

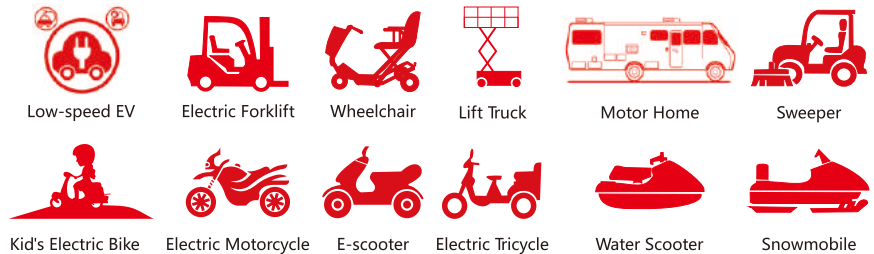
# EVEREST TNE6-245 (6V-200AH/C5)



## Product Features

| Deep Cycle Series                                                |                                                            | 400~600 Cycle Times @100%DOD                             |                                                                |
|------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|
| <b>↑10%</b><br>Energy Density<br>Patent negative pasting formula | <b>↑15%</b><br>Capacity@-15°C<br>Special premixed additive | <b>↓50%</b><br>Grid Corrosion<br>Rare-earth patent alloy | <b>0%</b><br>Acid stratification<br>Nano silica gel technology |

## Product Applications



## Physical Specification

| Model    | Dimensions (mm/inch) |          |          |              | Weight (kg/lbs) | Terminal | Container                                 |
|----------|----------------------|----------|----------|--------------|-----------------|----------|-------------------------------------------|
| TNE6-245 | Length               | Width    | Height   | Total Height | 32.5/71.7       | I7       | ABS UL94-HB<br>(Optional: FR ABS UL94-V0) |
|          | 243/9.57             | 188/7.40 | 275/10.8 | 275/10.8     |                 |          |                                           |

## Product Specifications

| Nominal Voltage | Rated Capacity 25°C/77°C                                                                                                     | Operating Temp. Range                                                                                                             | Capacity Effected Temp                                                     | Capacity vs Storage Time                                    |
|-----------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------|
| 6V              | 245Ah 20hr Rate (1.80V/cell)<br>220Ah 10hr Rate (1.75V/cell)<br>215Ah 5hr Rate (1.75V/cell)<br>189.9Ah 3hr Rate (1.75V/cell) | Discharge:-15°C~50°C (5°F~122°F)<br>Charge:0°C~40°C (32°F~104°F)<br>Storage:-15°C~40°C (5°F~104°F)<br>Optimum:25°C±3°C (77°F±5°F) | 40°C (104°F):106%<br>25°C (77°F):100%<br>0°C (32°F):85%<br>-15°C (5°F):65% | Three months : 90%<br>Six months : 80%<br>Nine months : 60% |

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

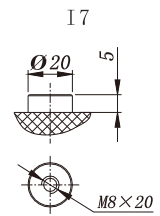
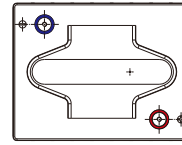
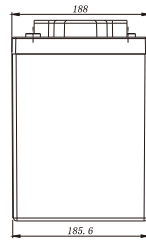
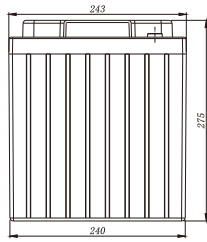
| F.V/Time   | 30min | 45min | 1h    | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 262.6 | 194.7 | 153.6 | 82.4 | 60.3 | 48.5 | 41.0 | 34.8 | 26.2 | 21.0 | 12.0 |
| 1.80V/cell | 271.5 | 199.6 | 157.3 | 84.5 | 61.6 | 49.7 | 41.9 | 35.6 | 26.7 | 21.5 | 12.3 |
| 1.75V/cell | 280.0 | 205.1 | 162.0 | 87.0 | 63.3 | 50.9 | 43.0 | 36.5 | 27.4 | 22.0 | 12.5 |
| 1.70V/cell | 288.6 | 211.4 | 166.1 | 88.9 | 64.7 | 52.2 | 44.0 | 37.3 | 28.0 | 22.5 | 12.8 |
| 1.67V/cell | 296.5 | 217.2 | 169.8 | 91.0 | 66.5 | 53.3 | 45.0 | 38.0 | 28.7 | 23.0 | 13.0 |
| 1.60V/cell | 305.3 | 223.1 | 174.4 | 93.3 | 67.9 | 54.5 | 46.0 | 39.0 | 29.6 | 23.6 | 13.3 |

## 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 | 507.8 | 379.7 | 300.8 | 162.5 | 119.4 | 96.4  | 81.6 | 69.4 | 52.3 | 42.0 | 24.1 |
| 1.80V/cell | 519.0 | 386.0 | 306.4 | 165.7 | 121.4 | 98.3  | 83.2 | 70.8 | 53.2 | 42.9 | 24.5 |
| 1.75V/cell | 530.9 | 394.2 | 313.8 | 169.8 | 124.4 | 100.4 | 85.1 | 72.4 | 54.5 | 43.8 | 25.0 |
| 1.70V/cell | 543.0 | 403.7 | 320.6 | 173.0 | 126.6 | 102.6 | 86.8 | 73.7 | 55.6 | 44.7 | 25.5 |
| 1.67V/cell | 554.0 | 413.1 | 326.4 | 176.4 | 129.7 | 104.4 | 88.4 | 75.0 | 56.9 | 45.8 | 26.0 |
| 1.60V/cell | 565.9 | 420.6 | 332.4 | 179.5 | 131.5 | 106.1 | 89.9 | 76.6 | 58.5 | 46.9 | 26.5 |

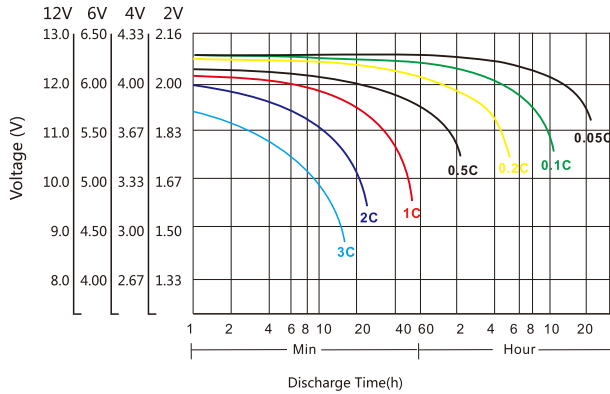
# EVEREST TNE6-245 (6V-200AH/C5)

## Battery Dimensions(mm)

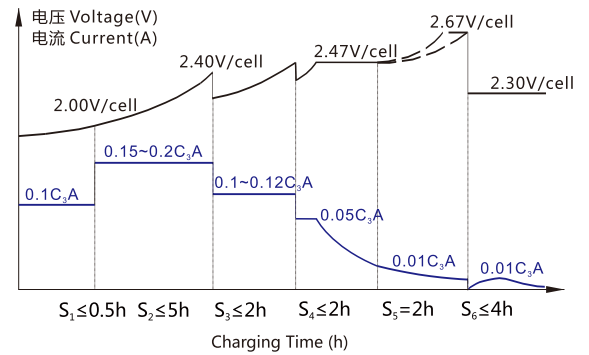


## Electrical Characteristics

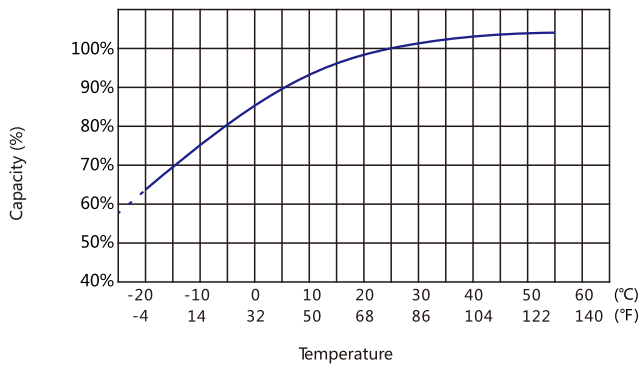
### Discharge Characteristics(25°C)



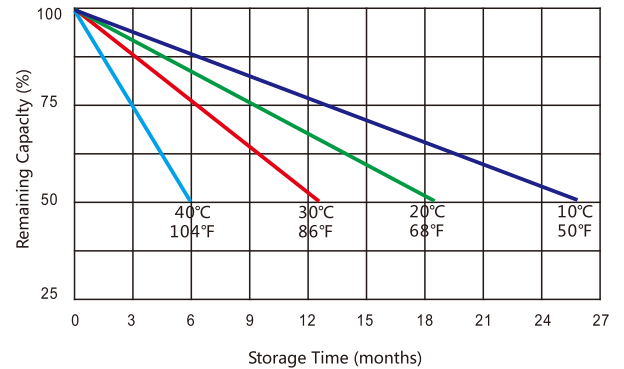
### Charging Characteristics(25°C)



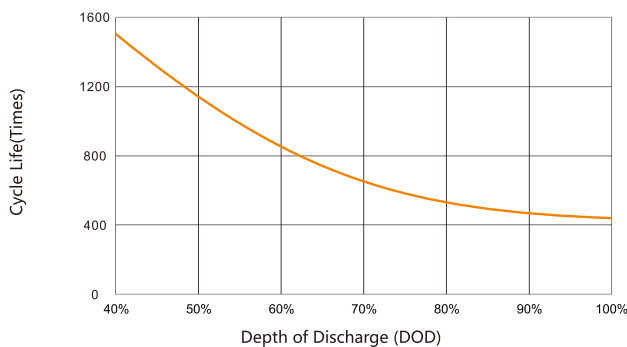
### Capacity vs Temperature



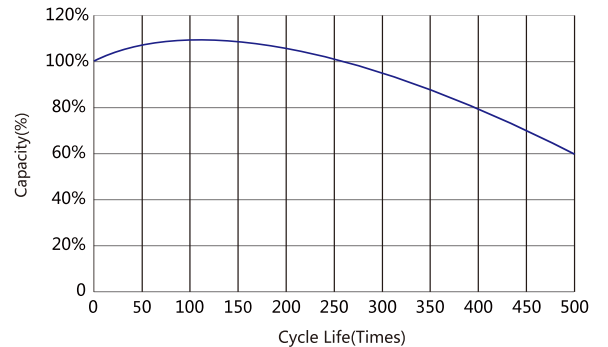
### Self-discharge vs Time



### Cycle Life vs Depth of Discharge



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



## Usage and Maintenance

| Limited Current          | Limited Voltage                                   | Limited Voltage                                    |
|--------------------------|---------------------------------------------------|----------------------------------------------------|
| Limited current : ≤0.2CA | 7.2V~7.4V@25°C(77°F)<br>Temp.Coefficient:-12mV/°C | 6.75V~6.90V@25°C(77°F)<br>Temp.Coefficient:-9mV/°C |