

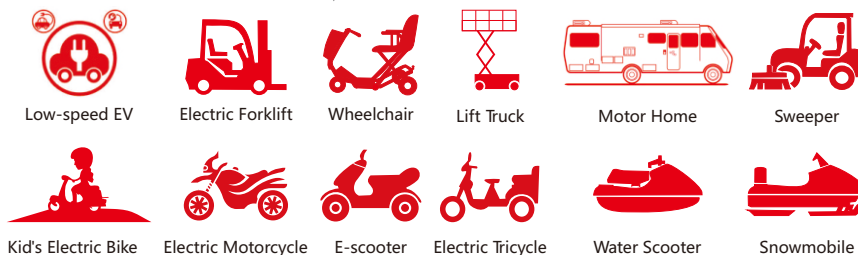
# TNE 6-270 [6V270Ah]



## 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
TNE6-270	Length	Width	Height	Total Height	36/79.4	17	ABS UL94-HB (Optional: FR ABS UL94-V0)
	260/10.2	180/7.09	270/10.6	274/10.8			

## Product Specifications

Nominal Voltage	Rated Capacity <sup>25°C/77°C</sup>	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
6V	270Ah 20hr Rate (1.80V/cell) 245Ah 10hr Rate (1.75V/cell) 233Ah 5hr Rate (1.75V/cell) 220Ah 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	289.4	206.3	165.2	94.5	68.1	53.62	43.75	37.18	28.61	23.40	13.05
1.80V/cell	299.7	212.4	170.4	97.7	70.7	55.22	45.44	38.54	29.45	24.01	13.50
1.75V/cell	307.8	220.3	176.6	104.0	73.3	57.20	46.52	39.39	30.30	24.52	13.76
1.70V/cell	315.4	226.1	182.8	105.6	75.0	59.13	48.36	41.23	31.01	25.14	14.07
1.67V/cell	321.8	233.3	189.3	106.8	75.9	59.69	49.41	41.47	31.67	25.56	14.19
1.60V/cell	330.5	240.1	193.1	110.3	78.6	61.47	50.52	42.68	32.44	26.38	14.30

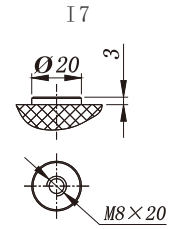
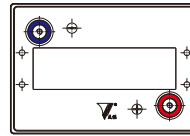
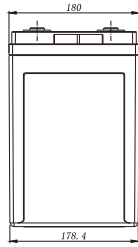
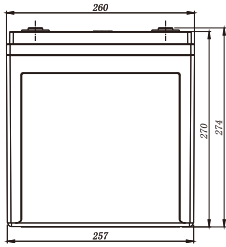
## Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	565.3	405.7	326.8	188.4	136.6	107.9	88.3	75.1	57.97	47.45	26.58
1.80V/cell	583.1	416.2	335.6	194.1	141.2	110.7	91.2	77.6	59.42	48.55	27.36
1.75V/cell	596.5	430.7	347.1	205.8	145.9	114.2	93.1	79.0	60.90	49.38	27.80
1.70V/cell	608.0	438.8	357.0	207.8	148.4	117.3	96.2	82.2	62.03	50.36	28.29
1.67V/cell	615.6	449.4	367.4	208.9	149.2	117.8	97.7	82.1	62.81	50.84	28.36
1.60V/cell	626.8	459.3	371.2	214.0	153.1	120.3	99.0	83.8	63.92	52.07	28.52

