

**Specifications**

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	3.2Ah
	10HR(10.5V)	3.0Ah
	1HR(9.60V)	2.08Ah
Dimension	Length	134 ± 1mm (5.28inch)
	Width	67 ± 1mm (2.64inch)
	Height	61 ± 1mm (2.40inch)
	Total Height	67 ± 1mm (2.64inch)
Approx. Weight		1.22kg (2.68lbs) ± 5%
Terminal type		T1
Internal resistance (Fully charged, 25°C)		Approx. 52mΩ
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	0.96A	
Terminal material	Copper	
Maximum discharge current	48A(5 sec.)	
Designed floating life(20°C)	10years	

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

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

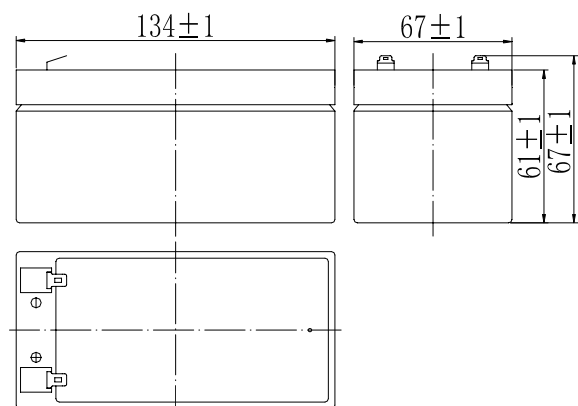
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	12.2	7.68	6.08	3.39	2.08	1.14	0.82	0.65	0.55	0.30	0.16
9.90V	11.8	7.45	5.93	3.32	2.05	1.13	0.81	0.65	0.55	0.30	0.16
10.2V	11.3	7.14	5.72	3.22	2.00	1.12	0.81	0.64	0.55	0.30	0.16
10.5V	10.8	6.84	5.52	3.14	1.96	1.10	0.80	0.64	0.54	0.30	0.16
10.8V	10.2	6.45	5.23	3.03	1.90	1.08	0.78	0.62	0.53	0.29	0.15

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

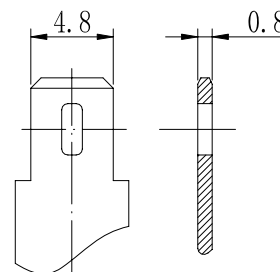
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	136	86.6	69.3	38.9	24.1	13.3	9.69	7.77	6.63	3.62	1.95
9.90V	132	84.0	67.6	38.1	23.7	13.2	9.64	7.73	6.59	3.61	1.94
10.2V	126	80.6	65.2	36.9	23.1	13.1	9.57	7.68	6.54	3.59	1.93
10.5V	121	77.1	62.9	36.0	22.7	12.9	9.50	7.62	6.50	3.57	1.92
10.8V	114	72.8	59.6	34.7	22.0	12.6	9.22	7.39	6.30	3.50	1.88

