

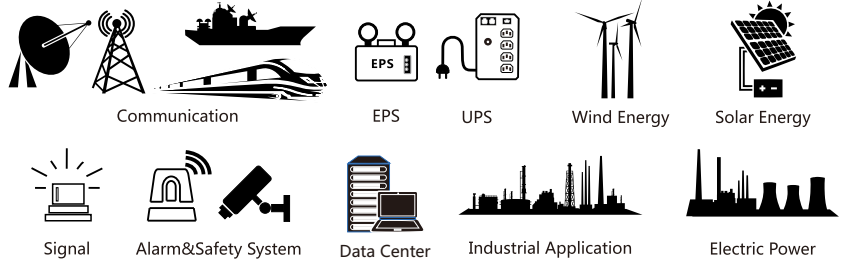
# TN2-400B [2V 400Ah]



## 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
	Length	Width	Height	Total Height			
TN2-400B	170/6.69	196/7.72	330/13.0	341.5/13.4	23.5/51.8	17	ABS UL94-HB (Optional: FR ABS UL94-V0)

## Product Specifications

Nominal Voltage	Rated Capacity 25°C/77°F	Internal Resistance	Max. Discharge Current	Operating Temp. Range
2V	424Ah 20hr Rate (1.80V/cell) 400Ah 10hr Rate (1.80V/cell) 342Ah 5hr Rate (1.75V/cell) 309Ah 3hr Rate (1.70V/cell)	0.51mΩ@25°C/77°F	2480A (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	250	204	126	96.8	78.1	65.8	57.8	46.1	39.2	20.9
1.83V/cell	272	210	129	98.4	79.2	66.8	58.4	46.5	39.7	21.0
1.80V/cell	295	216	132	100	80.4	67.7	59.0	47.0	40.0	21.2
1.75V/cell	314	223	135	101	81.2	68.4	59.7	47.4	40.8	21.9
1.70V/cell	329	229	137	103	81.8	69.0	60.1	47.8	41.2	22.0

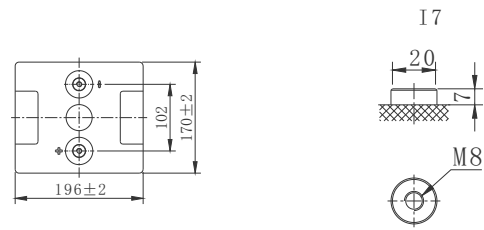
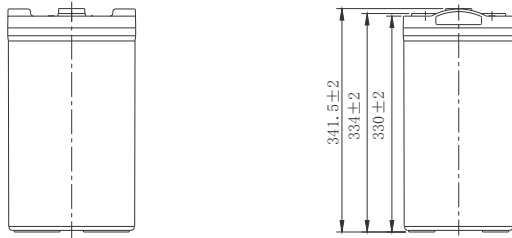
## Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	473	394	246	189	155	132	116	92.5	78.9	42.0
1.83V/cell	511	402	250	192	156	133	117	93.2	79.6	42.2
1.80V/cell	549	411	255	194	158	135	118	93.9	80.0	42.5
1.75V/cell	576	418	259	195	159	136	119	94.6	81.6	43.7
1.70V/cell	592	421	261	195	159	136	119	95.3	82.2	44.0

