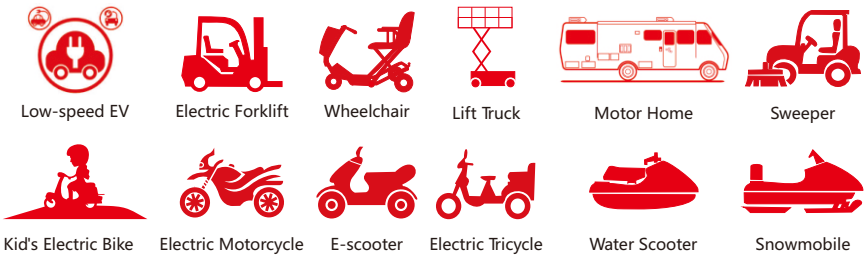
# TNE 12-25 [12V25Ah]




## Product Features

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

## Product Applications




## Physical Specifications

| Model | Dimensions (mm/inch) | | | | Weight (kg/lbs) | Terminal | Container |
|---|---|---|---|---|---|---|---|
| | Length | Width | Height | Total Height | | | |
| TNE12-25 | 181/7.13 | 77/3.03 | 169/6.65 | 170/6.69 | 6.45/14.2 | I10 | ABS UL94-HB (Optional: FR ABS UL94-V0) |

## Product Specifications

| Nominal Voltage | Rated Capacity25℃/77℉ | Opreating Temp.Range | Capacity Effected Temp | Capacity vs Storage Time |
|---|---|---|---|---|
| 12V | 25Ah 20hr Rate (1.80V/cell)<br>23.2Ah 10hr Rate (1.75V/cell)<br>22.6Ah 5hr Rate (1.75V/cell)<br>20.0Ah 2hr Rate (1.75V/cell) | Discharge:-15℃~50℃ (5℉~122℉)<br>Charge:0℃~40℃ (32℉~104℉)<br>Storage:-15℃~40℃ (5℉~104℉)<br>Optimum:25℃±2℃ (77℉±5℉) | 40℃ (104℉):106%<br>25℃ (77℉):100%<br>0℃ (32℉):85%<br>-15℃ (5℉):72% | Three months : 90%<br>Six months : 80%<br>Nine months : 60% |

## Constant Current Discharge (A)@25℃ (77℉)

| F.V/Time | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85V/cell | 28.2 | 20.1 | 15.9 | 9.10 | 6.38 | 4.93 | 4.09 | 3.49 | 2.72 | 2.22 | 1.21 |
| 1.80V/cell | 29.1 | 20.6 | 16.4 | 9.41 | 6.52 | 5.09 | 4.26 | 3.62 | 2.79 | 2.27 | 1.25 |
| 1.75V/cell | 30.0 | 21.5 | 17.0 | 10.0 | 6.87 | 5.27 | 4.52 | 3.80 | 2.87 | 2.32 | 1.27 |
| 1.70V/cell | 30.7 | 22.0 | 17.6 | 10.2 | 7.01 | 5.45 | 4.56 | 3.87 | 2.94 | 2.38 | 1.30 |
| 1.67V/cell | 31.4 | 22.7 | 18.2 | 10.3 | 7.11 | 5.59 | 4.70 | 3.95 | 3.01 | 2.42 | 1.31 |
| 1.60V/cell | 32.2 | 23.3 | 18.6 | 10.6 | 7.36 | 5.74 | 4.76 | 4.05 | 3.08 | 2.50 | 1.32 |

## Constant Power Discharge (W/cell)@25℃ (77℉)

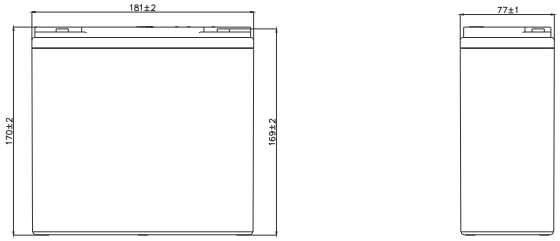
| F.V/Time | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85V/cell | 55.0 | 39.5 | 31.5 | 18.1 | 12.8 | 9.93 | 8.25 | 7.04 | 5.50 | 4.49 | 2.46 |
| 1.80V/cell | 56.6 | 40.4 | 32.3 | 18.7 | 13.0 | 10.2 | 8.54 | 7.29 | 5.63 | 4.59 | 2.53 |
| 1.75V/cell | 58.0 | 42.0 | 33.5 | 19.8 | 13.7 | 10.5 | 9.05 | 7.61 | 5.77 | 4.67 | 2.57 |
| 1.70V/cell | 59.2 | 42.7 | 34.3 | 20.0 | 13.9 | 10.8 | 9.07 | 7.71 | 5.88 | 4.76 | 2.62 |
| 1.67V/cell | 60.0 | 43.8 | 35.4 | 20.1 | 14.0 | 11.0 | 9.28 | 7.83 | 5.96 | 4.81 | 2.63 |
| 1.60V/cell | 61.1 | 44.6 | 35.7 | 20.6 | 14.3 | 11.2 | 9.33 | 7.96 | 6.07 | 4.93 | 2.64 |

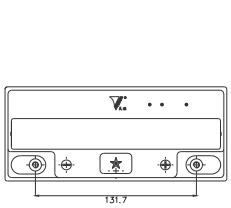
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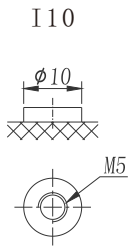
www.tiannenggroup.com
Email: export@tiannenggroup.com

