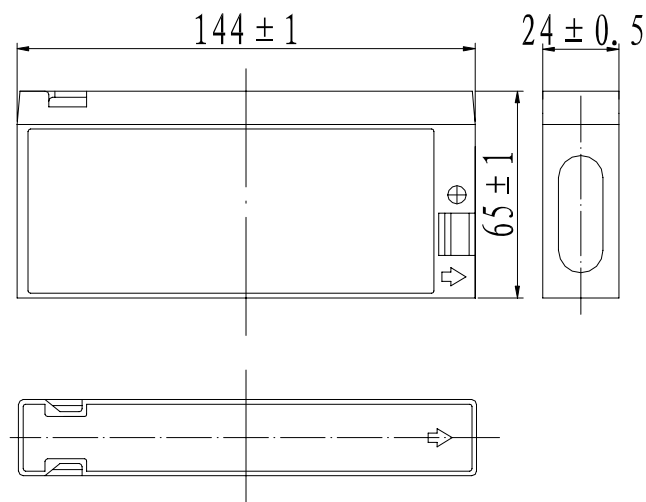


**Specifications**

Nominal Voltage		12 V
Capacity (25 °C)	20HR(10.5V)	1.6Ah
	10HR(10.5V)	1.5Ah
	1HR(9.60V)	1.04Ah
Dimension	Length	144 ± 1mm (5.67inch)
	Width	24 ± 0.5mm (0.94inch)
	Height	65 ± 1mm (2.56inch)
	Total Height	65 ± 1mm (2.56inch)
Approx. Weight		0.55kg (1.21lbs) ± 5%
Terminal type		Tab
Internal resistance (Fully charged, 25 °C)		Approx. 150m 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)	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	0.6A	
Terminal material	Copper	
Maximum discharge current	10A(5 sec.)	
Designed floating life(20 °C)	10years	



**Dimensions**



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

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

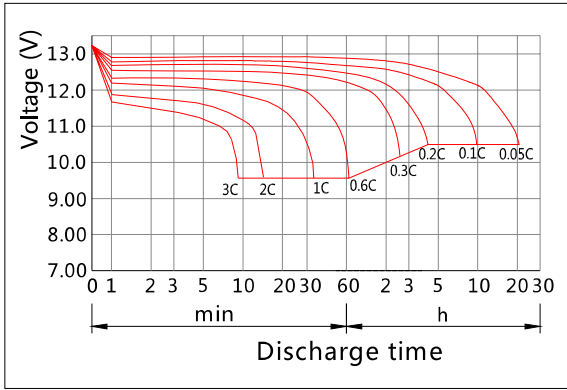
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	3.84	3.04	1.70	1.04	0.57	0.41	0.33	0.28	0.18	0.15	0.08
9.90V	3.72	2.97	1.66	1.02	0.57	0.41	0.32	0.28	0.18	0.15	0.08
10.2V	3.57	2.86	1.61	1.00	0.56	0.40	0.32	0.27	0.18	0.15	0.08
10.5V	3.42	2.76	1.57	0.98	0.55	0.40	0.32	0.27	0.18	0.15	0.08
10.8V	3.23	2.61	1.51	0.95	0.54	0.39	0.31	0.26	0.17	0.15	0.08

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

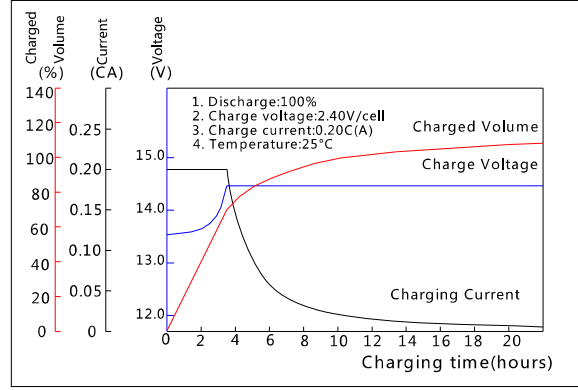
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	43.3	34.7	19.4	12.0	6.65	4.85	3.89	3.31	2.15	1.81	0.97
9.90V	42.0	33.8	19.0	11.9	6.61	4.82	3.86	3.29	2.14	1.81	0.97
10.2V	40.3	32.6	18.5	11.6	6.55	4.79	3.84	3.27	2.13	1.80	0.97
10.5V	38.6	31.5	18.0	11.3	6.45	4.75	3.81	3.25	2.11	1.79	0.96
10.8V	36.4	29.8	17.4	11.0	6.29	4.61	3.70	3.15	2.05	1.75	0.94

