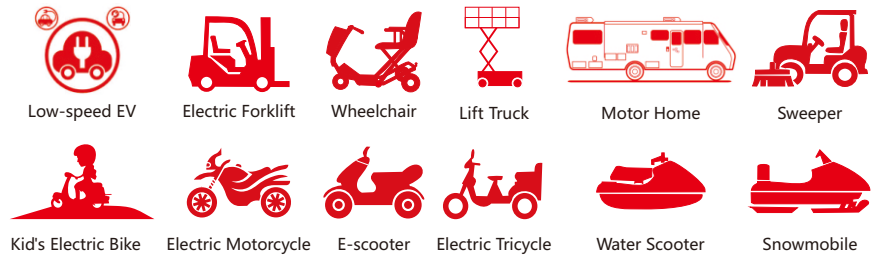


## Product Features

Deep Cycle Series	400~600 Cycle Times @100%DOD	
↑10% Energy Density Patent negative pasting formula	↓50% Grid Corrosion Rare-earth patent alloy	0% Acid stratification Nano silica gel technology

## Product Applications



## Physical Specification

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
TNE12-75	Length	Width	Height	Total Height	20/44.1	13	ABS UL94-HB (Optional: FR ABS UL94-V0)
	262/10.3	165/6.50	170/6.69	170/6.69			

## Product Specifications

Nominal Voltage	Rated Capacity <sup>25°C/77°C</sup>	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
12V	75Ah 20hr Rate (1.80V/cell) 68Ah 10hr Rate (1.75V/cell) 64Ah 5hr Rate (1.75V/cell) 60Ah 3hr Rate (1.75V/cell)	Discharge:-15°C~50°C (5°F~122°F) Charge:0°C~40°C (32°F~104°F) Storage:-15°C~40°C (5°F~104°F) Optimum:25°C±2°C (77°F±5°F)	40°C (104°F):106% 25°C (77°F):100% 0°C (32°F):85% -15°C (5°F):72%	Three months : 90% Six months : 80% Nine months : 60%

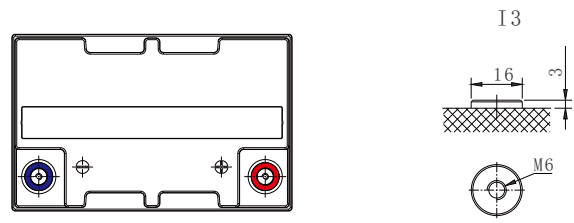
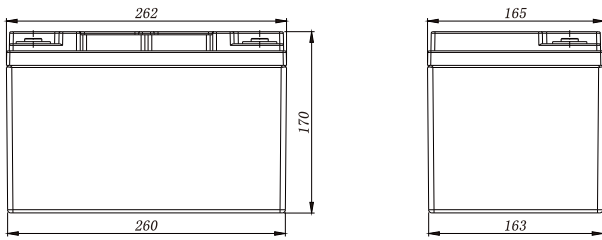
## Constant Current Discharge (A)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	80.4	57.3	45.9	26.3	18.6	14.68	12.00	10.21	7.87	6.45	3.63
1.80V/cell	83.3	59.0	47.3	27.2	19.3	15.11	12.47	10.59	8.10	6.61	3.75
1.75V/cell	85.5	61.2	49.1	28.9	20.0	15.66	12.75	10.81	8.33	6.75	3.82
1.70V/cell	87.6	62.8	50.8	29.3	20.5	16.20	13.28	11.34	8.53	6.92	3.91
1.67V/cell	89.4	64.8	52.6	29.7	20.7	16.35	13.58	11.40	8.72	7.04	3.94
1.60V/cell	91.8	66.7	53.6	30.6	21.4	16.84	13.87	11.74	8.93	7.28	3.97

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

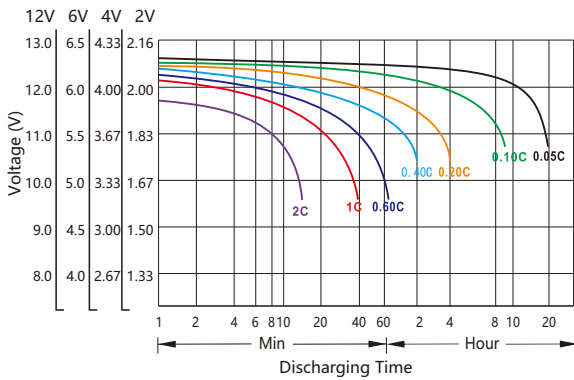
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	157.0	112.7	90.8	52.3	37.3	29.6	24.2	20.6	15.95	13.08	7.38
1.80V/cell	162.0	115.6	93.2	53.9	38.5	30.3	25.0	21.3	16.35	13.37	7.60
1.75V/cell	165.7	119.6	96.4	57.2	39.8	31.3	25.5	21.7	16.75	13.59	7.72
1.70V/cell	168.9	121.9	99.2	57.7	40.5	32.1	26.4	22.6	17.06	13.87	7.86
1.67V/cell	171.0	124.8	102.1	58.0	40.7	32.3	26.8	22.6	17.29	14.01	7.88
1.60V/cell	174.1	127.6	103.1	59.4	41.8	32.9	27.2	23.1	17.60	14.36	7.92

