

## Specifications

Nominal Voltage		12 V
Capacity (25°C)	10HR(10.8V)	100 Ah
	5HR(10.5V)	87Ah
	1HR(9.60V)	62Ah
Dimension	Length	330±2mm (12.99inch)
	Width	171±2mm (6.73inch)
	Height	214±2mm (8.43inch)
	Total Height	T5: 224±2mm (8.82inch) T9: 220±2mm (8.66inch)
Approx. Weight		28.3kg
Terminal type		T9
Internal resistance (Fully charged, 25°C)		Approx. 4.5mΩ
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 ~ 70°C (5°F ~ 158°F)
	Charge	-10°C ~ 70°C (14°F ~ 158°F)
	Storage	-20°C ~ 70°C (-4°F ~ 158°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	30A	
Terminal material	Copper	
Maximum discharge current	800A(5 sec.)	
Designed floating life(20°C)	15 years	

- ◆ Nano gel technology;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

## Features:

- Exceptional Deep Discharge Recovery and prolong cycle life
- 30% decreased float current lead to excellent high temperature resistance
- Thick flat plate with high Tin low Calcium alloy
- Low self-discharge rate and long shelf life (9 months at 20°C)



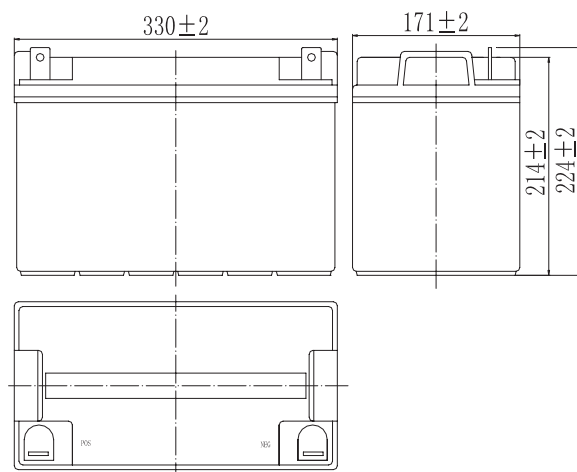
ISO9001



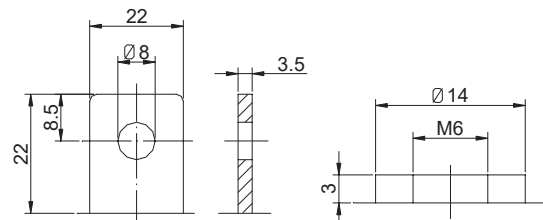
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## Dimensions



## Terminal



Terminal T5

Terminal T9

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

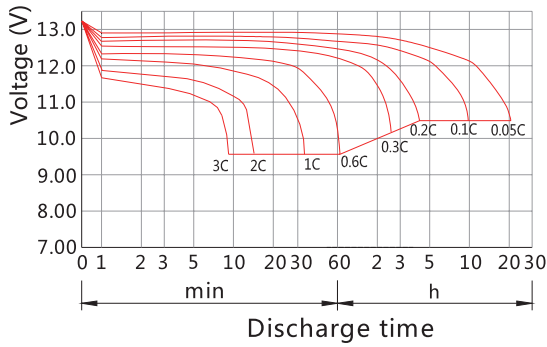
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	244.38	182.19	105.47	61.89	37.11	27.26	22.09	18.71	12.44	10.7	5.47
1.65V	237.11	177.41	103.08	60.7	36.52	26.87	21.79	18.41	12.34	10.6	5.42
1.70V	227.56	171.14	100.1	59.2	35.82	26.37	21.49	18.21	12.14	10.4	5.36
1.75V	215.22	162.99	96.02	57.21	34.83	25.77	21	17.81	11.94	10.2	5.29
1.80V	199.4	152.44	90.85	54.63	33.63	24.88	20.3	17.31	11.64	10.0	5.18

