

MPG12026.6 (12V26AH)

Specification

| | | |
|----------------------------------|--|-------------------------------|
| Nominal Voltage | 12V | |
| Nominal Capacity(10HR) | 26.0AH | |
| Dimension | Length | 166±1mm (6.54 inches) |
| | Width | 175±1mm (6.93 inches) |
| | Container Height | 125±1mm (4.92 inches) |
| | Total Height (with Terminal) | 125±1mm (4.92 inches) |
| Approx Weight | Approx 8.3 kg | |
| Terminal | T3 | |
| Container Material | ABS | |
| Rated Capacity | 27.6AH/1.378A | (20hr, 1.80V/cell, 25°C/77°F) |
| | 26.0AH/2.60A | (10hr, 1.80V/cell, 25°C/77°F) |
| | 22.6AH/4.51A | (5hr, 1.75V/cell, 25°C/77°F) |
| | 20.5AH/6.85A | (3hr, 1.75V/cell, 25°C/77°F) |
| | 16.0AH/16.0A | (1hr, 1.60V/cell, 25°C/77°F) |
| Max. Discharge Current | 390A (5s) | |
| Internal Resistance | Approx 12.0m Ω | |
| Operating Temp. Range | Discharge : -15~50°C (5~122°F) | |
| | Charge : 0~40°C (32~104°F) | |
| | Storage : -15~40°C (5~104°F) | |
| Nominal Operating Temp. Range | 25±3°C (77±5°F) | |
| Cycle Use | Initial Charging Current less than 7.8A. Voltage | |
| | 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C | |
| Standby Use | No limit on Initial Charging Current Voltage | |
| | 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C | |
| Capacity affected by Temperature | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| Self Discharge | Yalcin Gold series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. | |



Applications

- ◆ UPS and EPS
- ◆ Emergency light
- ◆ Railway signal and aircraft signal system
- ◆ Marine and powerstations
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply, DC power supply

Constant Current Discharge (Amperes) at 25 °C (77°F)

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|-------|
| 1.85V/cell | 33.5 | 28.0 | 23.9 | 19.5 | 14.7 | 12.4 | 7.89 | 6.25 | 5.06 | 4.09 | 3.59 | 2.87 | 2.45 | 1.365 |
| 1.80V/cell | 42.9 | 33.8 | 28.2 | 23.0 | 17.1 | 13.8 | 8.61 | 6.72 | 5.41 | 4.39 | 3.85 | 3.05 | 2.60 | 1.378 |
| 1.75V/cell | 47.1 | 36.9 | 30.3 | 23.9 | 17.8 | 14.5 | 8.93 | 6.85 | 5.54 | 4.51 | 3.96 | 3.10 | 2.63 | 1.391 |
| 1.70V/cell | 51.3 | 39.4 | 31.9 | 24.8 | 18.5 | 14.9 | 9.28 | 7.04 | 5.67 | 4.62 | 4.04 | 3.15 | 2.65 | 1.417 |
| 1.65V/cell | 55.4 | 41.9 | 33.9 | 26.2 | 19.0 | 15.4 | 9.54 | 7.34 | 5.87 | 4.75 | 4.13 | 3.20 | 2.71 | 1.435 |
| 1.60V/cell | 60.1 | 44.8 | 36.1 | 27.7 | 19.8 | 16.0 | 9.86 | 7.56 | 6.05 | 4.91 | 4.22 | 3.23 | 2.74 | 1.443 |

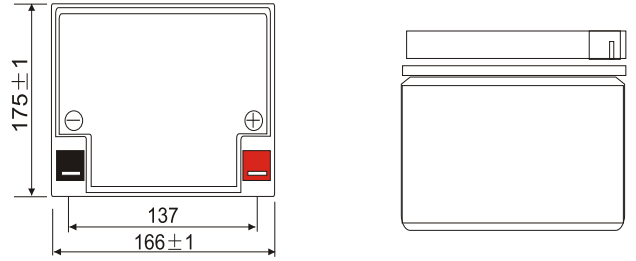
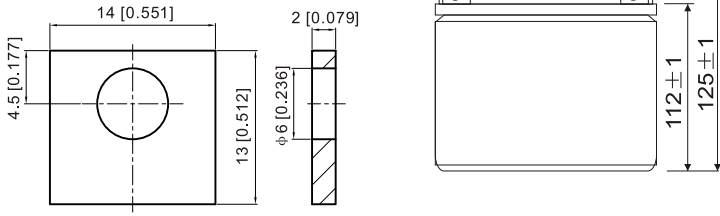
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

| F.V/Time | 10min | 15min | 20min | 30min | 45min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 63.1 | 53.2 | 45.8 | 37.8 | 28.8 | 24.3 | 15.6 | 12.4 | 10.1 | 8.17 | 7.18 | 5.77 | 4.94 | 2.75 |
| 1.80V/cell | 79.7 | 63.4 | 53.4 | 44.0 | 33.3 | 27.0 | 16.9 | 13.3 | 10.7 | 8.73 | 7.68 | 6.11 | 5.23 | 2.77 |
| 1.75V/cell | 86.2 | 68.4 | 56.9 | 45.3 | 34.2 | 28.2 | 17.5 | 13.5 | 10.9 | 8.93 | 7.86 | 6.20 | 5.27 | 2.80 |
| 1.70V/cell | 91.9 | 72.1 | 59.3 | 46.9 | 35.5 | 29.0 | 18.1 | 13.8 | 11.2 | 9.14 | 8.02 | 6.28 | 5.32 | 2.85 |
| 1.65V/cell | 98.3 | 76.1 | 62.6 | 49.0 | 36.0 | 29.7 | 18.5 | 14.3 | 11.5 | 9.36 | 8.17 | 6.37 | 5.42 | 2.88 |
| 1.60V/cell | 104.3 | 80.0 | 65.9 | 51.4 | 37.3 | 30.6 | 19.1 | 14.7 | 11.8 | 9.64 | 8.32 | 6.41 | 5.47 | 2.89 |

