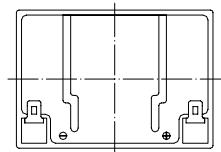
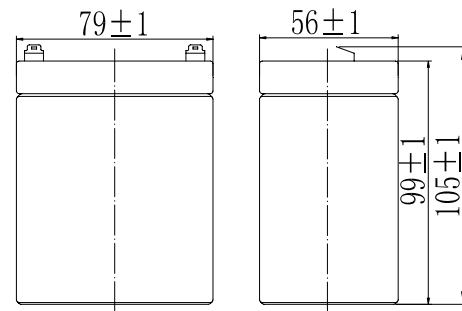
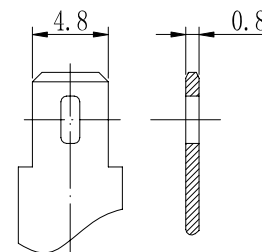


**Specifications**

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	2.9Ah
	10HR(10.5V)	2.7Ah
	1HR(9.60V)	1.89Ah
Dimension	Length	79 ± 1mm (3.11inch)
	Width	56 ± 1mm (2.20inch)
	Height	99 ± 1mm (3.90inch)
	Total Height	105 ± 1mm (4.13inch)
Approx. Weight		1.05kg (2.32lbs) ± 5%
Terminal type		T1
Internal resistance (Fully charged, 25°C)		Approx. 42mΩ
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)	13.60 to 13.80V Temperature compensation: -18mV/°C	
Cyclic charging voltage(25°C)	14.50 to 14.90V Temperature compensation: -30mV/°C	
Maximum charging current	0.87A	
Terminal material	Copper	
Maximum discharge current	43.5A(5 sec.)	
Designed floating life(20°C)	10years	

**Dimensions**

**Terminal**


Terminal T1

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

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

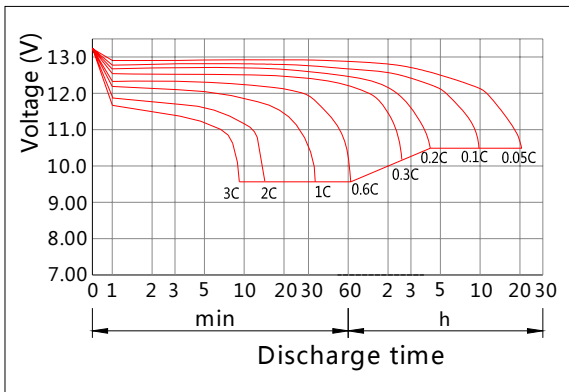
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	11.0	6.96	5.51	3.07	1.89	1.03	0.74	0.59	0.50	0.27	0.147
9.90V	10.7	6.75	5.38	3.01	1.86	1.02	0.74	0.59	0.50	0.27	0.147
10.2V	10.2	6.47	5.18	2.92	1.81	1.02	0.73	0.58	0.50	0.27	0.146
10.5V	9.81	6.19	5.00	2.85	1.77	1.00	0.73	0.58	0.49	0.27	0.145
10.8V	9.26	5.85	4.74	2.75	1.72	0.97	0.70	0.56	0.48	0.26	0.142

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

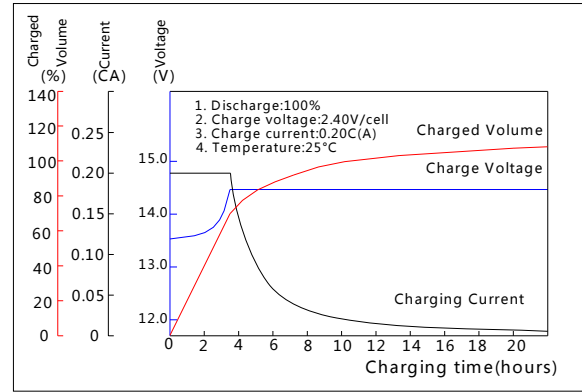
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	123	78.5	62.8	35.2	21.8	12.1	8.79	7.05	6.00	3.28	1.77
9.90V	119	76.2	61.3	34.5	21.5	12.0	8.73	7.00	5.97	3.27	1.76
10.2V	114	73.0	59.0	33.5	21.0	11.9	8.67	6.96	5.93	3.26	1.75
10.5V	109	69.9	57.0	32.7	20.5	11.7	8.61	6.91	5.89	3.24	1.74
10.8V	103	65.9	54.0	31.5	19.9	11.4	8.35	6.70	5.71	3.17	1.71