# TN2-400B [2V 400Ah]

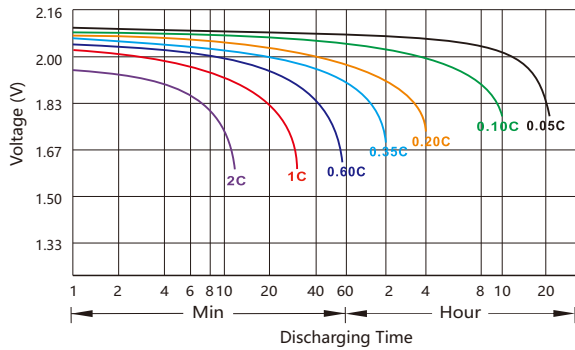


## Battery Dimensions(mm)

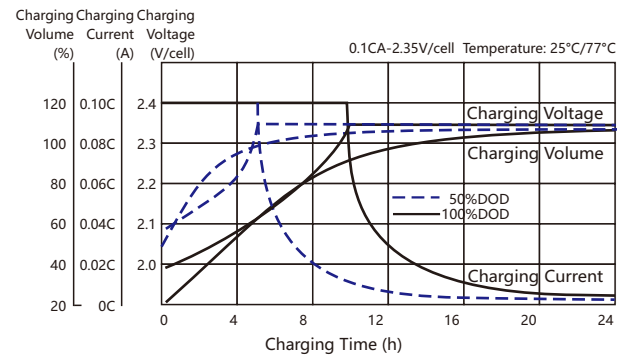


## Electrical Characteristics

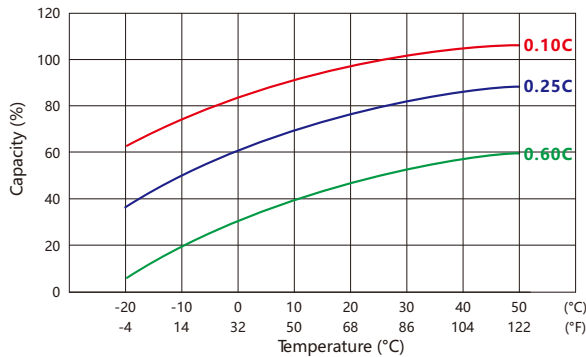
### Discharging Characteristics(25°C)



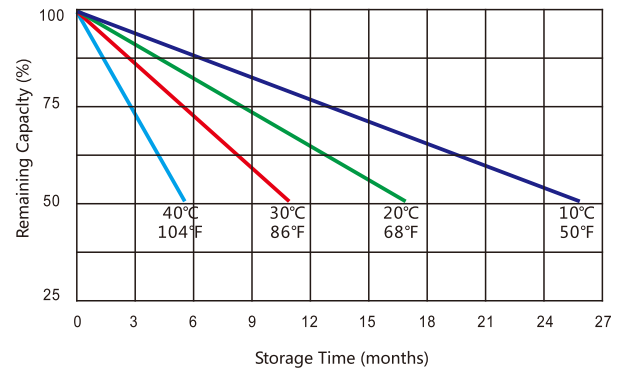
### Charging Characteristics(25°C)



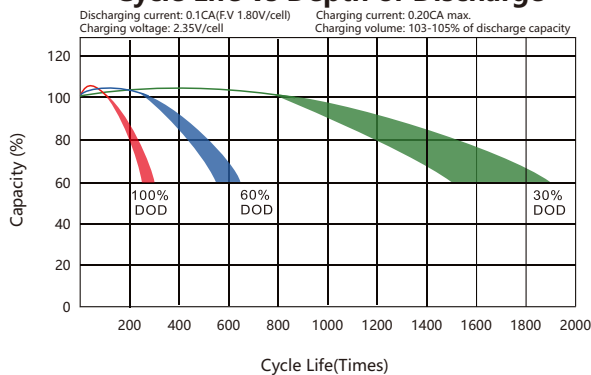
### Capacity vs Temperature



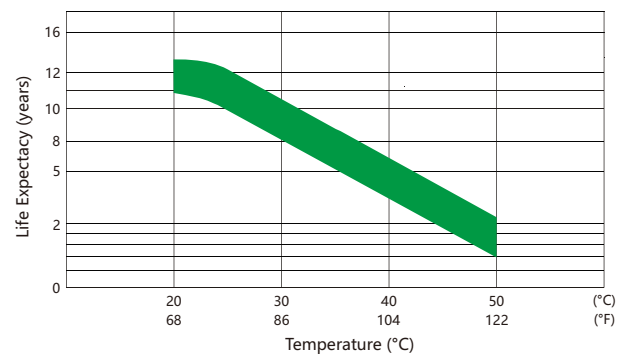
### Self-discharge vs Time



### 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