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

**Dimensions**

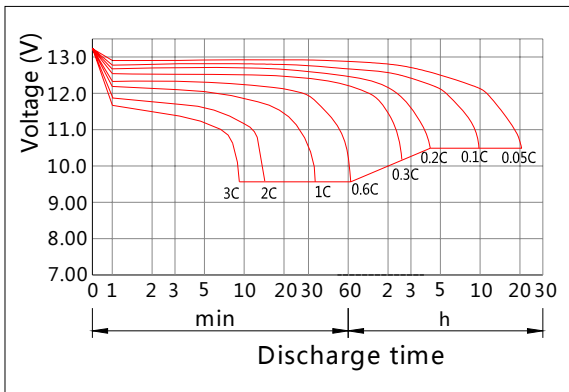


**Terminal**

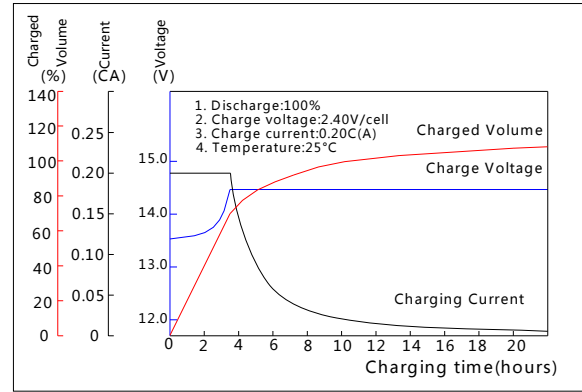


Terminal T1

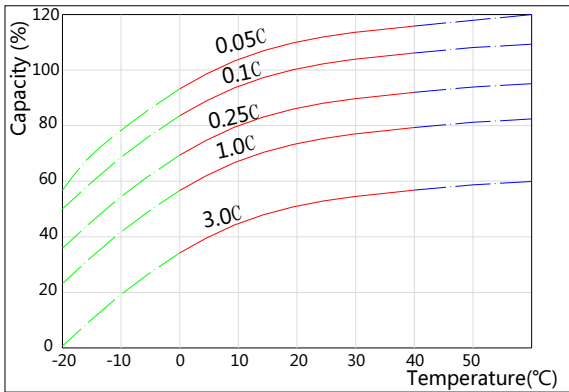
**Discharge Characteristics(25°C)**



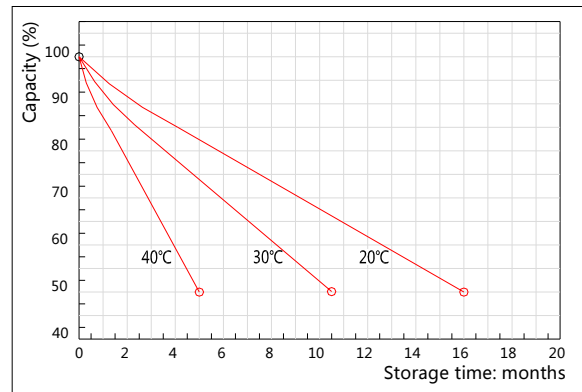
**Charging Characteristics(25°C)**



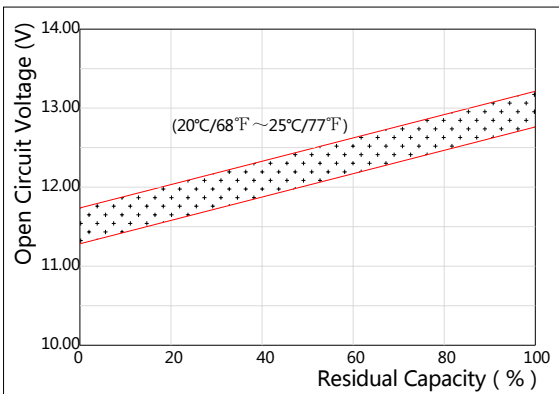
**Effect of Temperature on Capacity**



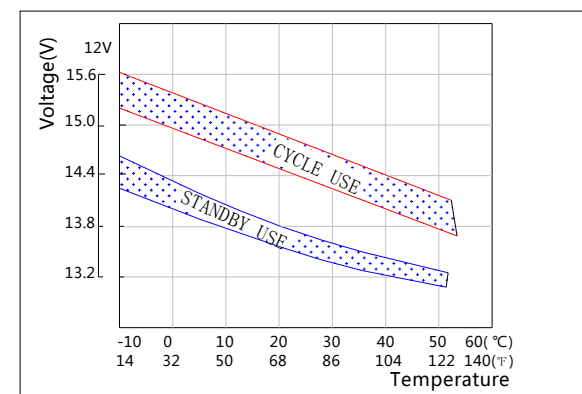
**Self-discharge Characteristics**



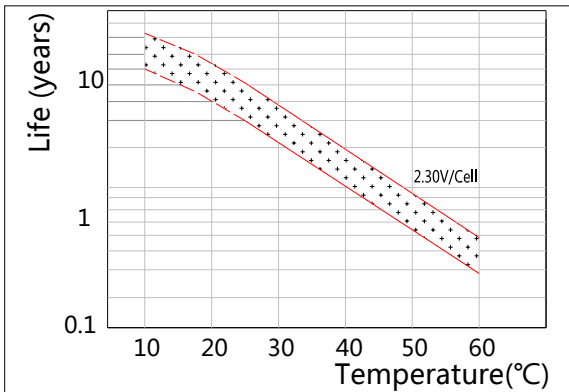
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



**The Relationship for Charging Voltage and Temperature**



**Floating Life on Temperature**



**Cycle Life on D.O.D(25°C)**