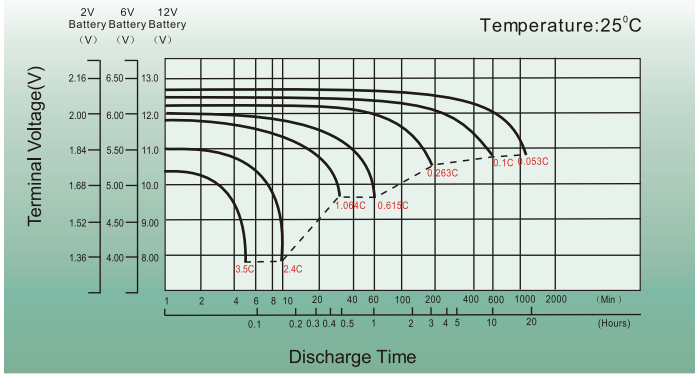
Dimensions

T3 Terminal

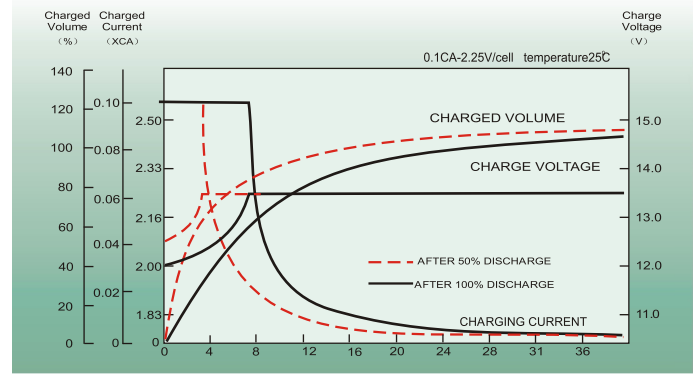
Unit: mm [inches]



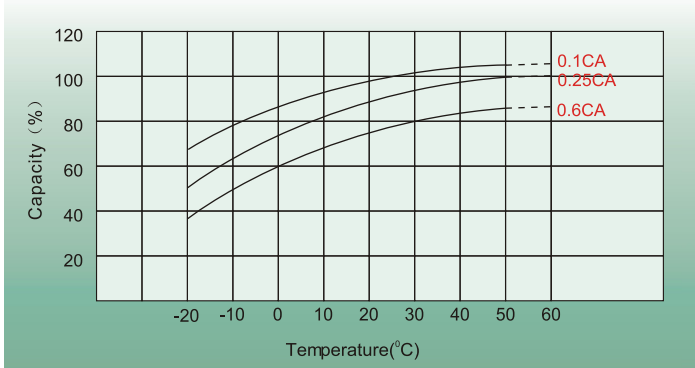
Discharge Characteristics



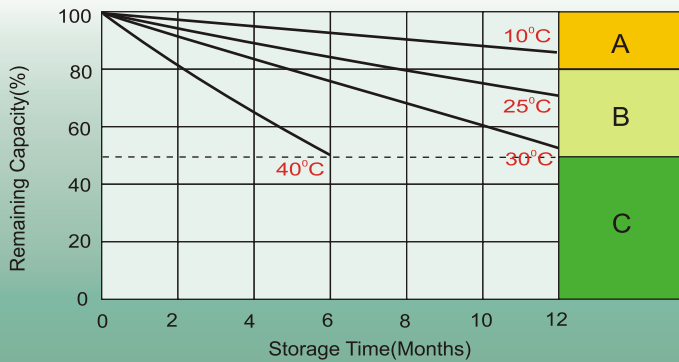
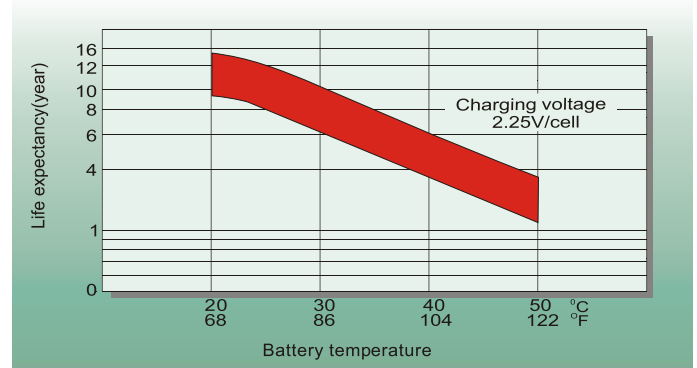
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics

- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as be low:
 1. Charged for above 3 days at limited current 0.25C A and constant voltage 2.25V /cell.
 2. Charged for above 20hours at limited current 0.25CA and constant voltage 2.45V /cell.
 3. Charged for 8-10hours at limited current 0.05C A .
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached .