

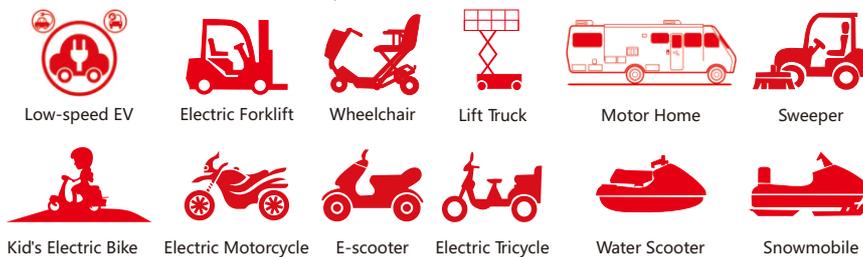
EVEREST TNE12-75 (12V-75AH/C20)



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 |
|----------|----------------------|----------|----------|--------------|-----------------|----------|---|
| | Length | Width | Height | Total Height | | | |
| TNE12-75 | 260/10.2 | 168/6.61 | 179/7.04 | 179/7.04 | 20/44.8 | I3 | ABS UL94-HB (Optional: FR ABS UL94-V0) |

Product Specifications

| Nominal Voltage | Rated Capacity 25°C/77°C | Operating Temp. Range | Capacity Effected Temp | Capacity vs Storage Time |
|-----------------|---|---|--|---|
| 12V | 75Ah 20hr Rate (1.80V/cell) 63Ah 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% |

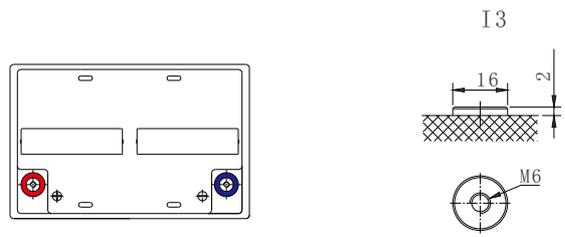
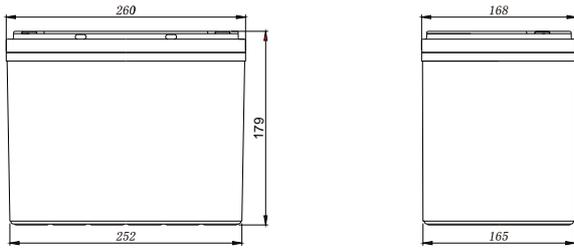
Constant Current Discharge (A)@25°C (77°F)

| F.V/Time | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|------|------|------|-------|-------|-------|-------|------|------|
| 1.85V/cell | 96.5 | 68.8 | 55.1 | 31.5 | 22.0 | 17.43 | 14.26 | 12.15 | 9.38 | 7.70 | 4.35 |
| 1.80V/cell | 99.9 | 70.8 | 56.8 | 32.6 | 22.8 | 17.93 | 14.82 | 12.60 | 9.65 | 7.89 | 4.50 |
| 1.75V/cell | 102.6 | 73.4 | 58.9 | 34.7 | 23.7 | 18.58 | 15.15 | 12.86 | 9.93 | 8.05 | 4.59 |
| 1.70V/cell | 105.1 | 75.4 | 60.9 | 35.2 | 24.2 | 19.24 | 15.79 | 13.50 | 10.16 | 8.25 | 4.69 |
| 1.67V/cell | 107.3 | 77.8 | 63.1 | 35.6 | 24.5 | 19.41 | 16.15 | 13.57 | 10.39 | 8.40 | 4.73 |
| 1.60V/cell | 110.2 | 80.0 | 64.4 | 36.8 | 25.4 | 19.99 | 16.51 | 13.98 | 10.65 | 8.68 | 4.77 |

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

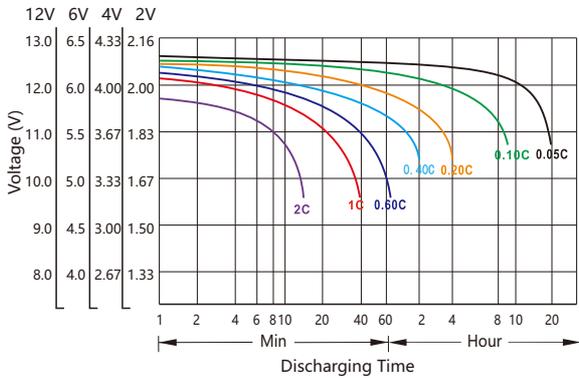
| F.V/Time | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|------|------|------|------|------|-------|-------|------|
| 1.85V/cell | 188.4 | 135.2 | 108.9 | 62.8 | 44.1 | 35.1 | 28.8 | 24.5 | 19.01 | 15.61 | 8.86 |
| 1.80V/cell | 194.4 | 138.7 | 111.9 | 64.7 | 45.6 | 36.0 | 29.7 | 25.4 | 19.47 | 15.95 | 9.12 |
| 1.75V/cell | 198.8 | 143.6 | 115.7 | 68.6 | 47.1 | 37.1 | 30.3 | 25.8 | 19.95 | 16.20 | 9.27 |
| 1.70V/cell | 202.7 | 146.3 | 119.0 | 69.3 | 47.9 | 38.2 | 31.4 | 26.9 | 20.32 | 16.53 | 9.43 |
| 1.67V/cell | 205.2 | 149.8 | 122.5 | 69.6 | 48.2 | 38.3 | 31.9 | 26.9 | 20.61 | 16.71 | 9.45 |
| 1.60V/cell | 208.9 | 153.1 | 123.7 | 71.3 | 49.4 | 39.1 | 32.4 | 27.5 | 20.98 | 17.14 | 9.51 |

