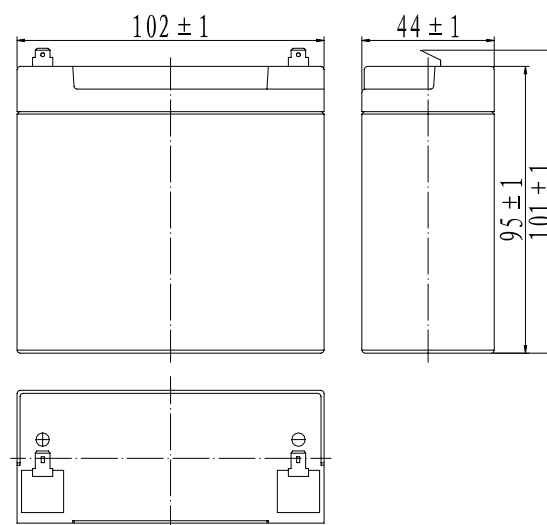
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
3.20V	24.0	19.0	10.6	6.50	3.55	2.55	2.04	1.73	1.12	0.94	0.51
3.30V	23.3	18.5	10.4	6.40	3.53	2.54	2.03	1.72	1.12	0.94	0.51
3.40V	22.3	17.9	10.1	6.24	3.50	2.52	2.01	1.71	1.11	0.94	0.50
3.50V	21.4	17.3	9.83	6.12	3.45	2.50	2.00	1.70	1.10	0.93	0.50
3.60V	20.2	16.3	9.47	5.93	3.36	2.43	1.94	1.65	1.07	0.91	0.49

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

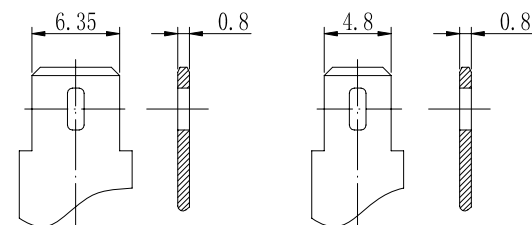
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
3.20V	90.2	72.2	40.5	25.1	13.9	10.1	8.10	6.90	4.49	3.78	2.03
3.30V	87.5	70.5	39.7	24.7	13.8	10.0	8.05	6.86	4.46	3.76	2.02
3.40V	83.9	67.9	38.5	24.1	13.7	9.97	8.00	6.81	4.43	3.74	2.01
3.50V	80.3	65.6	37.5	23.6	13.4	9.90	7.94	6.77	4.40	3.72	2.00
3.60V	75.8	62.1	36.2	11.4	13.1	9.60	7.70	6.56	4.27	3.65	1.96

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

**Dimensions**



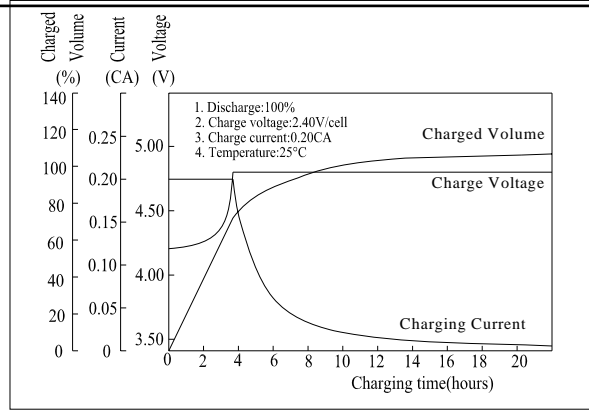
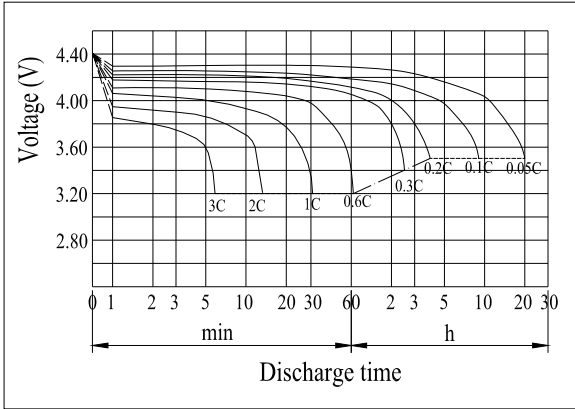
**Terminal**



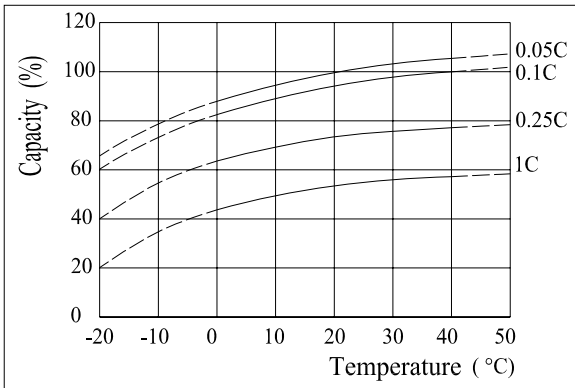
Terminal T2

Terminal T1

**Discharge Characteristics(25°C)**



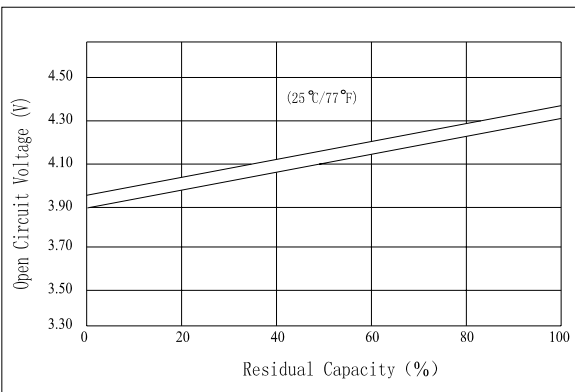
**Effect of Temperature on Capacity**



**Self-discharge Characteristics**



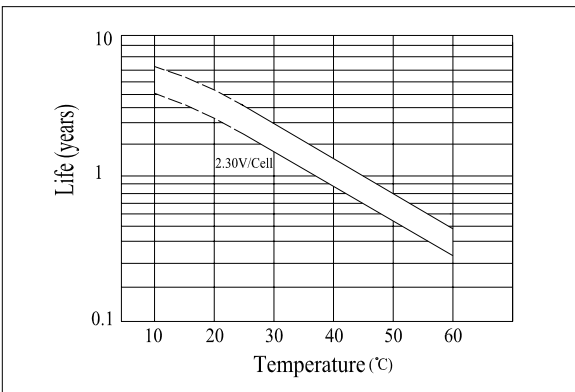
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



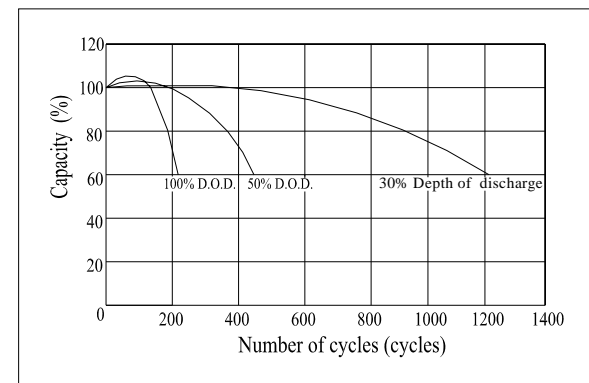
**The Relationship for Charging Voltage and Temperature**



**Floating Life on Temperature**



**Cycle Life on D.O.D(25°C)**



**Charging Characteristics(25°C)**