

**Specifications**

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	28Ah
	5HR(10.2V)	21.8Ah
	1HR(9.6V)	16.3Ah
Dimension	Length	166 ± 2mm (6.54inch)
	Width	175 ± 2mm (6.89inch)
	Height	125 ± 2mm (4.92inch)
	Total Height	125 ± 2mm (4.92inch)
Approx. Weight		8.0kg (17.6lbs) ± 4%
Terminal type		T8
Internal resistance (Fully charged, 25°C)		Approx. 15m Ω
Capacity affected by temperature (10HR)	40°C	103%
	25°C	100%
	0°C	88%
	-15°C	70%
Self-discharge (25°C)	3 month	Remaining Capacity: 94%
	6 month	Remaining Capacity: 88%
	12 month	Remaining Capacity: 75%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 55°C (5°F ~ 131°F)
	Charge	-10°C ~ 55°C (14°F ~ 131°F)
	Storage	-20°C ~ 55°C (-4°F ~ 131°F)
Float charging voltage(25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.10 to 14.40V Temperature compensation: -30mV/°C
Maximum charging current		5.6A
Terminal material		Copper
Maximum discharge current		280 A(5 sec.)
Designed floating life(20°C)		10 years

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

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

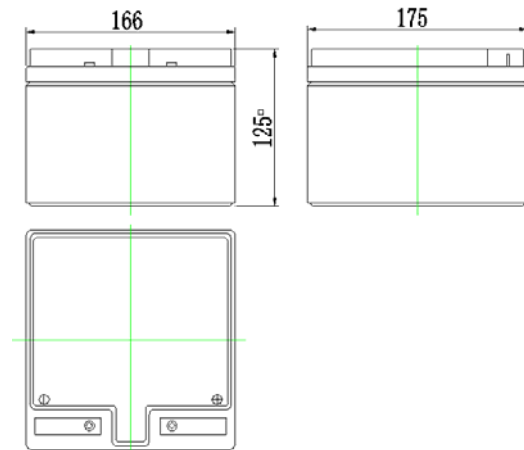
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	37.8	26.1	16.3	9.52	6.72	5.29	4.42	3.78	2.94	2.63	1.44	---	---
9.90V	37.0	25.6	16.0	9.46	6.66	5.26	4.40	3.75	2.91	2.61	1.44	----	---
10.2V	35.6	24.7	15.8	9.38	6.64	5.22	4.38	3.72	2.91	2.61	1.41	0.63	---
10.5V	34.4	24.3	15.3	9.24	6.58	5.18	4.34	3.70	2.87	2.60	1.40	0.62	0.257
10.8V	32.6	23.3	14.8	9.02	6.38	5.01	4.20	3.58	2.80	2.58	1.40	0.62	0.257

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

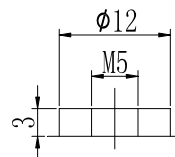
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	48h	120h
9.60V	421	298	188	111	79.2	62.4	52.6	44.8	35.0	31.4	17.3	---	---
9.90V	412	291	186	110	79.0	62.2	52.4	44.5	35.0	31.4	17.3	----	---
10.2V	397	284	181	109	78.4	61.6	51.8	44.2	34.7	31.3	17.2	7.49	---
10.5V	383	275	177	107	77.8	61.3	51.5	44.0	34.4	31.2	16.9	7.46	3.12
10.8V	363	266	172	105	75.3	59.4	50.1	42.6	33.3	30.8	16.9	7.46	3.08