# TNE 6-270 [6V270Ah]

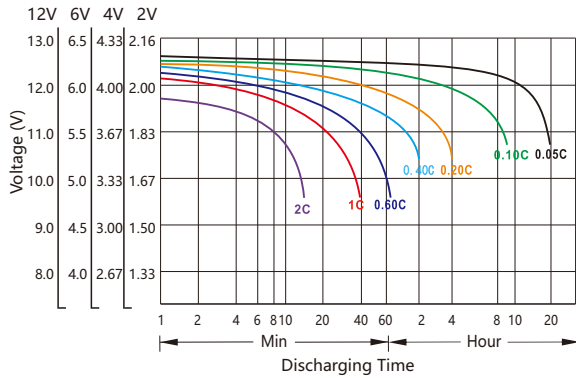


## Battery Dimensions(mm)

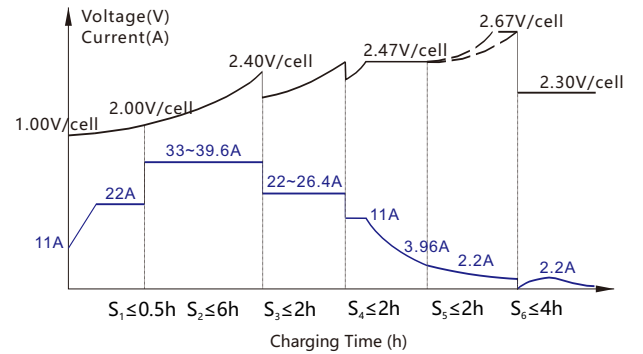


## Electrical Characteristics

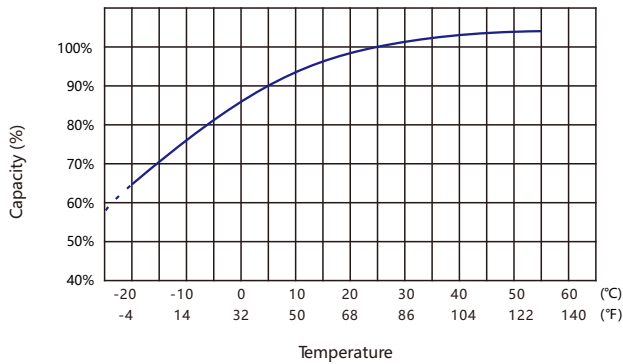
### Discharging Characteristics@25°C(77°F)



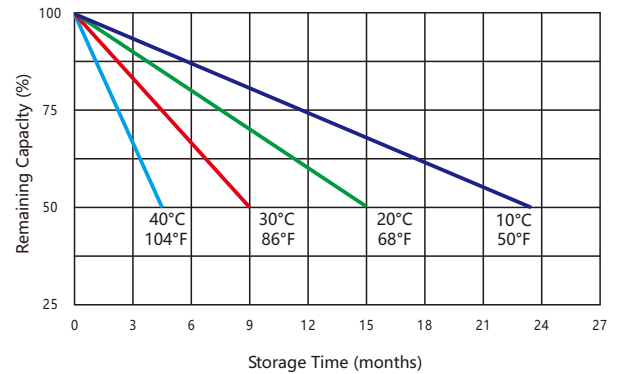
### Charging Characteristics@25°C(77°F)



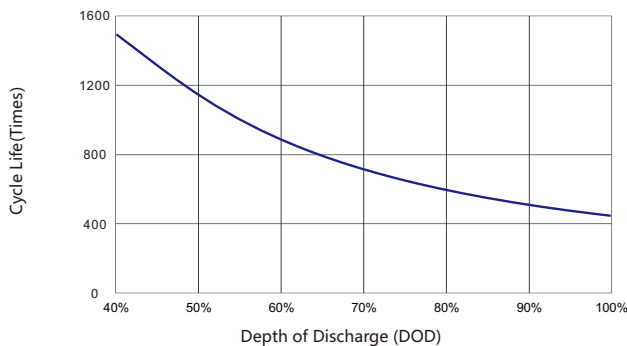
### Capacity vs Temperature



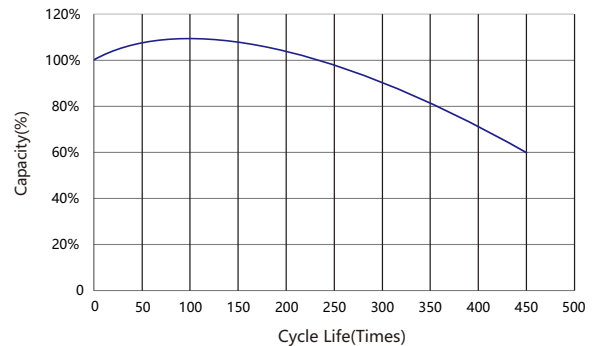
### Self-discharge vs Time



### 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 current:  $\leq 0.2C_3A$

### Limited Voltage

7.2V~7.4V@25°C(77°F)  
Temp.Coefficient:-12mV/°C

### Floating Voltage

6.75V~6.90V@25°C(77°F)  
Temp.Coefficient:-9mV/°C