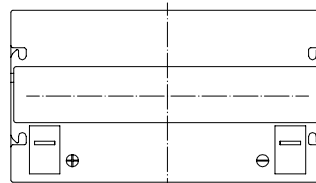
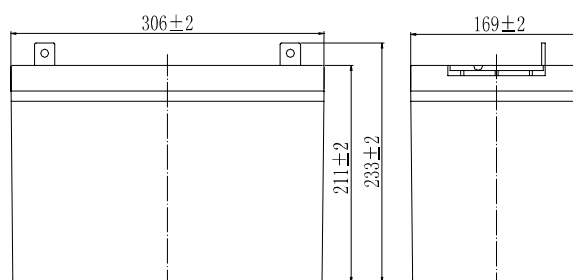


**Specifications**

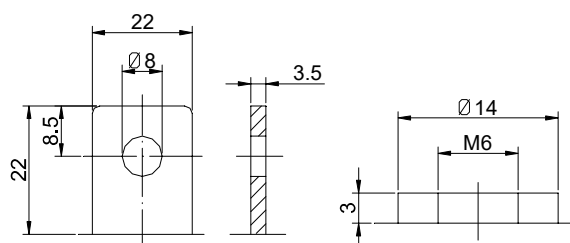
Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	90 Ah
	5HR(10.5V)	79Ah
	1HR(9.60V)	55.8Ah
Dimension	Length	306mm ± 2 (12.05inch)
	Width	169mm ± 2 (6.65inch)
	Height	211mm ± 2 (8.31inch)
	Total Height	T5: 233 ± 2mm (9.17inch) T9: 214 ± 2mm (8.43inch)
Approx. Weight		27kg (59.5lbs) ± 4%
Terminal type		T5/T9
Internal resistance (Fully charged, 25°C)		Approx. 5.5m 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	27A	
Terminal material	Copper	
Maximum discharge current	800A(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)**

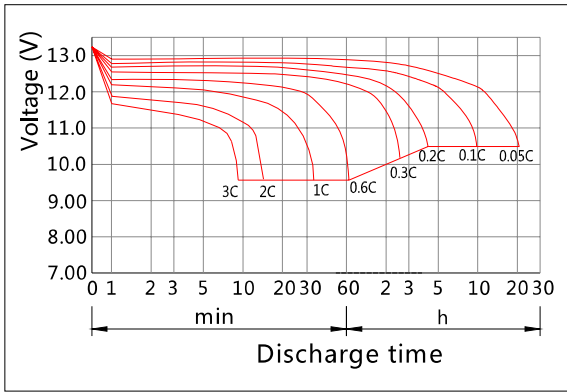
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	189	149	90.0	55.8	32.9	23.0	18.8	16.1	11.0	9.16	4.81
9.90V	183	145	88.2	55.0	32.7	22.8	18.7	16.0	11.0	9.14	4.80
10.2V	176	140	85.5	53.6	32.4	22.7	18.6	15.9	10.9	9.12	4.79
10.5V	168	135	83.4	52.5	31.9	22.5	18.5	15.8	10.8	9.06	4.76
10.8V	159	128	80.4	50.9	31.1	21.8	17.9	15.3	10.5	9.00	4.73

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

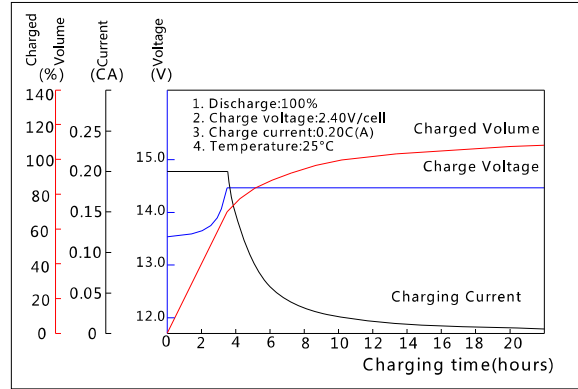
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	2041	1631	1010	636	381	270	221	190	131	109	57.7
9.90V	1980	1591	990	627	379	268	220	189	130	109	57.6
10.2V	1898	1533	959	611	375	266	218	187	129	109	57.4
10.5V	1817	1481	936	599	370	265	217	186	128	108	57.1
10.8V	1715	1402	902	580	360	257	210	181	124	107	56.7

