

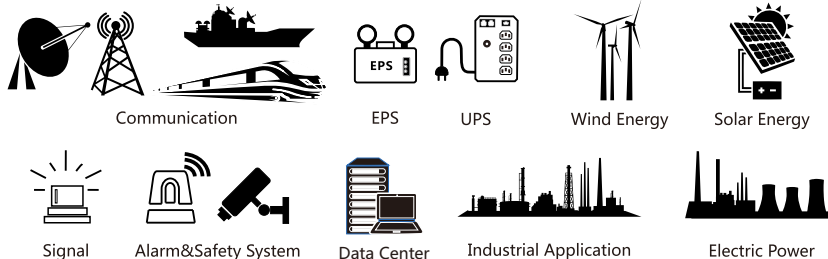
# TN2-400 [2V 400Ah]



## 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
TN2-400	Length	Width	Height	Total Height	25.5/56.2	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	175/6.89	210/8.27	328/12.9	350/13.8			

## Product Specifications

Nominal Voltage	Rated Capacity@25°C/77°F	Internal Resistance	Max. Discharge Current	Operating Temp. Range
2V	426Ah 20hr Rate (1.80V/cell) 400Ah 10hr Rate (1.80V/cell) 351Ah 5hr Rate (1.75V/cell) 318Ah 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	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	547	463	422	390	327	269	225	134	98.2	79.1	66.6	58.1	47.1	39.0	20.9
1.80V/cell	672	526	472	421	348	281	236	140	102	81.5	68.5	59.8	48.1	40.0	21.3
1.75V/cell	806	586	512	448	365	293	245	144	105	83.1	70.1	61.2	48.9	40.6	21.6
1.70V/cell	883	641	549	473	382	304	251	146	106	84.7	71.3	62.1	49.5	41.1	22.0
1.67V/cell	994	698	578	498	398	314	258	149	108	86.3	72.4	62.9	50.1	41.7	22.4
1.60V/cell	1128	763	621	528	418	324	265	152	110	87.5	73.6	63.7	50.8	42.1	22.9

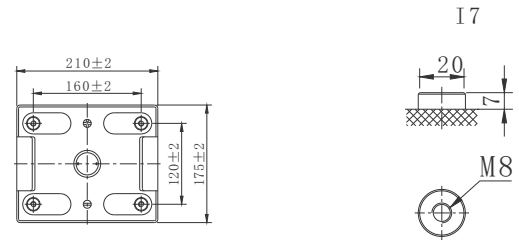
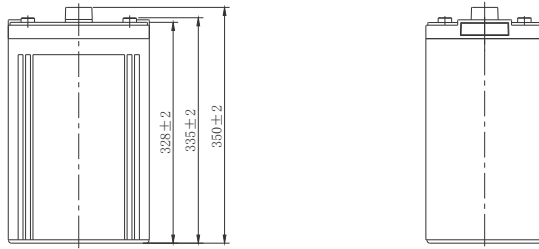
## Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1018	877	810	757	644	533	448	270	199	161	136	119	96.5	80.0	43.1
1.80V/cell	1249	993	902	815	683	555	469	281	206	165	139	122	98.4	81.9	43.7
1.75V/cell	1496	1102	975	862	714	579	486	287	210	168	142	124	99.8	83.1	44.2
1.70V/cell	1636	1202	1042	907	746	599	496	291	213	171	144	126	101	83.6	44.9
1.67V/cell	1835	1306	1094	953	775	616	509	296	215	173	146	127	102	84.7	45.6
1.60V/cell	2074	1420	1170	1006	808	633	521	300	218	175	148	128	103	85.0	46.4

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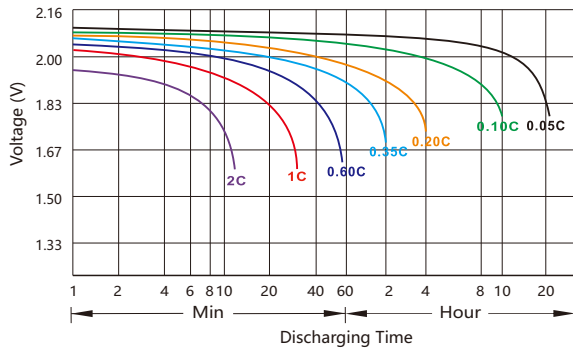