# TNE 12-25 [12V25Ah]

## Battery Dimensions(mm)

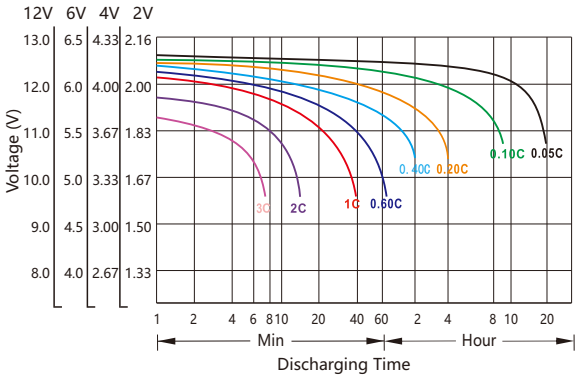


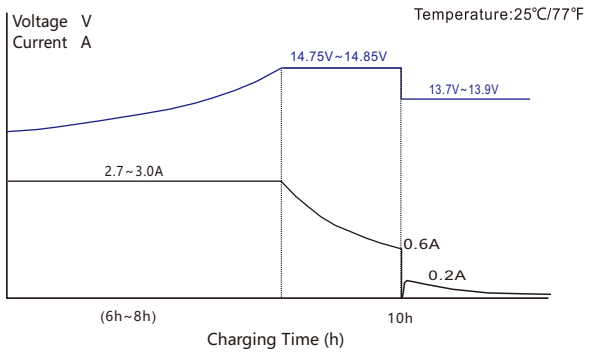




## Electrical Characteristics

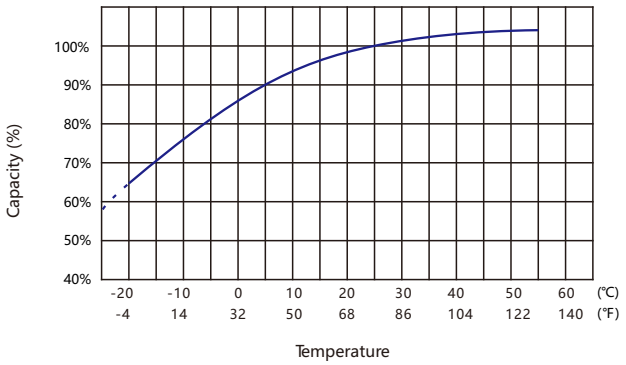
### Discharging Characteristics@25℃(77℉)



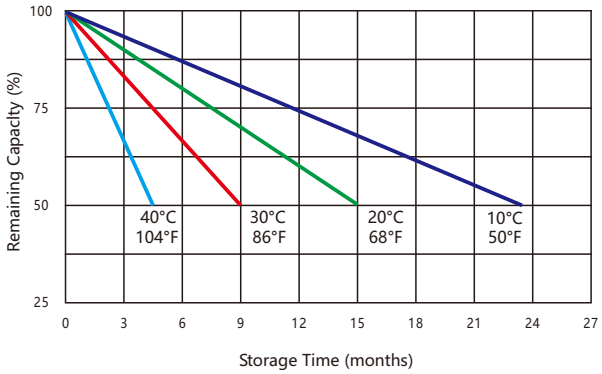

### Charging Characteristics@25℃(77℉)



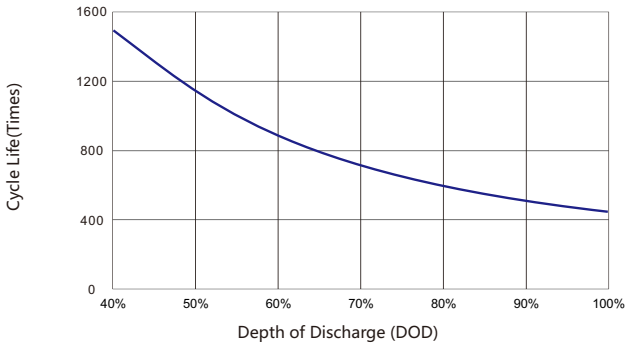

### Capacity vs Temperature



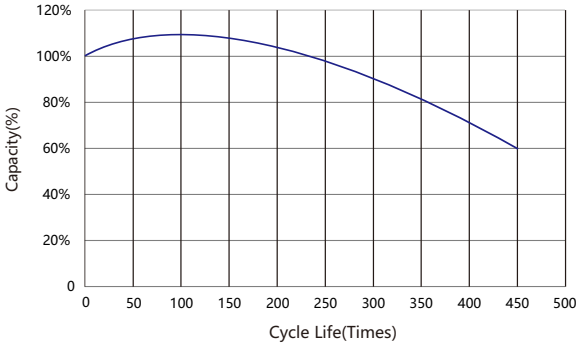

### Self-discharge vs Time




### Cycle Life vs Depth of Discharge@25℃(77℉)




### Cycle Life vs Remaining Capacity@25℃(77℉)




## Usage and Maintenance

| Limited Current | Limited Voltage | Floating Voltage |
|---|---|---|
| Limited current: ≤0.2$C_2$A | 14.75V~14.85V@25℃(77℉)<br>Temp.Coefficient:-24mV/℃ | 13.7V~13.9V@25℃(77℉)<br>Temp.Coefficient:-18mV/℃ |

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