

## Specifications

Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	7Ah
	10HR(10.5V)	6.6Ah
	1HR(9.60V)	4.58Ah
Dimension	Length	151±1.5mm (5.94inch)
	Width	65±1mm (2.56inch)
	Height	94±1mm (3.70inch)
	Total Height	100±1mm (3.94inch)
Approx. Weight		2.10kg (4.90lbs)±5%
Terminal type		T1/T2
Internal resistance (Fully charged, 25°C)		Approx. 28mΩ
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		2.1A
Terminal material		Copper
Maximum discharge current		105A(5 sec.)

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

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	10HR	20HR
1.60V	27.61	18.01	13.28	7.69	4.44	2.62	1.91	1.52	1.28	0.7	0.36
1.65V	26.62	17.47	12.94	7.52	4.36	2.58	1.88	1.5	1.27	0.69	0.36
1.70V	25.32	16.77	12.48	7.3	4.25	2.53	1.85	1.47	1.25	0.68	0.35
1.75V	23.65	15.86	11.88	7	4.11	2.46	1.8	1.44	1.22	0.67	0.35
1.80V	21.55	14.7	11.11	6.63	3.92	2.38	1.74	1.4	1.19	0.65	0.34

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

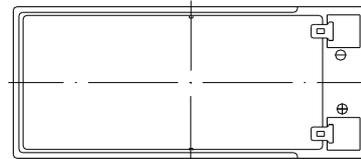
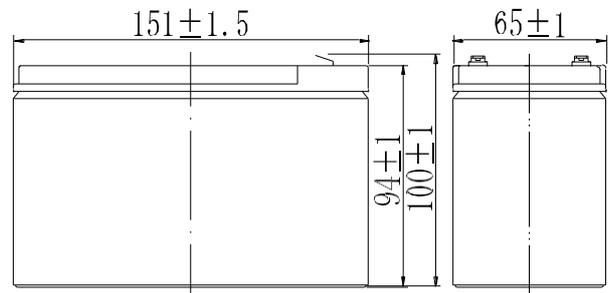
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	10HR	20HR
1.60V	47.53	31.07	23.57	14.18	8.43	5.04	3.69	2.96	2.51	1.39	0.73
1.65V	47.03	30.95	23.44	14.07	8.36	5.00	3.67	2.94	2.49	1.38	0.72
1.70V	45.23	30.03	22.81	13.73	8.18	4.93	3.61	2.9	2.46	1.36	0.72
1.75V	43.02	28.92	22.04	13.31	7.95	4.82	3.54	2.84	2.42	1.34	0.71
1.80V	39.88	27.25	20.91	12.73	7.62	4.67	3.43	2.77	2.35	1.31	0.69

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

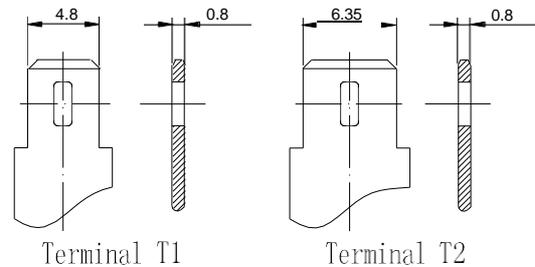
12V Voltage    7Ah Capacity    5years+ Design Life



