

## Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	80 Ah
	5HR(10.5V)	70Ah
	1HR(9.60V)	49.6Ah
Dimension	Length	260 ± 2mm (10.24inch)
	Width	168 ± 2mm (6.58inch)
	Height	209 ± 2mm (8.22inch)
	Total Height	T5: 209 ± 2mm (8.22inch) T9: 210 ± 2mm (8.25inch)
Approx. Weight		24kg (52.91lbs) ± 4%
Terminal type		T5/T9
Internal resistance (Fully charged, 25°C)		Approx. 4mΩ
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		24A
Terminal material		Copper
Maximum discharge current		800A(5 sec.)
Designed floating life(20°C)		10~15 years

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

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

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	195.52	145.77	84.36	49.5	29.66	21.78	17.69	14.94	9.98	8.53	4.37
1.65V	189.75	141.99	82.51	48.59	29.22	21.49	17.47	14.76	9.88	8.45	4.34
1.70V	182.09	136.92	80.06	47.37	28.65	21.1	17.17	14.53	9.74	8.34	4.29
1.75V	172.14	130.35	76.86	45.78	27.88	20.59	16.79	14.23	9.56	8.2	4.23
1.80V	159.5	121.99	72.7	43.69	26.88	19.92	16.28	13.82	9.32	8.0	4.15

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

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	337.41	258.71	155.52	93.95	57.05	42.22	34.47	29.21	19.78	17.01	8.74
1.65V	336.02	257.21	154.33	93.18	56.63	41.91	34.22	29.02	19.64	16.89	8.69
1.70V	326.07	250.25	150.65	91.17	55.68	41.26	33.72	28.64	19.4	16.68	8.6
1.75V	313.93	241.79	146.07	88.55	54.45	40.44	33.08	28.13	19.07	16.42	8.49
1.80V	295.92	229.35	139.6	84.92	52.76	39.26	32.19	27.42	18.65	16.05	8.33