## Battery Dimensions(mm)

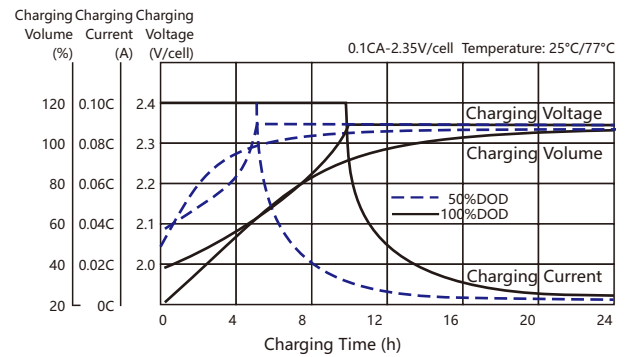


## Electrical Characteristics

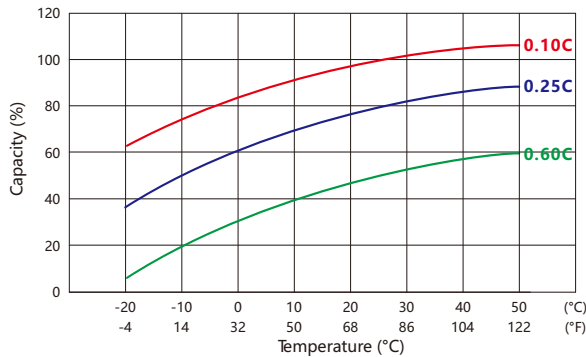
### Discharging Characteristics(25°C)



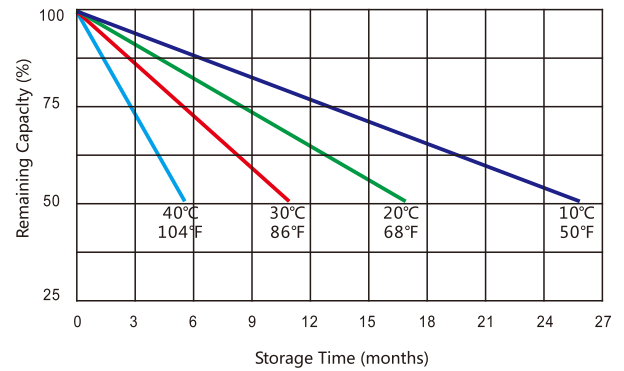
### Charging Characteristics(25°C)



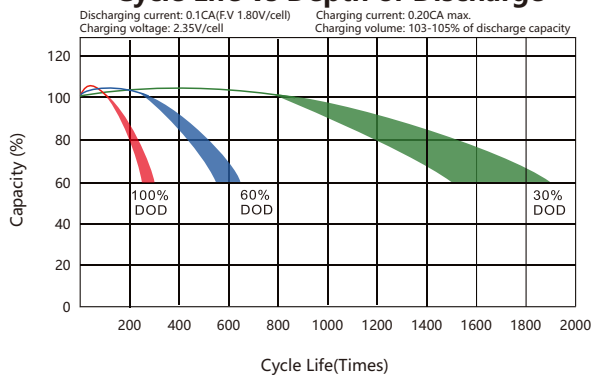
### Capacity vs Temperature



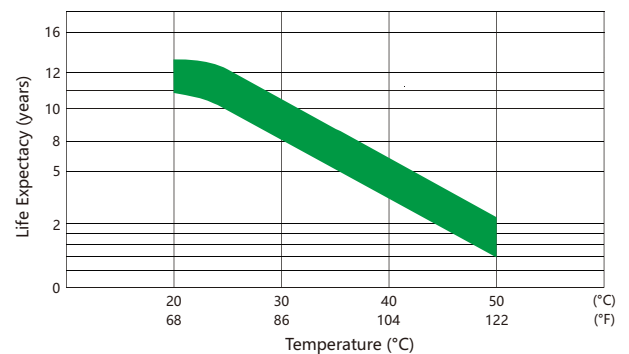
### Self-discharge vs Time



### 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