

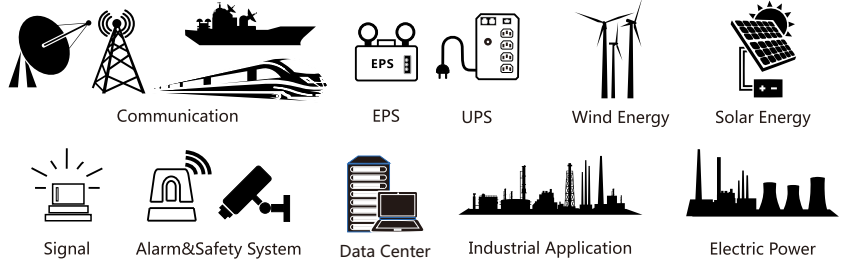
# TN2-100 [2V 100Ah]



## 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
TN2-100	Length	Width	Height	Total Height	7.0/15.4	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	172/6.77	102/4.02	205/8.07	227/8.94			

## Product Specifications

Nominal Voltage	Rated Capacity@25°C/77°F	Internal Resistance	Max. Discharge Current	Operating Temp. Range
2V	107Ah 20hr Rate (1.80V/cell) 100Ah 10hr Rate (1.80V/cell) 87.5Ah 5hr Rate (1.75V/cell) 79.5Ah 3hr Rate (1.70V/cell)	0.76mΩ@25°C/77°F	620A (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	137	116	106	97.5	81.8	67.2	56.3	33.6	24.5	19.8	16.7	14.5	11.8	9.74	5.24
1.80V/cell	168	131	118	105	87.0	70.1	59.1	35.1	25.5	20.4	17.1	15.0	12.0	10.0	5.33
1.75V/cell	202	146	128	112	91.2	73.3	61.4	35.9	26.1	20.8	17.5	15.3	12.2	10.2	5.40
1.70V/cell	221	160	137	118	95.6	76.0	62.7	36.5	26.5	21.2	17.8	15.5	12.4	10.3	5.51
1.67V/cell	248	175	144	125	99.6	78.4	64.5	37.3	26.9	21.6	18.1	15.7	12.5	10.4	5.61
1.60V/cell	282	191	155	132	104.4	80.9	66.3	37.9	27.4	21.9	18.4	15.9	12.7	10.5	5.72

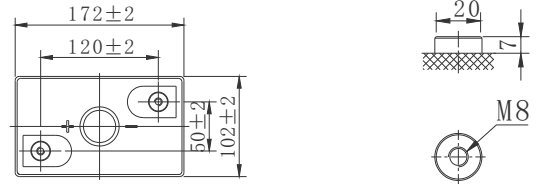
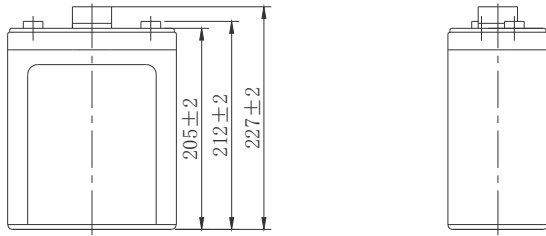
## Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	255	219	203	189	161	133	112	67.5	49.6	40.2	34.0	29.7	24.1	20.0	10.8
1.80V/cell	312	248	226	204	171	139	117	70.2	51.5	41.3	34.8	30.5	24.6	20.5	10.9
1.75V/cell	374	275	244	216	178	145	121	71.8	52.5	41.9	35.5	31.1	24.9	20.8	11.1
1.70V/cell	409	301	261	227	186	150	124	72.8	53.2	42.6	36.0	31.5	25.1	20.9	11.2
1.67V/cell	459	326	273	238	194	154	127	74.1	53.8	43.3	36.5	31.8	25.4	21.2	11.4
1.60V/cell	518	355	293	251	202	158	130	75.1	54.6	43.7	36.9	32.1	25.6	21.3	11.6

