

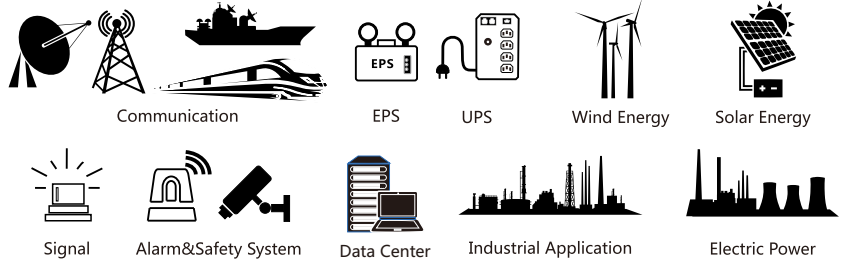
# TN2-3000 [2V 3000Ah]



## Product Features

General Purpose (AGM)				10~12 years of design life@25°C
100% Model Coverage Both Cycle & Float Application	↑98% Capacity Retention High Purity Electrolyte	↑20% Charge Acceptance Special Negative Additive	↓50% Grid Corrosion Rare-earth patent alloy	

## Product Applications



## Physical Specifications

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
TN2-3000	Length	Width	Height	Total Height	180/396.8	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	710/28.0	350/13.8	337/13.3	347/13.7			

## Product Specifications

Nominal Voltage	Rated Capacity@25°C/77°F	Internal Resistance	Max. Discharge Current	Operating Temp. Range
2V	3200Ah 20hr Rate (1.80V/cell) 3000Ah 10hr Rate (1.80V/cell) 2630Ah 5hr Rate (1.75V/cell) 2388Ah 3hr Rate (1.70V/cell)	0.2mΩ@25°C/77°F	18600A (5s)	Discharge:-15~50°C (5~122°F) Charge:0~40°C (32~104°F) Storage:-15~40°C (5~104°F) Optimum:25±2°C (77±4°F)

## Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	2454	2016	1689	1008	736	593	500	436	353	292	157
1.80V/cell	2610	2104	1773	1052	766	611	514	449	361	300	160
1.75V/cell	2736	2200	1841	1078	784	623	526	459	366	305	162
1.70V/cell	2868	2280	1881	1096	796	635	534	466	371	308	165
1.67V/cell	2988	2352	1935	1120	808	647	543	472	376	313	168
1.60V/cell	3132	2428	1989	1137	823	656	552	478	381	316	171

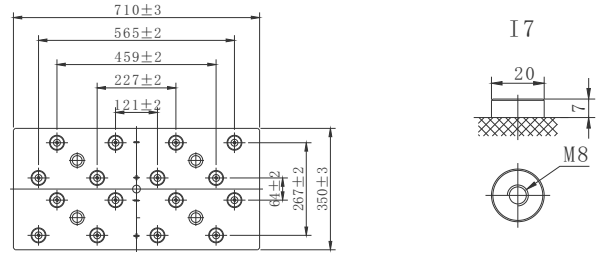
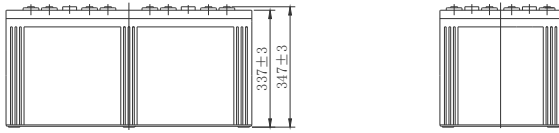
## Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	4829	3998	3363	2025	1489	1205	1019	891	724	600	323
1.80V/cell	5121	4162	3520	2107	1544	1238	1045	914	738	614	328
1.75V/cell	5352	4341	3645	2153	1575	1258	1066	933	748	623	332
1.70V/cell	5593	4489	3719	2183	1595	1279	1080	944	754	627	337
1.67V/cell	5810	4619	3814	2224	1613	1299	1094	953	762	635	342
1.60V/cell	6064	4749	3906	2252	1638	1312	1108	962	769	638	348

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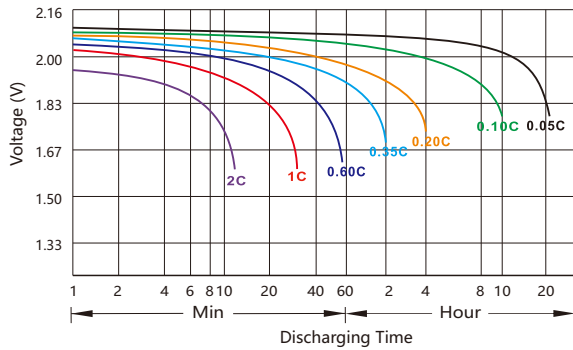