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

12V  
Voltage

80Ah  
Capacity

15years  
Design Life



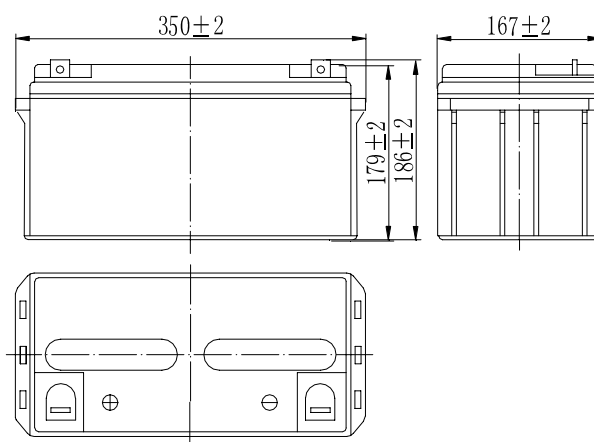
ISO9001



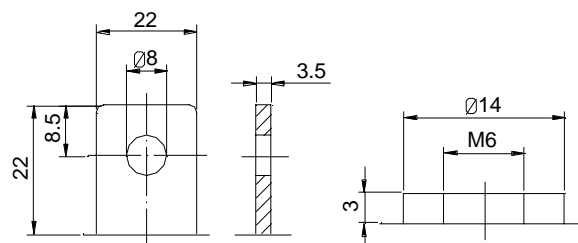
ISO14001



## Dimensions



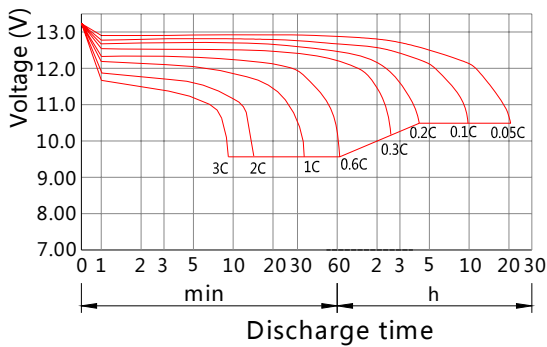
## Terminal



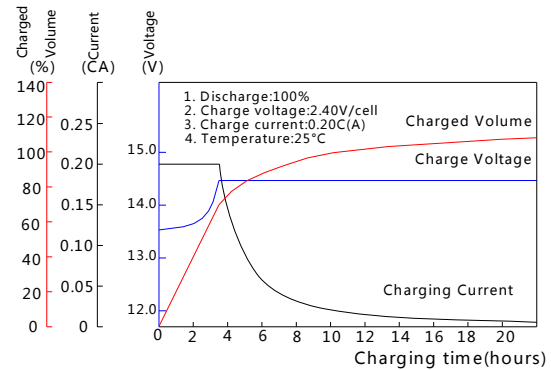
Terminal T5

Terminal T9

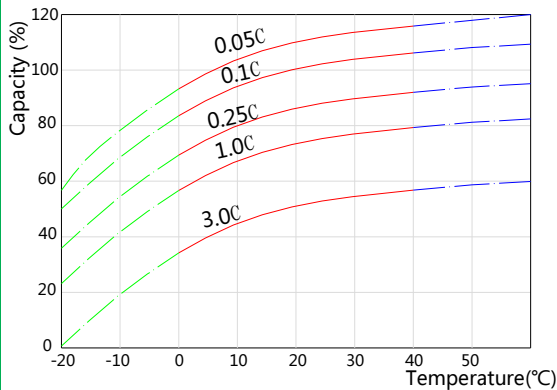
## Discharge Characteristics(25°C)



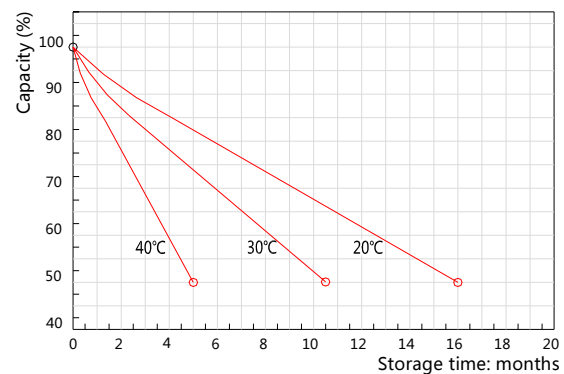
## Charging Characteristics(25°C)



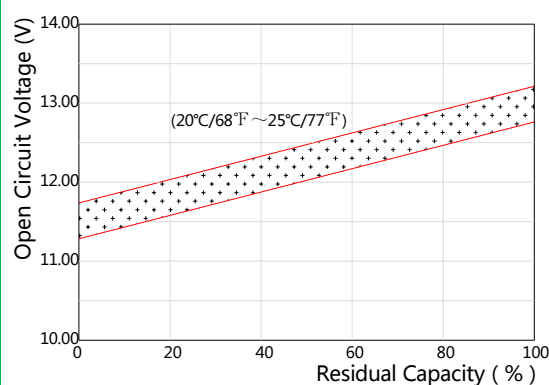
## Effect of Temperature on Capacity



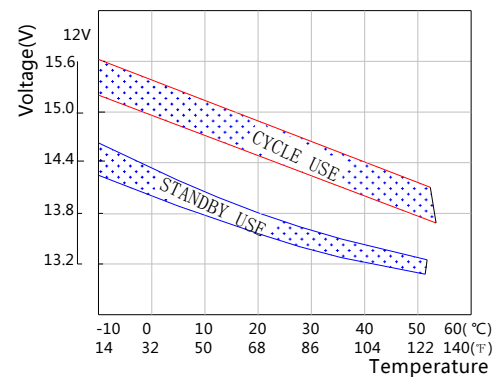
## Self-discharge Characteristics



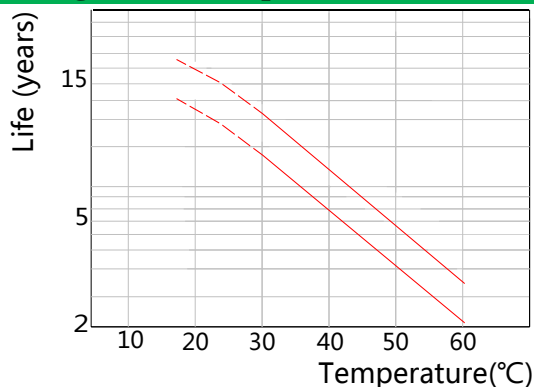
## The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



## The Relationship for Charging Voltage and Temperature



## Floating Life on Temperature



## Cycle Life on D.O.D.(25°C)

