

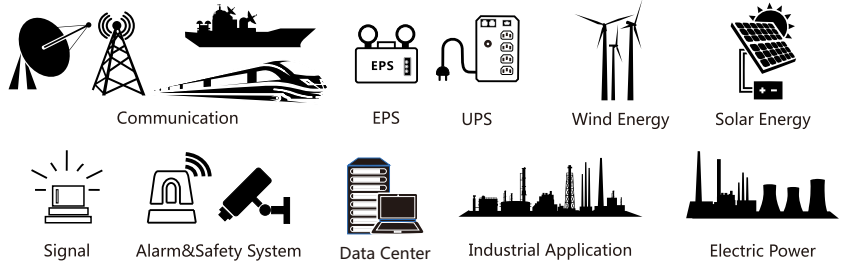
TN2-500B [2V 500Ah]



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
TN2-500B	Length	Width	Height	Total Height	29.0/63.9	17	ABS UL94-HB (Optional: FR ABS UL94-V0)
	240/9.45	170/6.69	330/13.0	341.5/13.4			

Product Specifications

Nominal Voltage	Rated Capacity ^{25°C/77°F}	Internal Resistance	Max. Discharge Current	Operating Temp. Range
2V	530Ah 20hr Rate (1.80V/cell) 500Ah 10hr Rate (1.80V/cell) 428Ah 5hr Rate (1.75V/cell) 384Ah 3hr Rate (1.70V/cell)	0.41mΩ@25°C/77°F	3100A (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	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	312	255	158	121	97.6	82.2	72.3	57.6	49.1	26.1
1.83V/cell	340	263	161	123	99.0	83.5	73.0	58.1	49.6	26.3
1.80V/cell	369	271	165	125	101	84.6	73.8	58.7	50.0	26.5
1.75V/cell	393	279	169	127	102	85.5	74.6	59.2	51.0	27.3
1.70V/cell	411	287	171	128	102	86.2	75.2	59.7	51.5	27.5

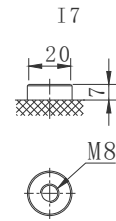
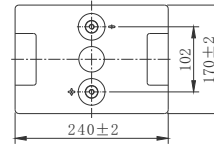
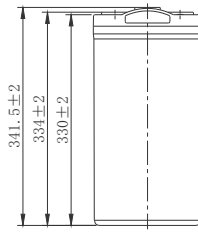
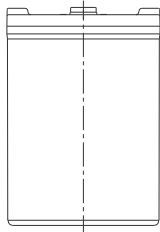
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	592	492	307	237	193	164	145	116	98.6	52.5
1.83V/cell	639	503	313	240	196	166	146	116	99.5	52.8
1.80V/cell	686	514	319	243	198	168	147	117	100	53.1
1.75V/cell	720	523	324	243	199	169	148	118	102	54.7
1.70V/cell	740	526	326	244	199	170	149	119	103	55.0

TN2-500B [2V 500Ah]

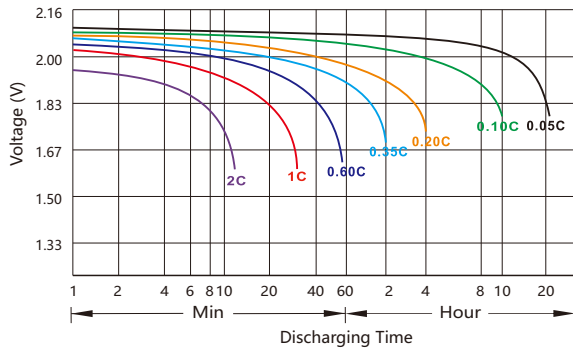


Battery Dimensions(mm)

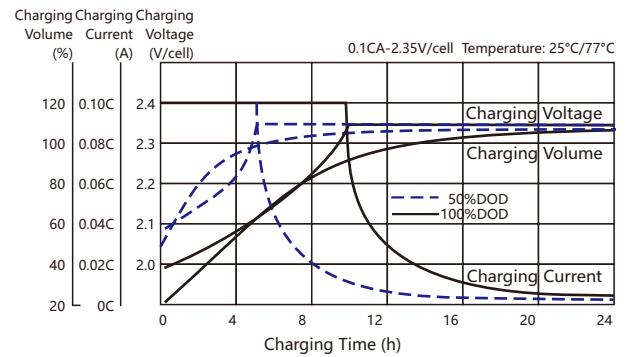


Electrical Characteristics

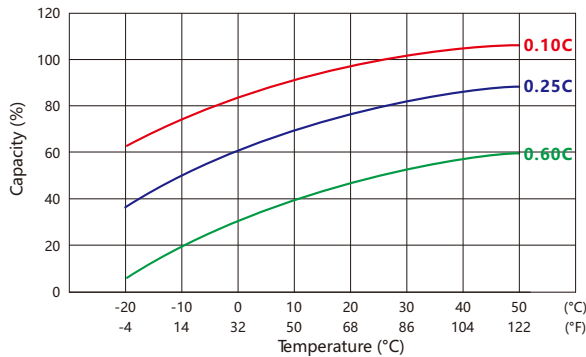
Discharging Characteristics(25°C)



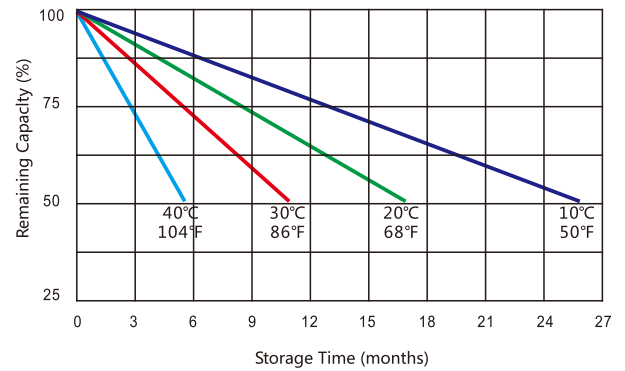
Charging Characteristics(25°C)



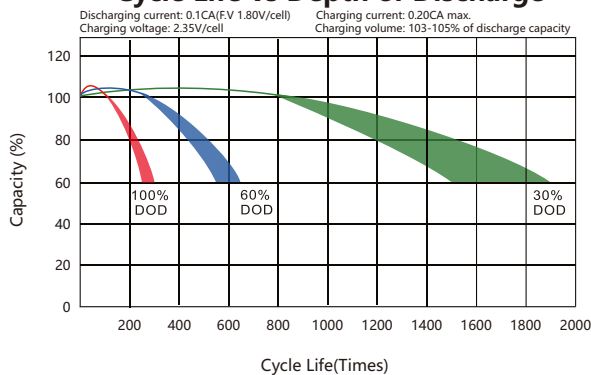
Capacity vs Temperature



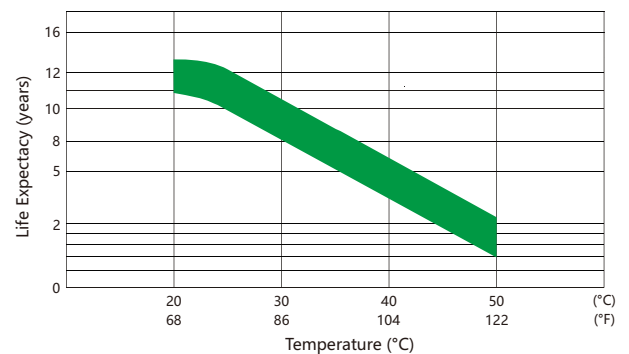
Self-discharge vs Time



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