# TN2-100 [2V 100Ah]

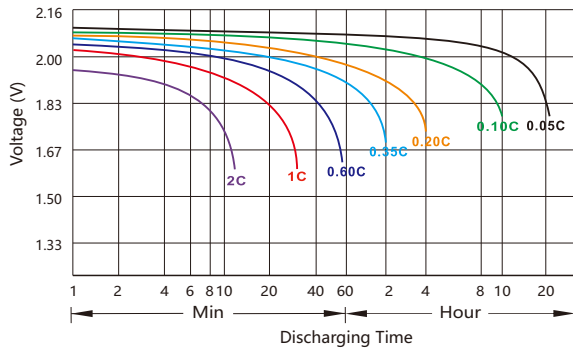


## Battery Dimensions(mm)

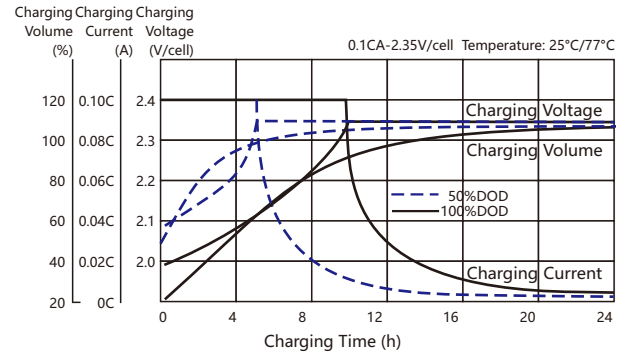


## Electrical Characteristics

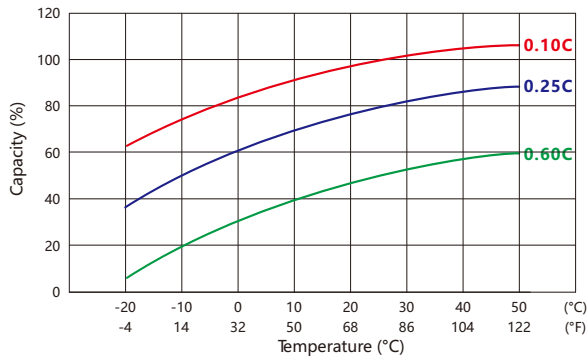
### Discharging Characteristics(25°C)



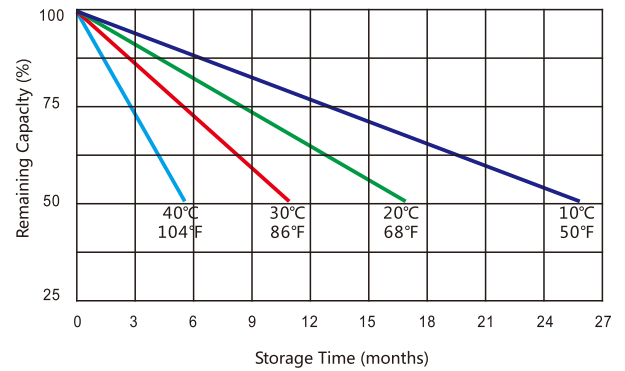
### Charging Characteristics(25°C)



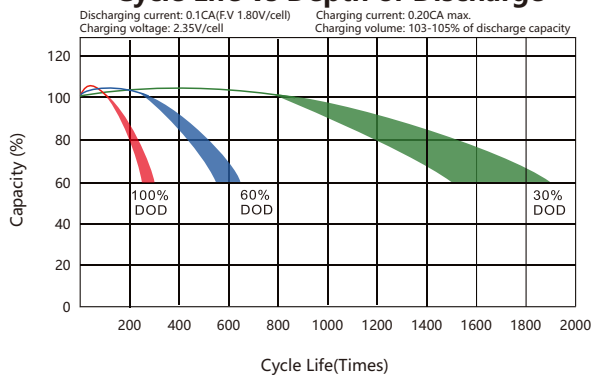
### Capacity vs Temperature



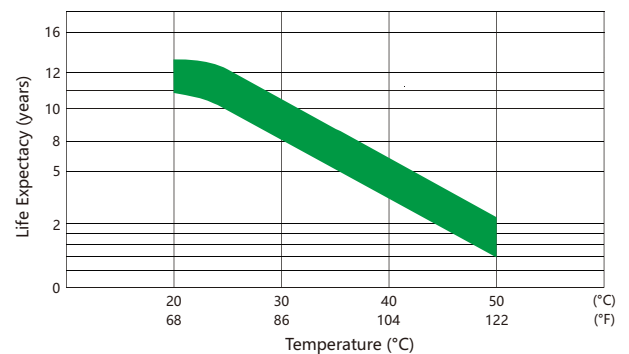
### Self-discharge vs Time



### 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