

# TN12-26 [12V 26Ah]

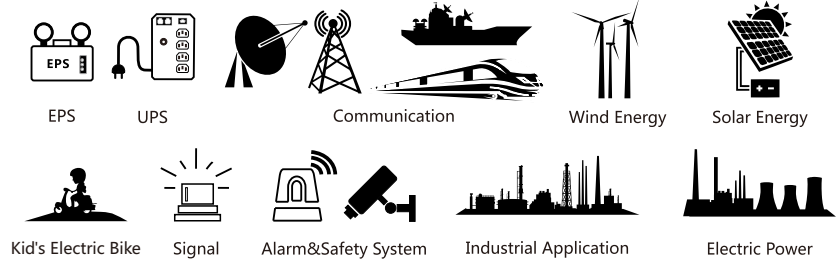


## Product Features

| General Purpose (AGM)                                    |   |  |   | 3~5 years of design life@25°C |
|--|---|--|---|-------------------------------|
| 100%<br>Model Coverage<br>Both Cycle & Float Application | ↑98%<br>Capacity Retention<br>High Purity Electrolyte | ↑20%<br>Charge Acceptance<br>Special Negative Additive | ↓50%<br>Grid Corrosion<br>Rare-earth patent alloy |                               |



## Product Applications



## Physical Specifications

| Model   | Dimensions (mm/inch) |          |          |              | Weight (kg/lbs) | Terminal | Container                                 |
|---------|----------------------|----------|----------|--------------|-----------------|----------|---|
| TN12-26 | Length               | Width    | Height   | Total Height | 8.50/18.7       | I1       | ABS UL94-HB<br>(Optional: FR ABS UL94-V0) |
|         | 166/6.54             | 175/6.89 | 125/4.92 | 125/4.92     |                 |          |   |

## Product Specifications

| Nominal Voltage | Rated Capacity <sup>25°C/77°F</sup>  | Internal Resistance | Max. Discharge Current | Operating Temp. Range   |
|-----------------|--|---------------------|------------------------|---|
| 12V             | 26.0Ah 20hr Rate (1.80V/cell)<br>24.6Ah 10hr Rate (1.80V/cell)<br>21.6Ah 5hr Rate (1.75V/cell)<br>18.9Ah 3hr Rate (1.70V/cell) | 13mΩ@25°C/77°F      | 390A (5s)              | Discharge:-15~50°C (5~122°F)<br>Charge:0~40°C (32~104°F)<br>Storage:-15~40°C (5~104°F)<br>Optimum:25±2°C (77±4°F) |

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

| F.V/Time   | 5min  | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 84.1  | 54.5  | 45.4  | 37.3  | 26.1  | 18.1  | 14.1 | 7.97 | 5.82 | 4.79 | 4.11 | 3.59 | 2.90 | 2.41 | 1.28 |
| 1.80V/cell | 90.8  | 57.6  | 47.2  | 38.2  | 26.8  | 18.5  | 14.4 | 8.13 | 5.97 | 4.91 | 4.22 | 3.69 | 2.98 | 2.46 | 1.30 |
| 1.75V/cell | 94.0  | 59.3  | 48.4  | 39.2  | 27.4  | 19.0  | 14.8 | 8.32 | 6.15 | 5.03 | 4.32 | 3.77 | 3.06 | 2.52 | 1.33 |
| 1.70V/cell | 97.5  | 60.6  | 49.4  | 40.2  | 28.0  | 19.6  | 15.2 | 8.57 | 6.30 | 5.17 | 4.43 | 3.89 | 3.14 | 2.57 | 1.36 |
| 1.67V/cell | 100.1 | 62.5  | 50.5  | 41.2  | 28.6  | 20.0  | 15.6 | 8.79 | 6.45 | 5.27 | 4.53 | 3.96 | 3.19 | 2.61 | 1.38 |
| 1.60V/cell | 103.3 | 65.2  | 52.4  | 42.5  | 29.4  | 20.5  | 16.0 | 9.13 | 6.66 | 5.43 | 4.64 | 4.06 | 3.27 | 2.68 | 1.41 |

