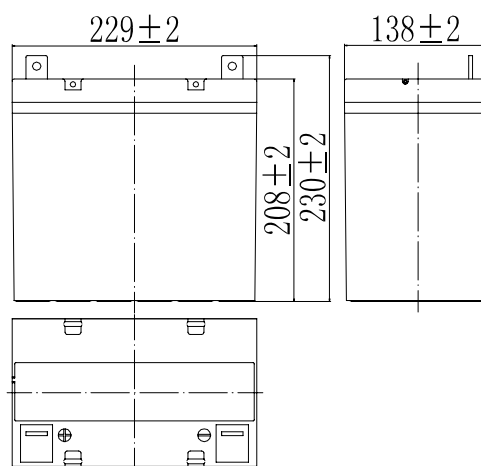


**Specifications**

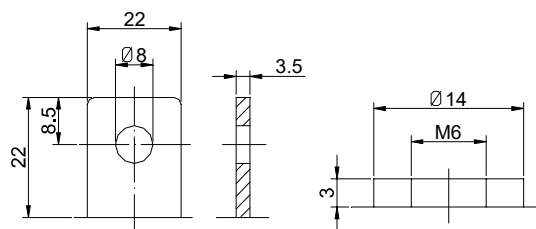
Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	50Ah
	5HR(10.5V)	43.7Ah
	1HR(9.60V)	31Ah
Dimension	Length	229 ± 2mm (9.02inch)
	Width	138 ± 2mm (5.43inch)
	Height	208 ± 2mm (8.19inch)
	Total Height	T5: 230 ± 2mm (9.06inch) T9: 211 ± 2mm (8.31inch)
Approx. Weight		16.0kg (35.2lbs) ± 4%
Terminal type		T5/T9
Internal resistance (Fully charged, 25°C)		Approx. 7.5m Ω
Capacity affected by temperature (10HR)	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)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 14.90V Temperature compensation: -30mV/°C
Maximum charging current		15A
Terminal material		Copper
Maximum discharge current		500A(5 sec.)
Designed floating life(20°C)		12 years



**Dimensions**



**Terminal**



Terminal T5

Terminal T9

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

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

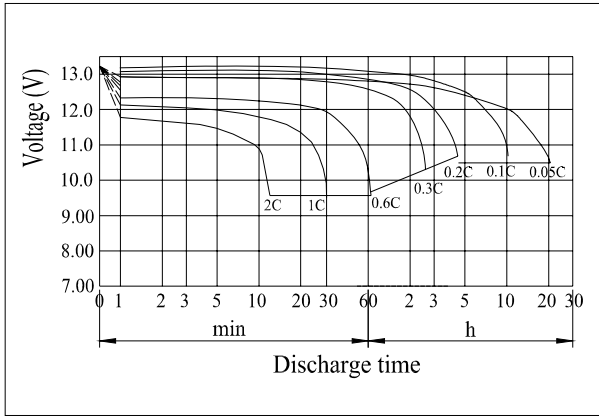
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	105	82.5	50.0	31.0	18.3	12.8	10.5	8.93	6.12	5.09	2.67
9.90V	102	80.5	49.0	30.5	18.2	12.7	10.4	8.87	6.08	5.08	2.67
10.2V	97.7	77.6	47.5	29.8	18.0	12.6	10.3	8.81	6.04	5.07	2.66
10.5V	93.5	74.9	46.4	29.2	17.7	12.5	10.3	8.75	6.00	5.04	2.64
10.8V	88.2	71.0	44.7	28.3	17.3	12.1	9.94	8.49	5.82	5.00	2.63

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

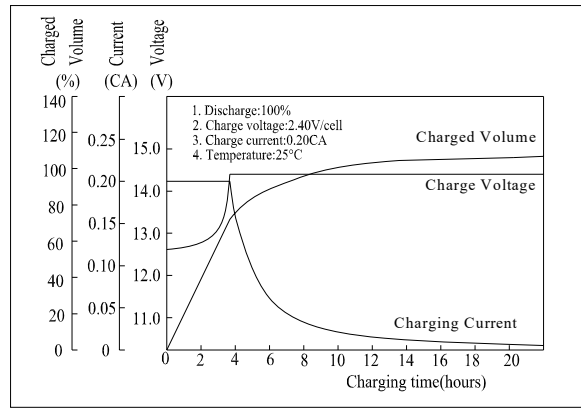
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1134	906	561	353	212	150	123	105	72.7	60.8	32.1
9.90V	1100	884	550	348	210	149	122	105	72.3	60.7	32.0
10.2V	1055	851	533	339	208	148	121	104	71.8	60.5	31.9
10.5V	1009	823	520	333	205	147	121	103	71.3	60.1	31.7
10.8V	953	779	501	322	200	143	117	100	69.1	59.7	31.5