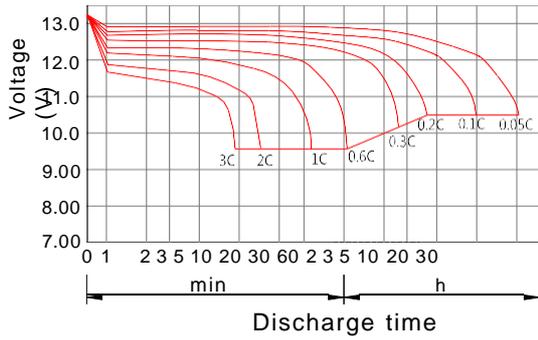
## Dimensions



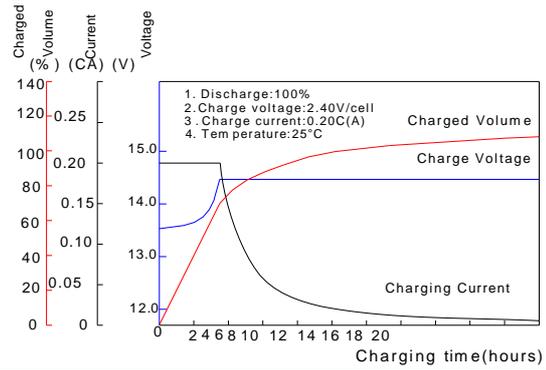
## Terminal



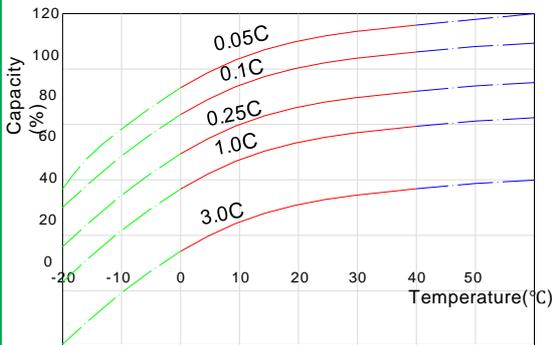
## Discharge Characteristics(25°C)



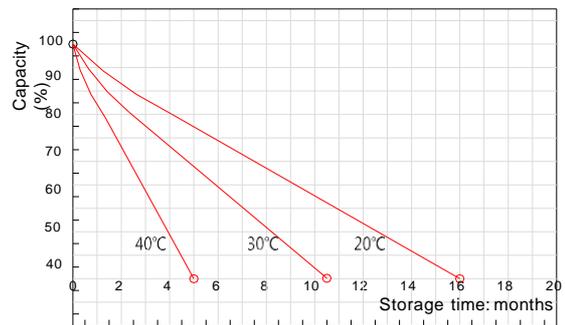
## Charging Characteristics(25°C)



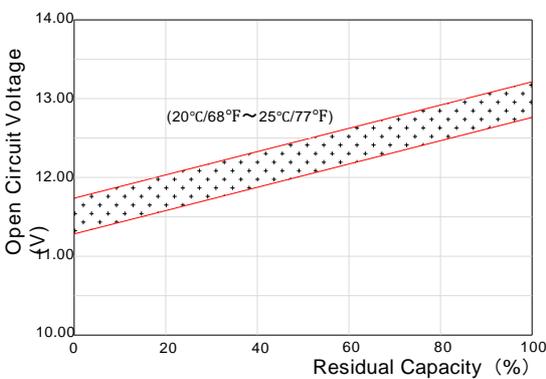
## Effect of Temperature on Capacity



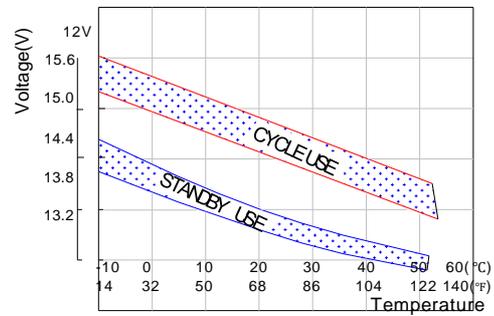
## Self-discharge Characteristics



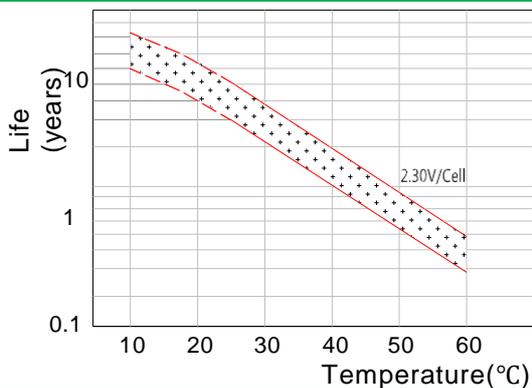
## The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



## The Relationship for Charging Voltage and Temperature



## Floating Life on Temperature



## Cycle Life on D.O.D.(25°C)

