

TN6-5.0 [6V 5.0Ah]



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
TN6-5.0	Length	Width	Height	Total Height	0.80/1.76	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	5.0Ah 20hr Rate (1.80V/cell) 4.74Ah 10hr Rate (1.80V/cell) 4.16Ah 5hr Rate (1.75V/cell) 3.63Ah 3hr Rate (1.70V/cell)	22mΩ@25°C/77°F	75A (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	16.2	10.5	8.74	7.18	5.02	3.48	2.71	1.53	1.12	0.920	0.791	0.690	0.558	0.463	0.247
1.80V/cell	17.5	11.1	9.08	7.35	5.15	3.57	2.78	1.56	1.15	0.944	0.811	0.710	0.573	0.474	0.250
1.75V/cell	18.1	11.4	9.31	7.54	5.27	3.66	2.85	1.60	1.18	0.968	0.831	0.726	0.588	0.484	0.257
1.70V/cell	18.8	11.7	9.50	7.72	5.39	3.77	2.93	1.65	1.21	0.994	0.852	0.748	0.604	0.495	0.261
1.67V/cell	19.2	12.0	9.71	7.92	5.50	3.85	2.99	1.69	1.24	1.01	0.871	0.761	0.614	0.502	0.266
1.60V/cell	19.9	12.5	10.1	8.18	5.66	3.95	3.07	1.76	1.28	1.04	0.893	0.782	0.629	0.515	0.271

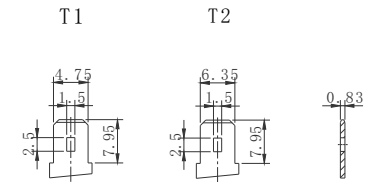
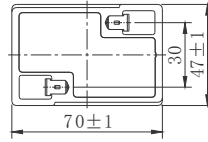
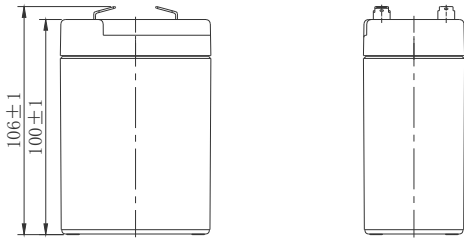
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	30.1	19.9	16.8	13.9	9.87	6.91	5.40	3.08	2.26	1.87	1.61	1.41	1.14	0.950	0.508
1.80V/cell	32.5	20.9	17.4	14.2	10.1	7.05	5.52	3.13	2.31	1.91	1.65	1.45	1.17	0.970	0.513
1.75V/cell	33.5	21.5	17.7	14.5	10.3	7.22	5.63	3.20	2.38	1.95	1.68	1.48	1.20	0.989	0.525
1.70V/cell	34.7	21.9	18.0	14.8	10.5	7.43	5.79	3.28	2.43	2.00	1.72	1.51	1.23	1.01	0.532
1.67V/cell	35.5	22.5	18.4	15.2	10.7	7.56	5.90	3.36	2.48	2.03	1.75	1.54	1.24	1.02	0.541
1.60V/cell	36.5	23.3	19.0	15.6	11.0	7.72	6.03	3.48	2.55	2.09	1.79	1.57	1.27	1.04	0.549

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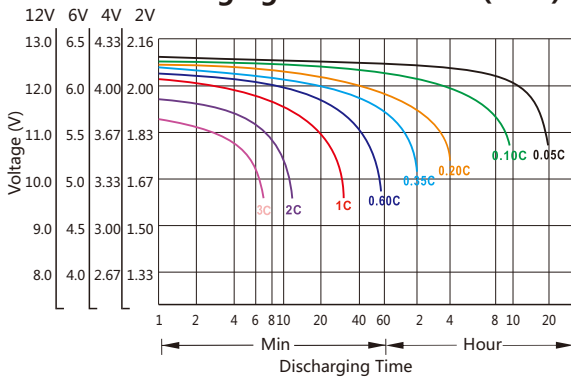


Battery Dimensions(mm)