## Battery Dimensions(mm)

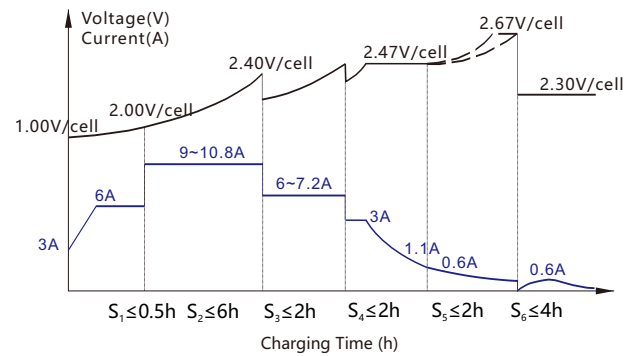


## Electrical Characteristics

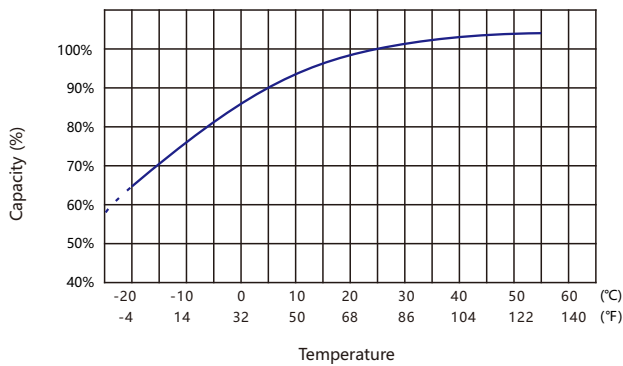
### Discharging Characteristics@25°C(77°F)



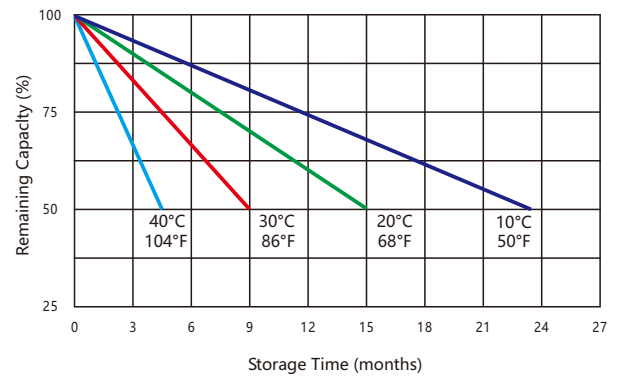
### Charging Characteristics@25°C(77°F)



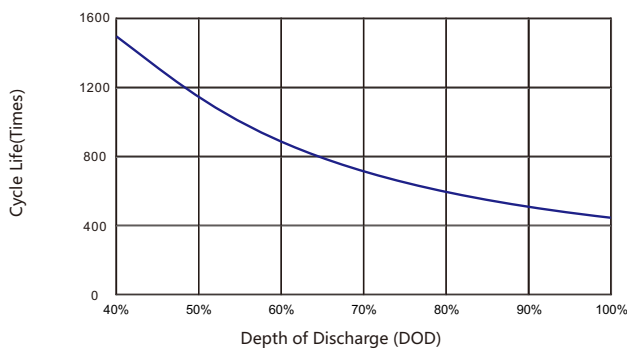
### Capacity vs Temperature



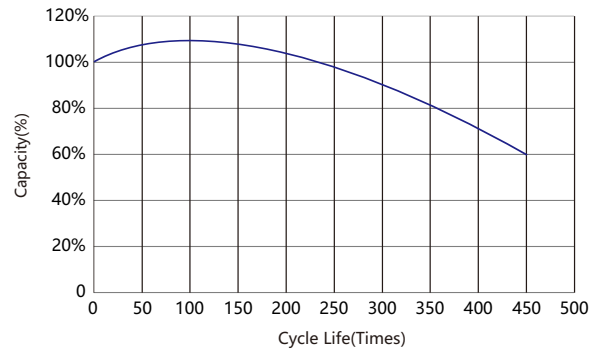
### Self-discharge vs Time



### Cycle Life vs Depth of Discharge@25°C(77°F)



### Cycle Life vs Remaining Capacity@25°C(77°F)



## Usage and Maintenance

Limited Current	Limited Voltage	Limited Voltage
Limited current: ≤0.2C <sub>5</sub> A	14.4V~14.8V@25°C(77°F) Temp.Coefficient:-24mV/°C	13.5V~13.8V@25°C(77°F) Temp.Coefficient:-18mV/°C