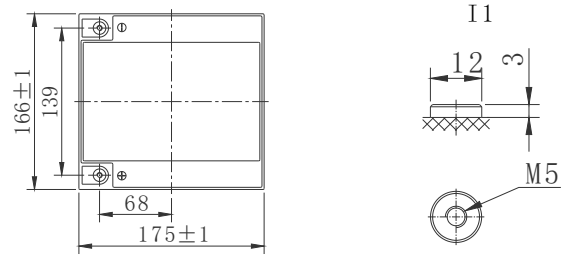
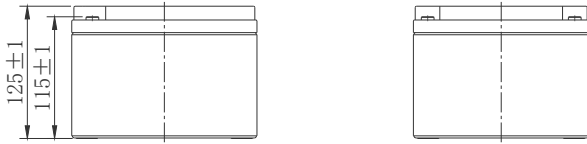
## Constant Power Discharge (W/cell)@25°C (77°F)

| F.V/Time   | 5min  | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 156.6 | 103.3 | 87.2  | 72.5  | 51.3  | 35.9  | 28.1 | 16.0 | 11.8 | 9.72 | 8.39 | 7.33 | 5.95 | 4.94 | 2.64 |
| 1.80V/cell | 168.8 | 108.9 | 90.3  | 73.9  | 52.5  | 36.7  | 28.7 | 16.3 | 12.0 | 9.94 | 8.57 | 7.53 | 6.10 | 5.05 | 2.67 |
| 1.75V/cell | 174.4 | 111.6 | 92.2  | 75.5  | 53.6  | 37.6  | 29.3 | 16.6 | 12.4 | 10.2 | 8.76 | 7.67 | 6.24 | 5.14 | 2.73 |
| 1.70V/cell | 180.6 | 113.7 | 93.8  | 77.1  | 54.6  | 38.6  | 30.1 | 17.1 | 12.6 | 10.4 | 8.95 | 7.87 | 6.39 | 5.24 | 2.77 |
| 1.67V/cell | 184.8 | 116.9 | 95.6  | 78.9  | 55.6  | 39.3  | 30.7 | 17.5 | 12.9 | 10.6 | 9.13 | 8.00 | 6.47 | 5.30 | 2.81 |
| 1.60V/cell | 189.8 | 121.3 | 98.7  | 81.0  | 57.0  | 40.1  | 31.3 | 18.1 | 13.3 | 10.9 | 9.32 | 8.18 | 6.60 | 5.41 | 2.85 |