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

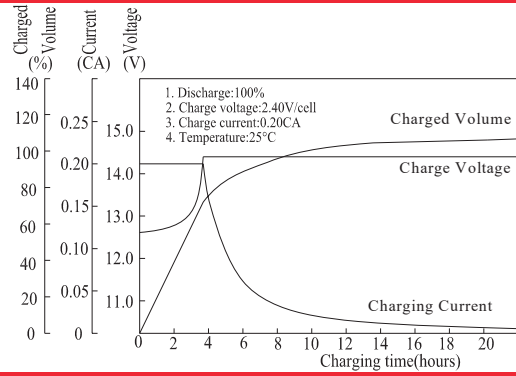
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	421.89	323.38	194.03	117.41	71.34	52.74	43.08	36.52	24.68	21.3	10.9
1.65V	419.9	321.39	193.03	116.42	70.75	52.44	42.79	36.32	24.58	21.1	10.9
1.70V	407.96	312.44	188.06	114.43	69.65	51.54	42.19	35.82	24.28	20.9	10.8
1.75V	392.04	302.49	183.08	110.45	68.06	50.55	41.39	35.12	23.88	20.5	10.6
1.80V	370.15	286.57	174.13	106.47	65.97	49.05	40.2	34.33	23.28	20.1	10.4

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

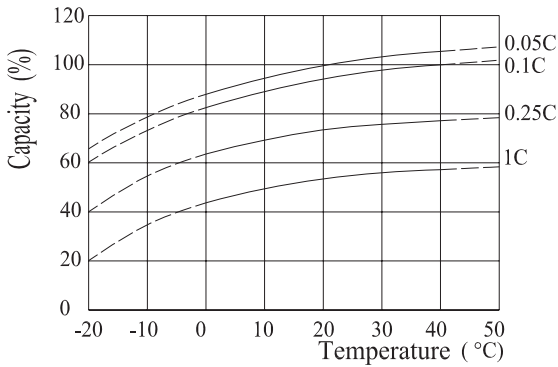
## Discharge Characteristics(25°C)



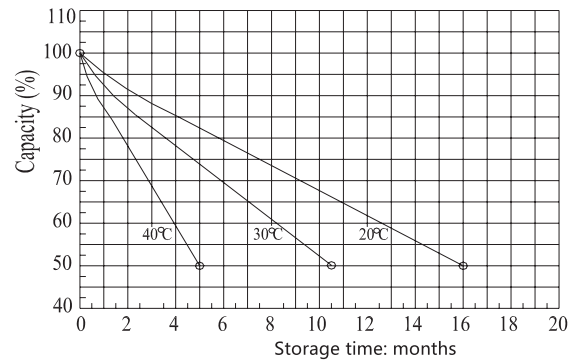
## Charging Characteristics(25°C)



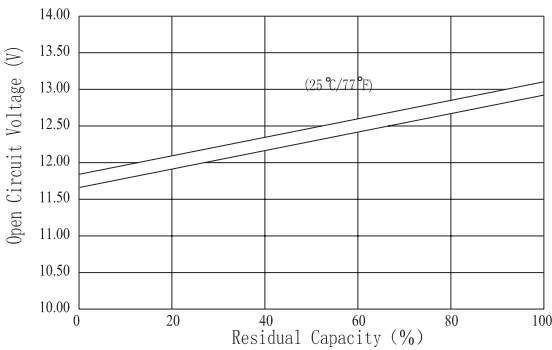
## Effect of Temperature on Capacity



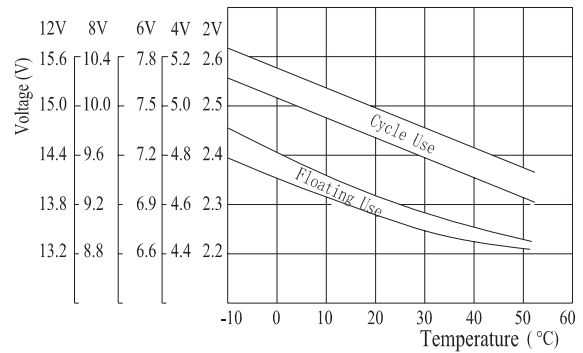
## Self-discharge Characteristics



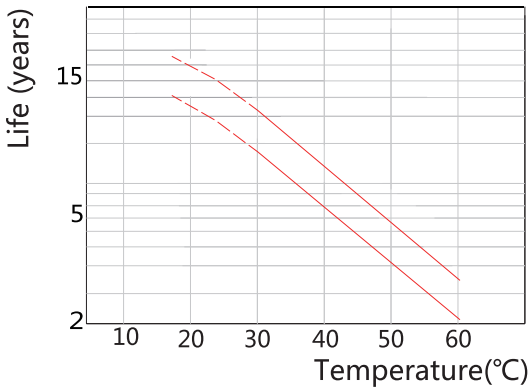
## The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



## The Relationship for Charging Voltage and Temperature



## Floating Life on Temperature



## Cycle Life on D.O.D(25°C)