## Battery Dimensions(mm)

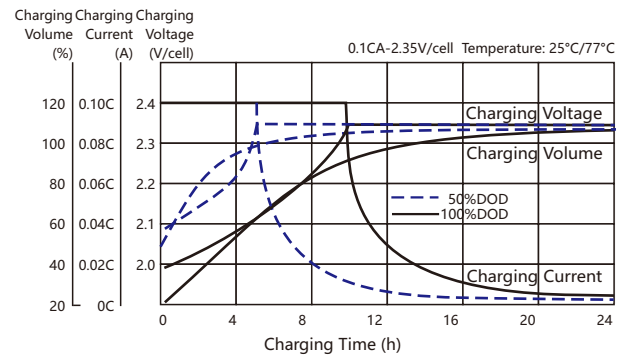


## Electrical Characteristics

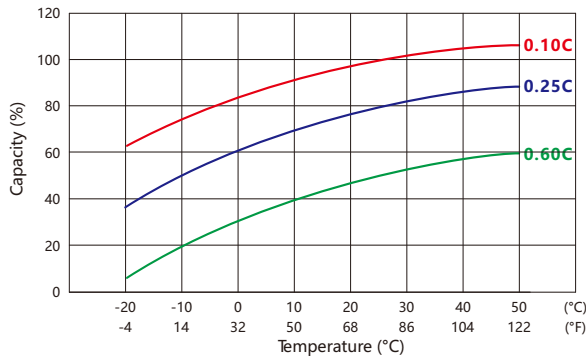
### Discharging Characteristics(25°C)



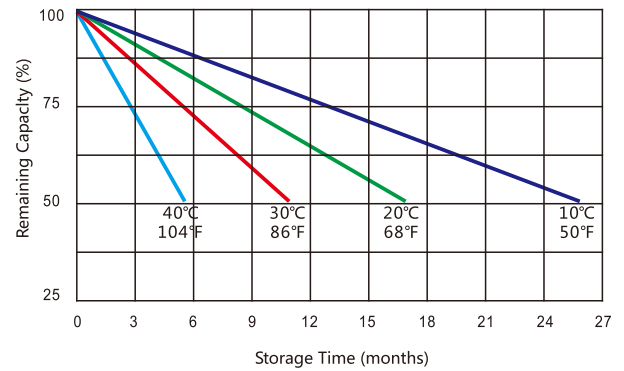
### Charging Characteristics(25°C)



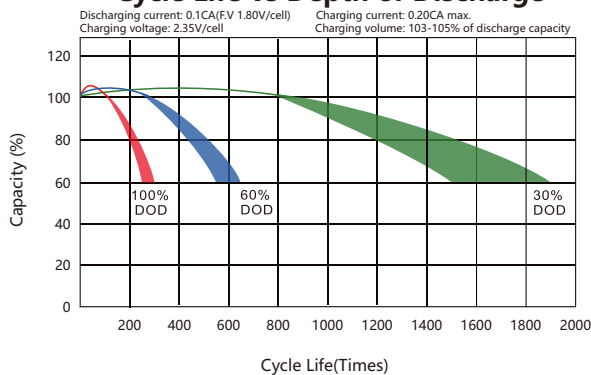
### Capacity vs Temperature



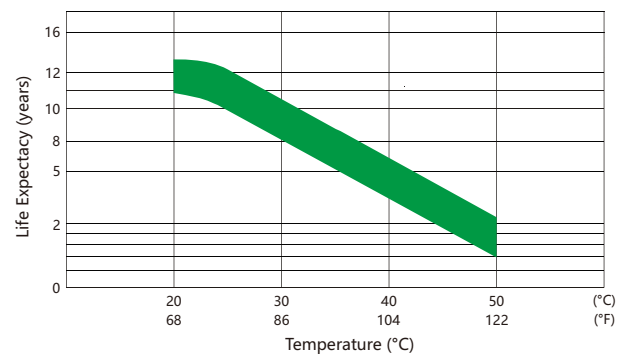
### Self-discharge vs Time



### Cycle Life vs Depth of Discharge



### Floating Life vs Temperature



## Usage and Maintenance

Charge Current	Equalization Charge	Float Charge
Limited current: $\leq 0.2 C_{10}A$	Constant Voltage: 2.35~2.4V@25°C(77°F) Temp.Coefficient:-4mV/°C	Constant Voltage: 2.23~2.27V@25°C(77°F) Temp.Coefficient:-3mV/°C