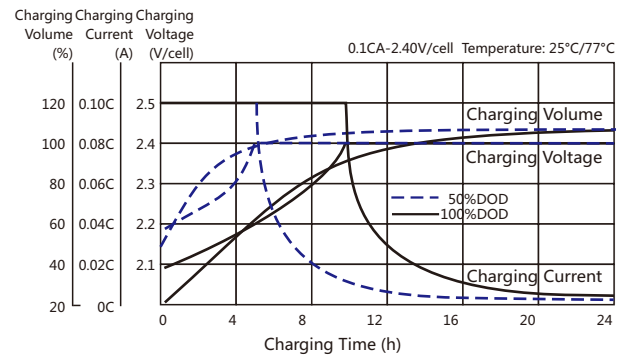


Electrical Characteristics

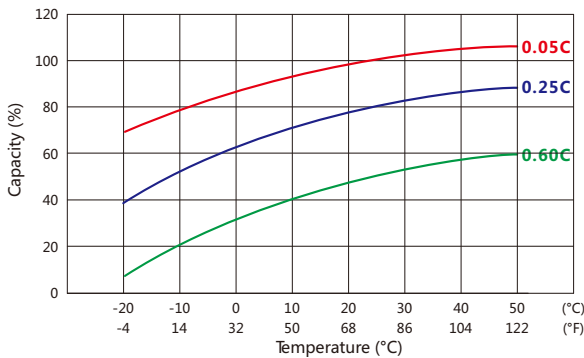
Discharging Characteristics(25°C)



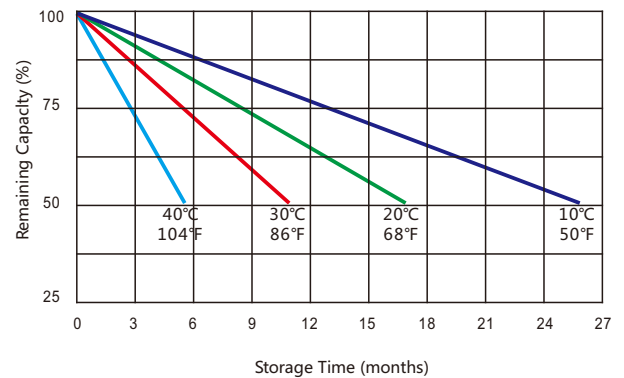
Charging Characteristics(25°C)



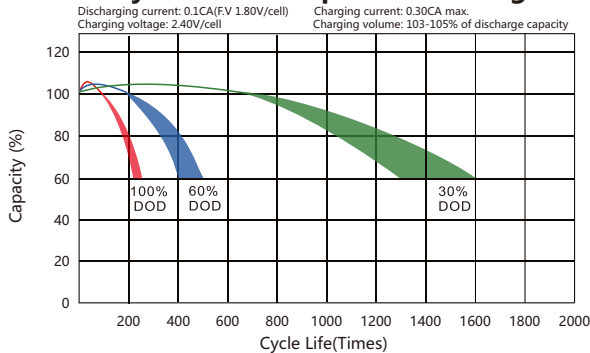
Capacity vs Temperature



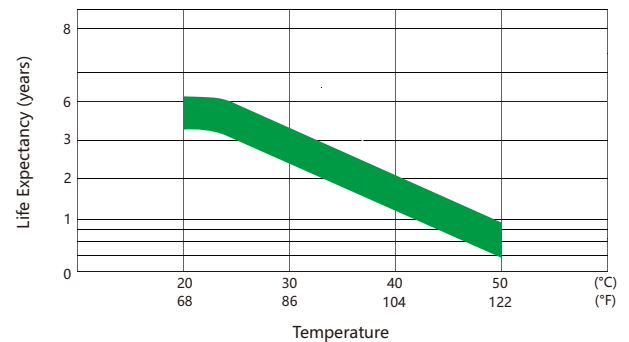
Self-discharge vs Time



Cycle Life vs Depth of Discharge



Floating Life vs Temperature



Usage and Maintenance

Charge Current	Equalization Charge	Float Charge
Limited current : ≤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