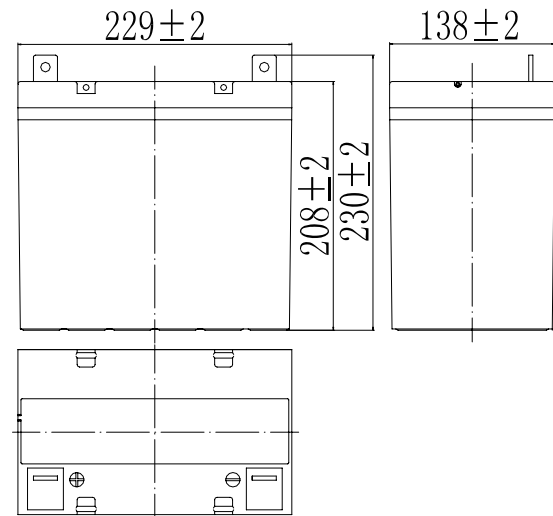


**Specifications**

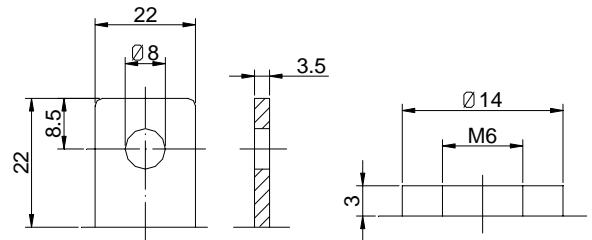
Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	55 Ah
	5HR(10.5V)	45Ah
	1HR(9.60V)	33Ah
Dimension	Length	229 ± 2mm (9.02inch)
	Width	138 ± 2mm (5.43inch)
	Height	208 ± 2mm (8.19inch)
	Total Height	T5: 230 ± 2mm (9.06inch) T9: 211 ± 2mm (8.31inch)
Approx. Weight		17.5kg (38.6lbs) ± 4%
Terminal type		T5/T9
Internal resistance (Fully charged, 25°C)		Approx. 7m 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)		14.40 to 14.70V Temperature compensation: -30mV/°C
Maximum charging current		13.75A
Terminal material		Copper
Maximum discharge current		550A(5 sec.)
Designed floating life(20°C)		10 years

- ◆ Gelled electrolyte technology;
- ◆ AGM separator;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

**Dimensions**



**Terminal**



Terminal T5

Terminal T9

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

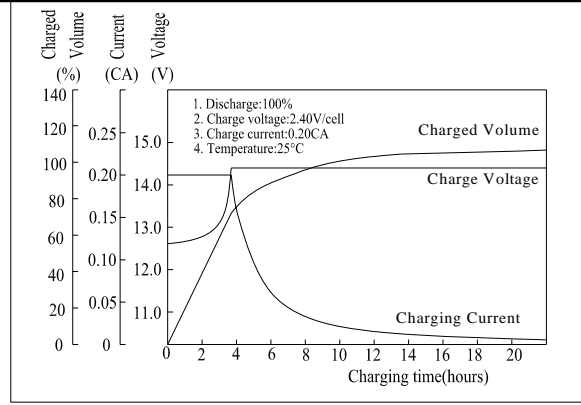
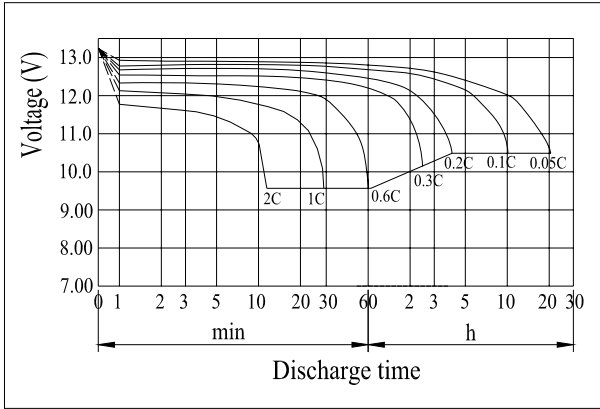
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	90.8	83.6	52.8	33.0	19.8	13.5	10.7	9.31	6.62	5.60	2.88
9.90V	88.0	81.6	51.7	32.5	19.7	13.4	10.6	9.26	6.58	5.59	2.88
10.2V	84.4	78.6	50.2	31.7	19.5	13.3	10.5	9.19	6.54	5.57	2.87
10.5V	80.8	75.9	48.9	31.1	19.2	13.2	10.5	9.13	6.49	5.54	2.85
10.8V	76.2	71.9	47.2	30.1	18.7	12.8	10.1	8.86	6.30	5.50	2.83

