

# TN6-3.0 [6V 3.0Ah]



## Product Features

General Purpose (AGM)		3~5 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
TN6-3.0	Length	Width	Height	Total Height	0.64/1.41	T1/T2	ABS UL94-HB (Optional: FR ABS UL94-V0)
	70/2.76	47/1.85	100/3.94	106/4.17			

## Product Specifications

Nominal Voltage	Rated Capacity@25°C/77°F	Internal Resistance	Max. Discharge Current	Operating Temp. Range
6V	3.0Ah 20hr Rate (1.80V/cell) 2.84Ah 10hr Rate (1.80V/cell) 2.50Ah 5hr Rate (1.75V/cell) 2.18Ah 3hr Rate (1.70V/cell)	28mΩ@25°C/77°F	45A (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	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	9.71	6.29	5.24	4.31	3.01	2.09	1.63	0.919	0.671	0.552	0.475	0.414	0.335	0.278	0.148
1.80V/cell	10.5	6.65	5.45	4.41	3.09	2.14	1.67	0.938	0.689	0.566	0.486	0.426	0.344	0.284	0.150
1.75V/cell	10.8	6.84	5.59	4.52	3.16	2.20	1.71	0.960	0.710	0.581	0.499	0.435	0.353	0.290	0.154
1.70V/cell	11.3	6.99	5.70	4.63	3.23	2.26	1.76	0.989	0.727	0.596	0.511	0.449	0.363	0.297	0.157
1.67V/cell	11.5	7.22	5.83	4.75	3.30	2.31	1.80	1.01	0.745	0.608	0.523	0.457	0.368	0.301	0.159
1.60V/cell	11.9	7.52	6.04	4.91	3.40	2.37	1.84	1.05	0.768	0.626	0.536	0.469	0.377	0.309	0.162

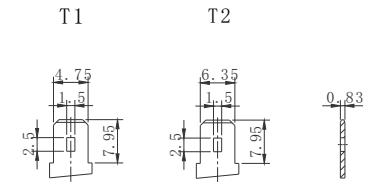
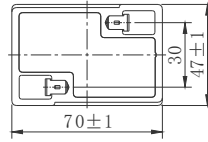
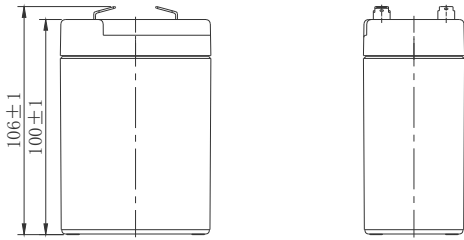
## Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	18.1	11.9	10.1	8.36	5.92	4.14	3.24	1.85	1.36	1.12	0.968	0.846	0.687	0.570	0.305
1.80V/cell	19.5	12.6	10.4	8.53	6.06	4.23	3.31	1.88	1.39	1.15	0.989	0.868	0.704	0.582	0.308
1.75V/cell	20.1	12.9	10.6	8.71	6.19	4.33	3.38	1.92	1.43	1.17	1.01	0.885	0.720	0.594	0.315
1.70V/cell	20.8	13.1	10.8	8.89	6.30	4.46	3.48	1.97	1.46	1.20	1.03	0.908	0.737	0.604	0.319
1.67V/cell	21.3	13.5	11.0	9.10	6.42	4.54	3.54	2.01	1.49	1.22	1.05	0.923	0.747	0.612	0.324
1.60V/cell	21.9	14.0	11.4	9.35	6.58	4.63	3.62	2.09	1.53	1.25	1.07	0.944	0.762	0.624	0.329

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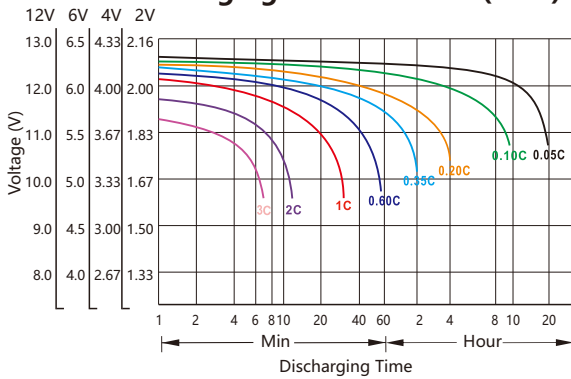