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

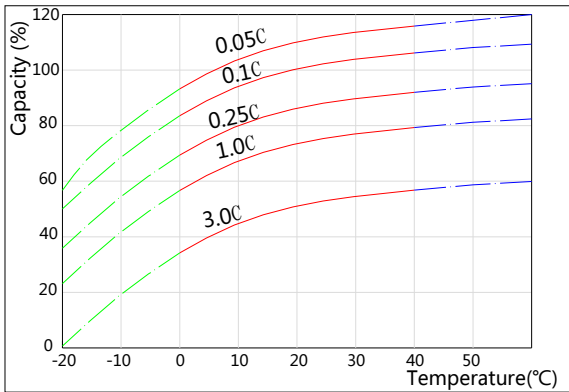
**Discharge Characteristics(25°C)**



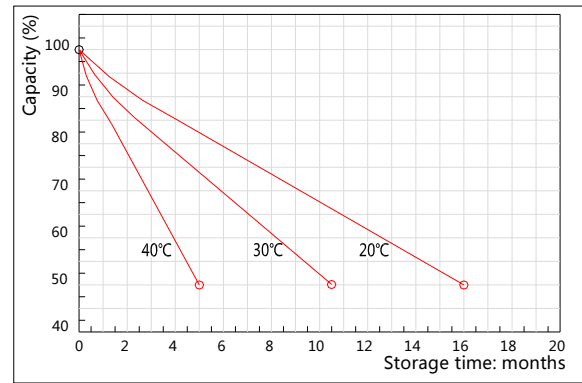
**Charging Characteristics(25°C)**



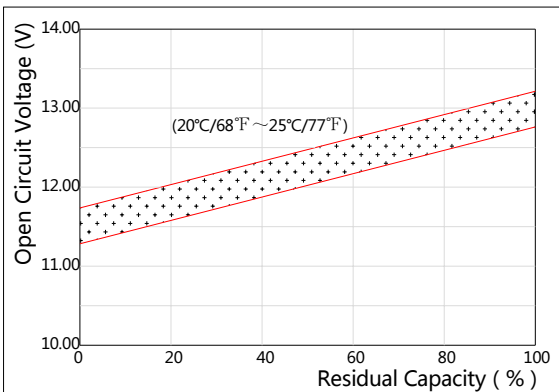
**Effect of Temperature on Capacity**



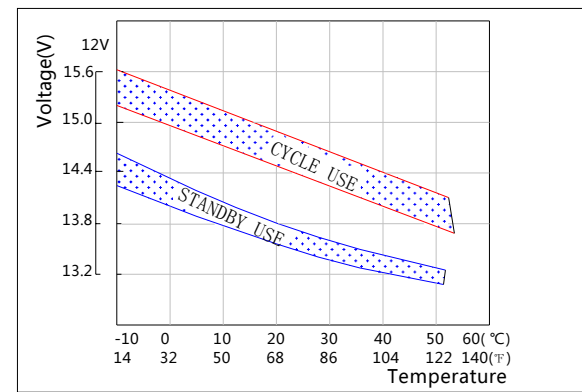
**Self-discharge Characteristics**



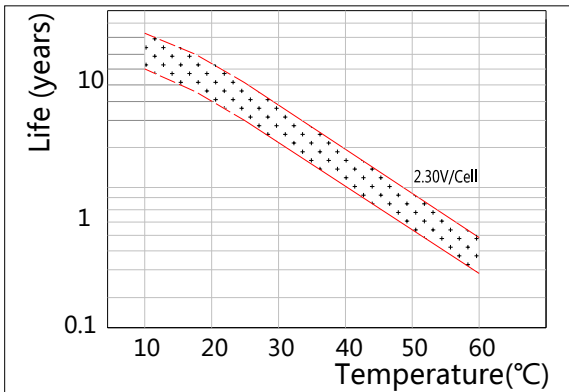
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



**The Relationship for Charging Voltage and Temperature**



**Floating Life on Temperature**



**Cycle Life on D.O.D(25°C)**