Battery Dimensions(mm)

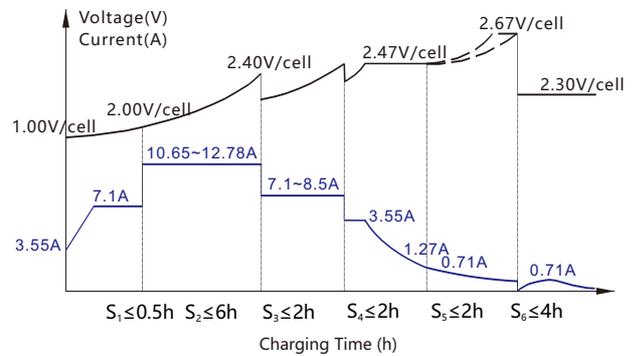


Electrical Characteristics

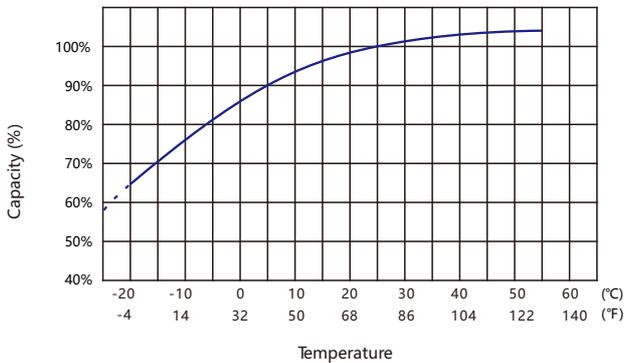
Discharging Characteristics@25°C(77°F)



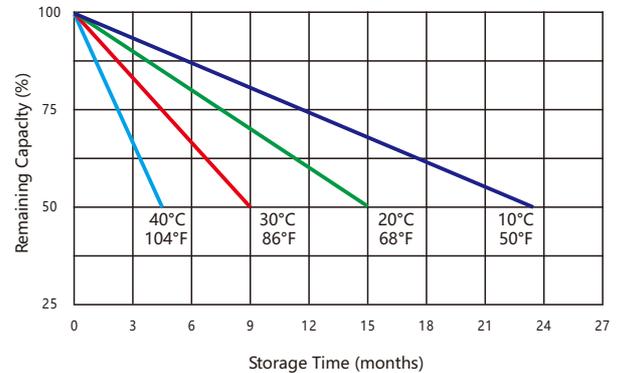
Charging Characteristics@25°C(77°F)



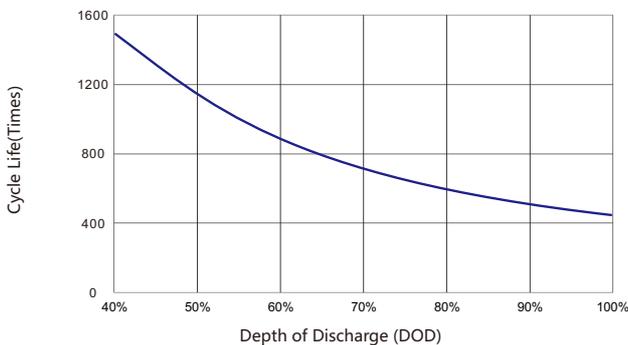
Capacity vs Temperature



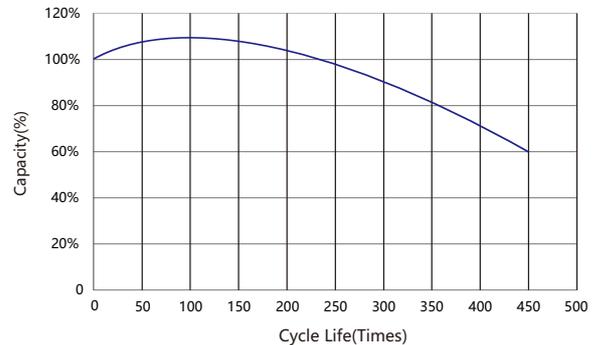
Self-discharge vs Time



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

14.4V~14.8V@25°C(77°F)
Temp.Coefficient:-24mV/°C

Floating Voltage

13.5V~13.8V@25°C(77°F)
Temp.Coefficient:-18mV/°C