# TN12-26 [12V 26Ah]

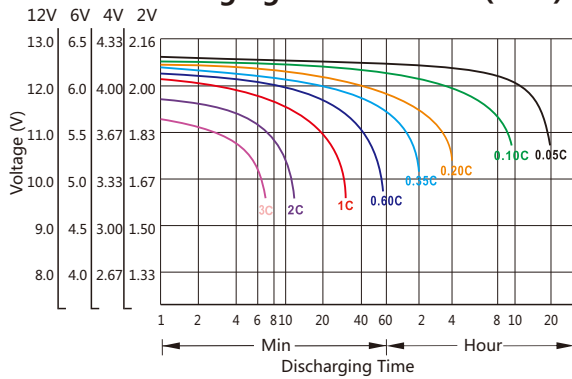


## Battery Dimensions(mm)

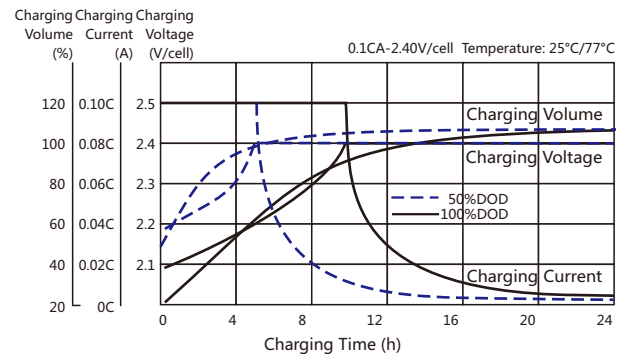


## Electrical Characteristics

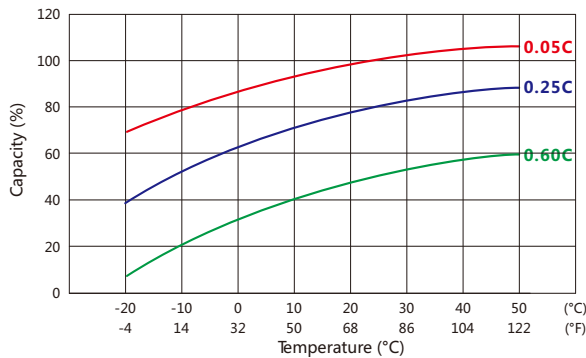
**Discharging Characteristics(25°C)**



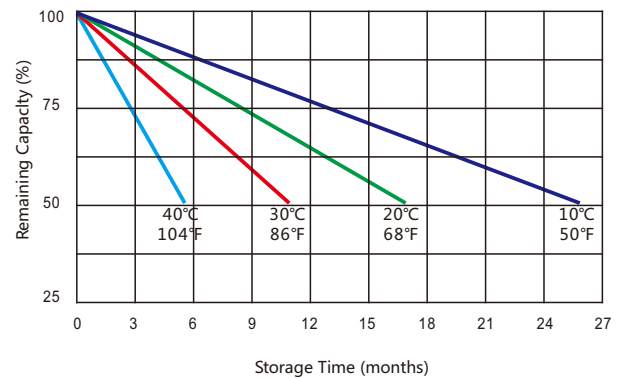
**Charging Characteristics(25°C)**



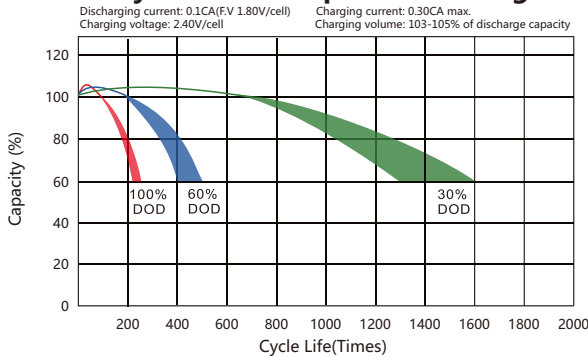
**Capacity vs Temperature**



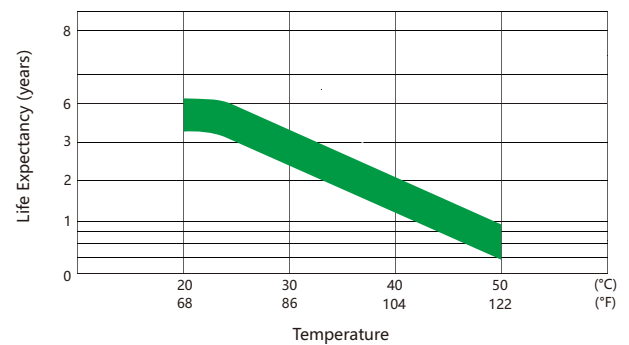
**Self-discharge vs Time**



**Cycle Life vs Depth of Discharge**



**Floating Life vs Temperature**



## Usage and Maintenance

| Charge Current                      | Equalization Charge  | Float Charge   |
|-------------------------------------|--|--|
| Limited current : $\leq 0.3C_{20}A$ | Constant Voltage: 14.4~14.7V@25°C(77°F)<br>Temp.Coefficient:-24mV/°C | Constant Voltage: 13.5~13.8V@25°C(77°F)<br>Temp.Coefficient:-18mV/°C |