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

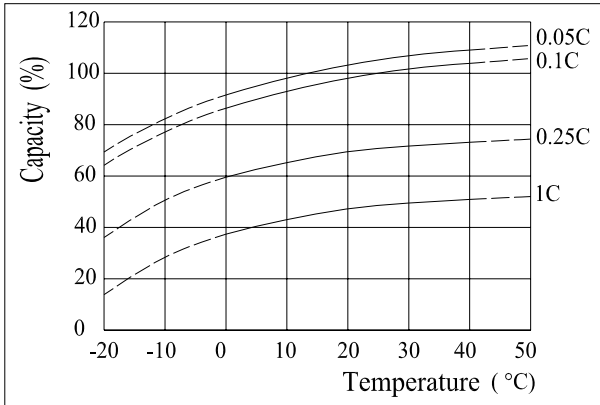
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	980	918	592	376	229	158	125	110	78.6	66.9	34.6
9.90V	951	896	581	371	228	157	125	109	78.2	66.7	34.5
10.2V	911	863	563	361	226	156	124	109	77.6	66.5	34.4
10.5V	872	833	549	354	223	155	123	108	77.1	66.1	34.2
10.8V	823	789	529	343	217	151	119	105	74.8	65.7	34.0

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

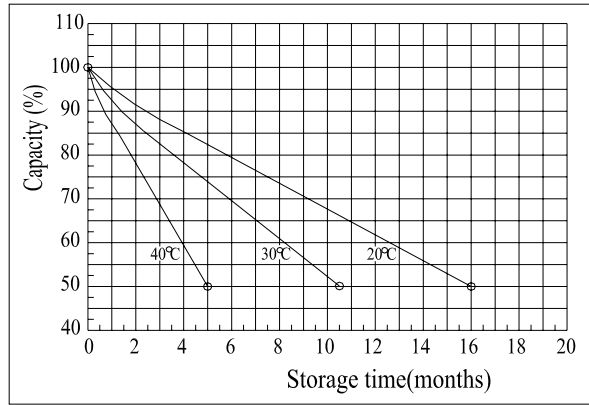
Discharge Characteristics(25°C)



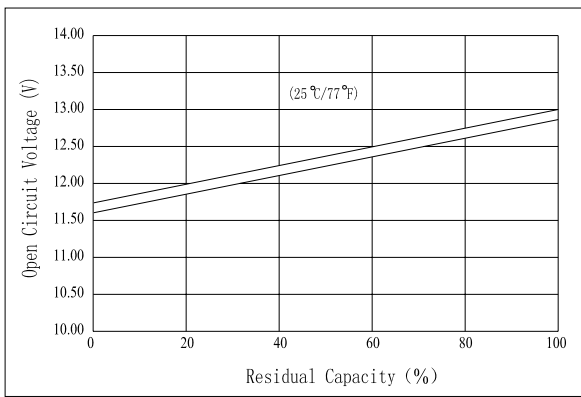
Effect of Temperature on Capacity



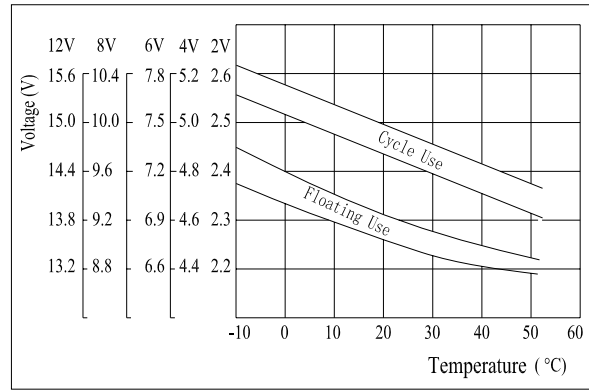
Self-discharge Characteristics



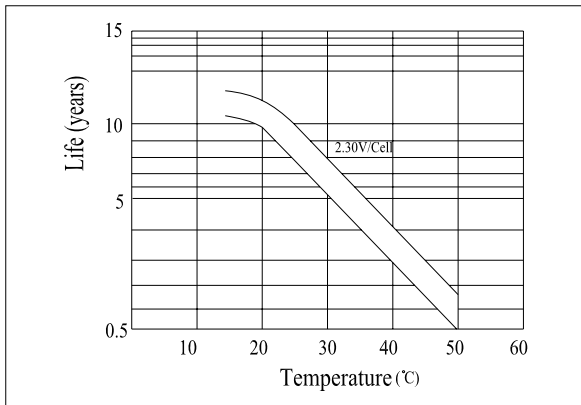
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



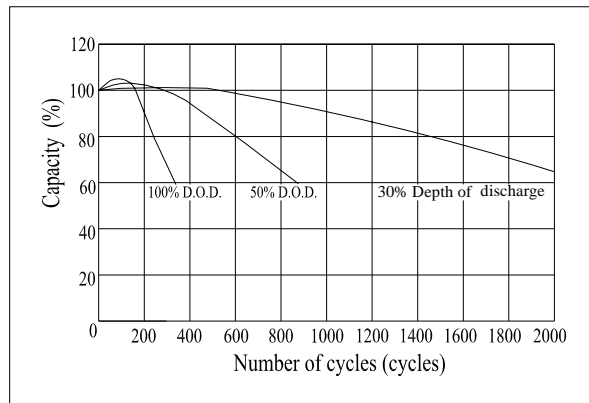
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Charging Characteristics(25°C)