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

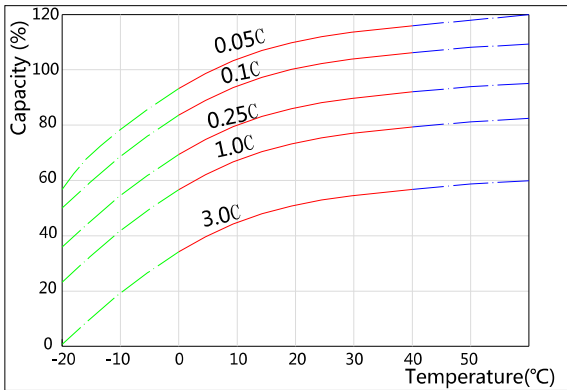
**Discharge Characteristics(25°C)**



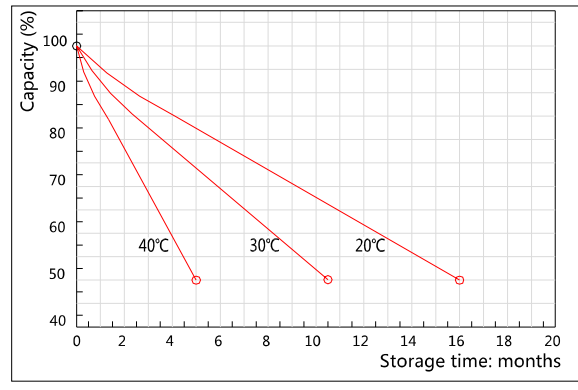
**Charging Characteristics(25°C)**



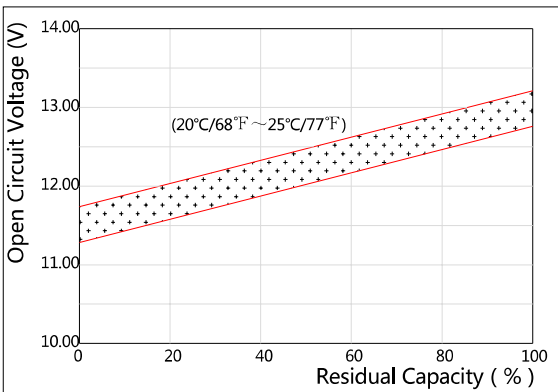
**Effect of Temperature on Capacity**



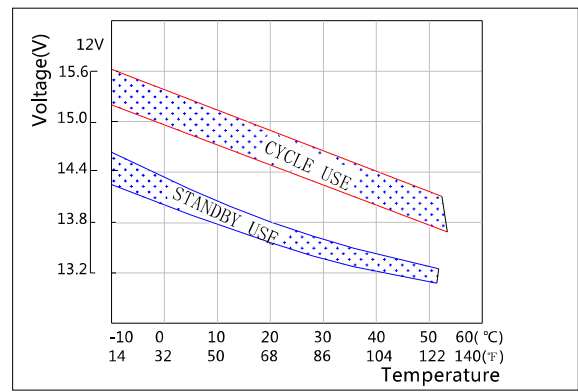
**Self-discharge Characteristics**



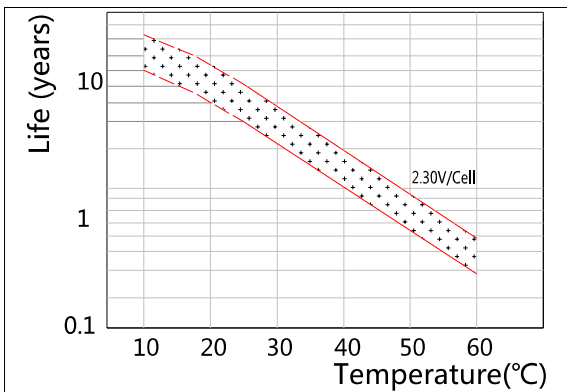
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



**The Relationship for Charging Voltage and Temperature**



**Floating Life on Temperature**



**Cycle Life on D.O.D(25°C)**