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

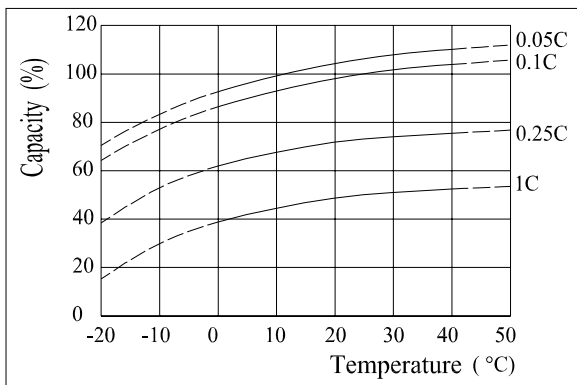
**Discharge Characteristics(25°C)**



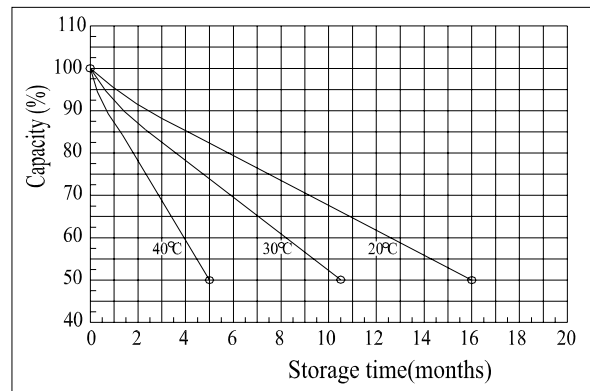
**Charging Characteristics(25°C)**



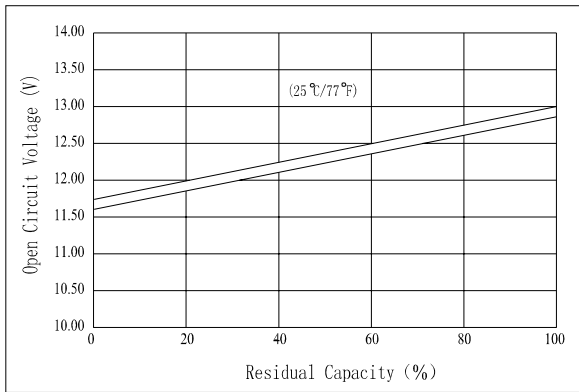
**Effect of Temperature on Capacity**



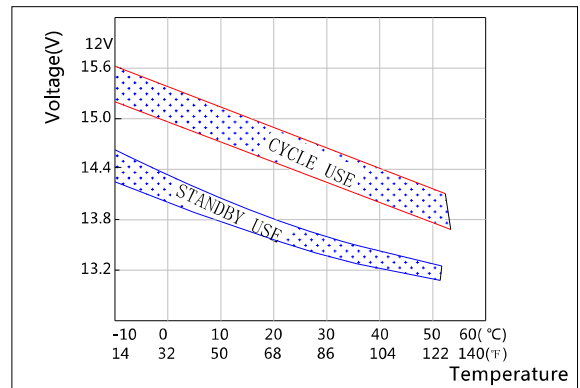
**Self-discharge Characteristics**



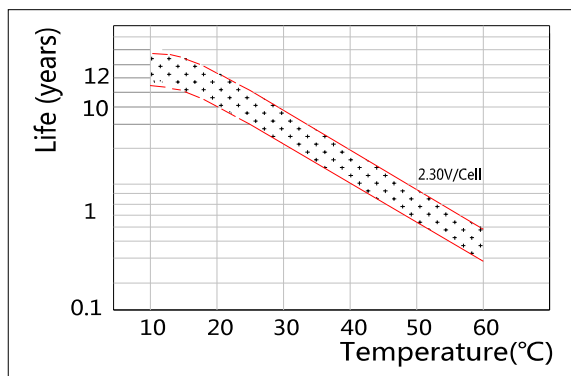
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



**The Relationship for Charging Voltage and Temperature**



**Floating Life on Temperature**



**Cycle Life on D.O.D(25°C)**