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

**Dimensions**

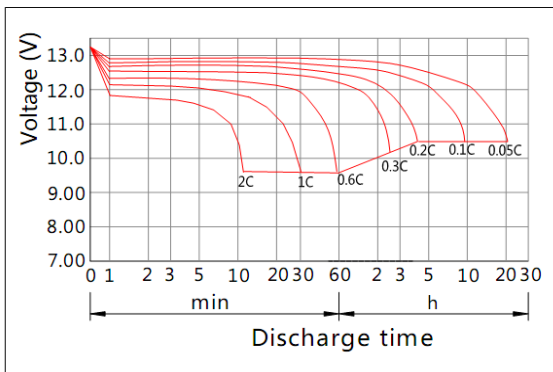


**Terminal**

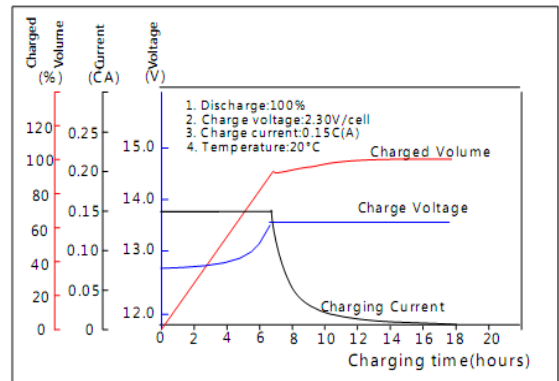


Terminal T8

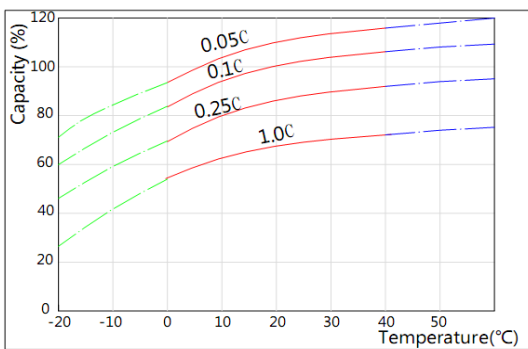
**Discharge Characteristics(25°C)**



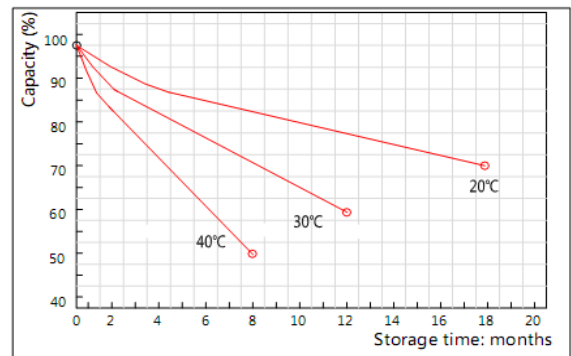
**Charging Characteristics(25°C)**



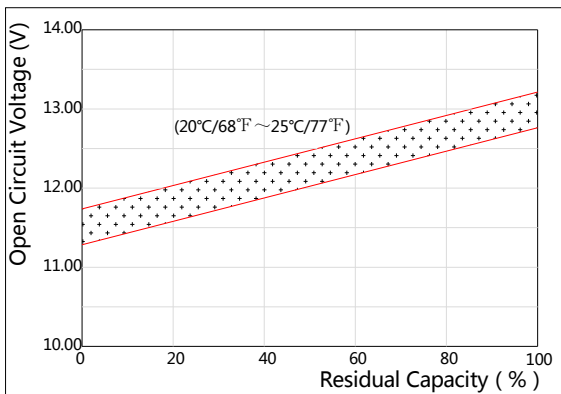
**Effect of Temperature on Capacity**



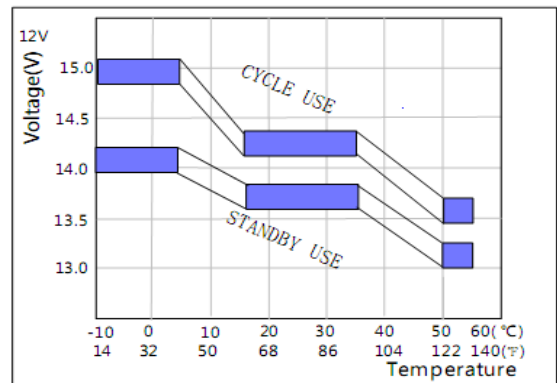
**Self-discharge Characteristics**



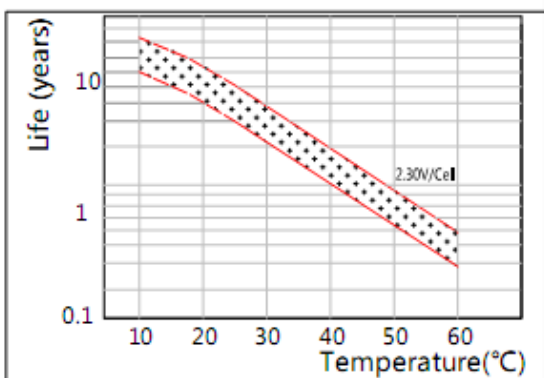
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



**The Relationship for Charging Voltage and Temperature**



**Floating Life on Temperature**



**Cycle Life on D.O.D(25°C)**