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

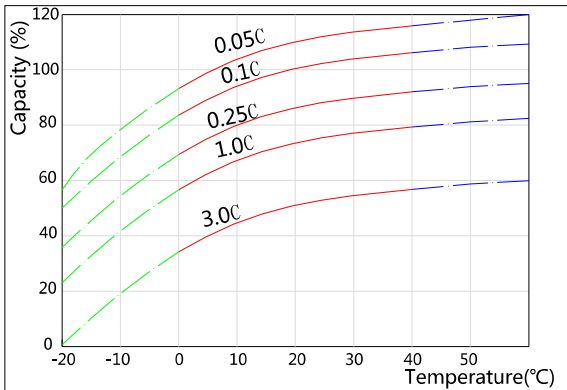
**Discharge Characteristics(25°C)**



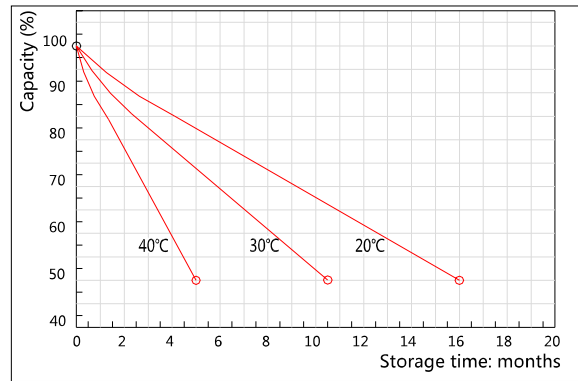
**Charging Characteristics(25°C)**



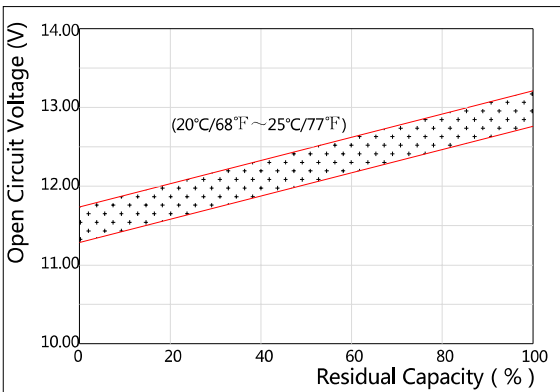
**Effect of Temperature on Capacity**



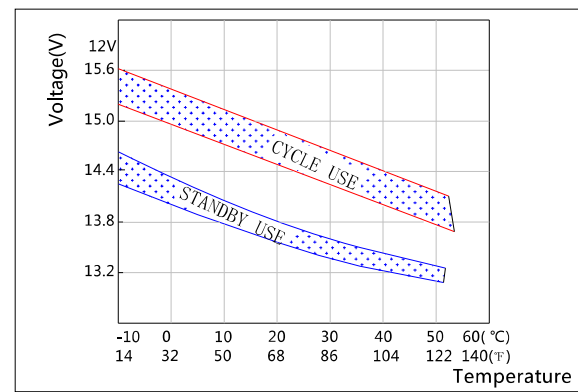
**Self-discharge Characteristics**



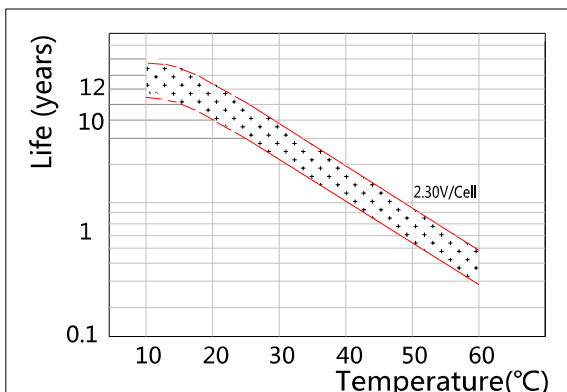
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



**The Relationship for Charging Voltage and Temperature**



**Floating Life on Temperature**



**Cycle Life on D.O.D(25°C)**