## Battery Dimensions(mm)

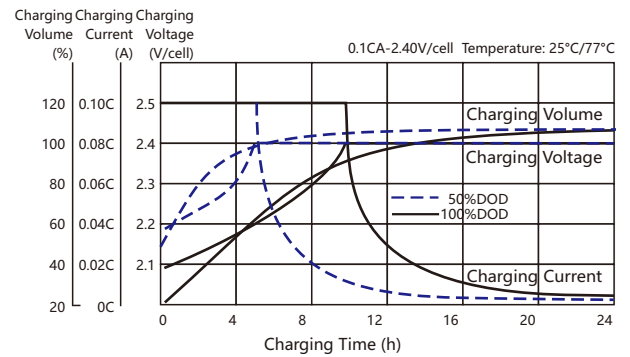


## Electrical Characteristics

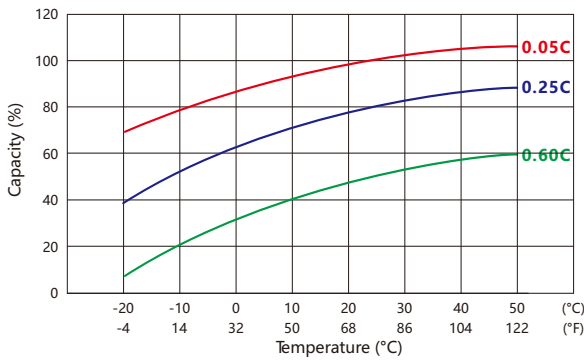
### Discharging Characteristics(25°C)



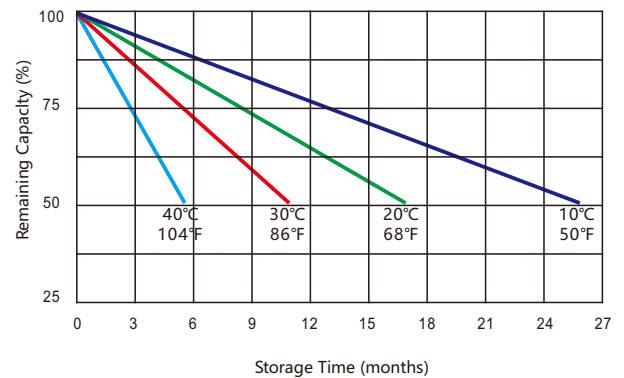
### Charging Characteristics(25°C)



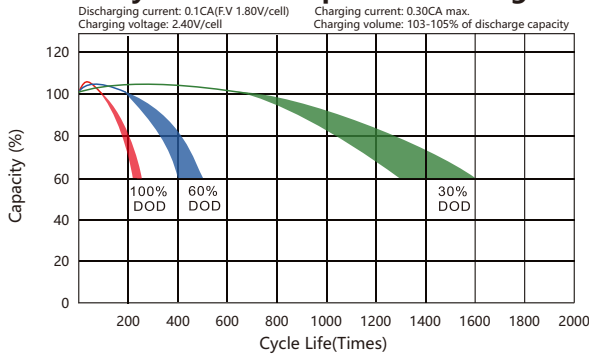
### Capacity vs Temperature



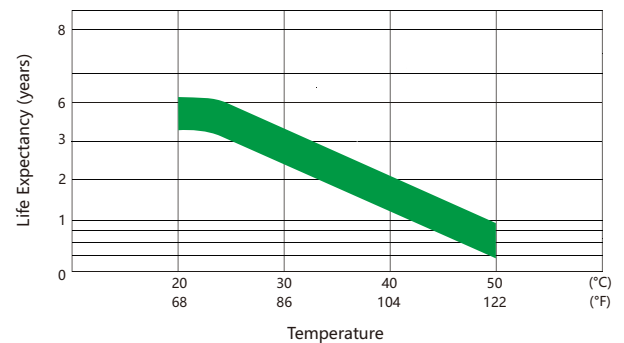
### Self-discharge vs Time



### Cycle Life vs Depth of Discharge



### Floating Life vs Temperature



## Usage and Maintenance

Charge Current	Equalization Charge	Float Charge
Limited current: $\leq 0.3C_{20A}$	Constant Voltage: 7.20~7.35V@25°C(77°F) Temp.Coefficient:-12mV/°C	Constant Voltage: 6.75~6.90V@25°C(77°F) Temp.Coefficient:-9mV/°C