

### DC Series--Small-size batteries

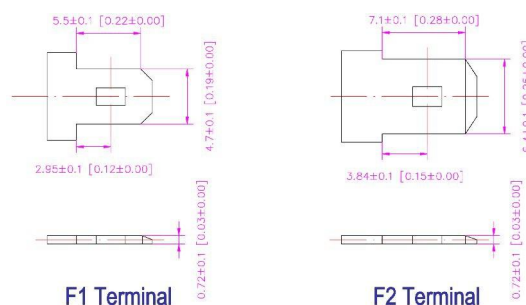
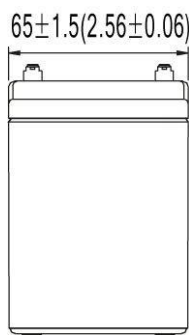
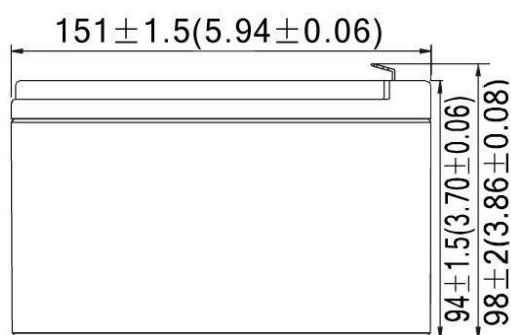
- 100% before shipment testing, stable and reliable long-term quality
- patented grid alloy formula and updated manufacturing technique
- completely sealed and maintenance-free, low self-discharge
- Excellent charging and re-charging acceptance
- Cycle use: More than 260 cycles at 100% DOD
- Floating & standby use: 3-5 years

### Application:

- Uninterruptable Power Supply(UPS)
- Electric Power System(EPS)
- Emergency backup Power Supply
- Alarm and security system
- Electronic Apparatus and equipment
- Communication Power Supply

### Construction:

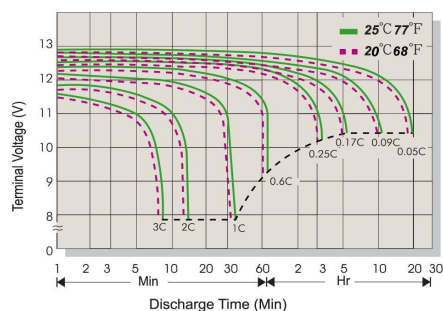
- Component.....Raw material
- Positive.....Lead dioxide
- Negative.....Lead
- Container..... ABS
- Cover.....ABS
- Sealant.....Epoxy
- Safety valve.....Rubber
- Terminal.....Copper
- Separator.....Fiber glass
- Electrolyte.....Sulfuric acid



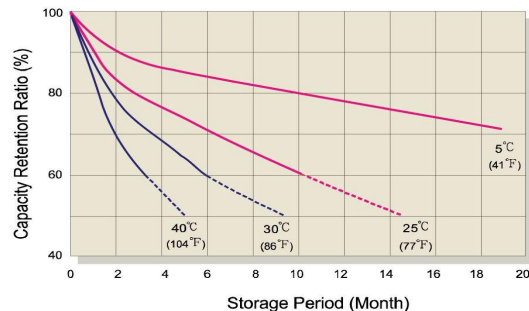
### Speification:

| Battery Model                    | GTAD 8-12 12V8.0AH                         |                    |                      |                   |
|----------------------------------|--------------------------------------------|--------------------|----------------------|-------------------|
| Designed Floating Life           | 3~5 Years                                  |                    |                      |                   |
| Capacity (25℃)                   | 20HR(0.400A,10.5V)                         | 10HR(0.758A,10.5V) | 5HR(1.360A,10.5V)    | 1HR(4.630A,10.5V) |
|                                  | 8.00 AH                                    | 7.58 AH            | 6.80 AH              | 4.63 AH           |
| Dimensions                       | Length                                     | Width              | Height               | Total Height      |
|                                  | 151 mm                                     | 65 mm              | 94 mm                | 98mm              |
| Approx. Weight                   | 2.38Kg ±3%                                 |                    |                      |                   |
| Internal Resistance              | Full charged at 25℃ : ≤26.00 mΩ            |                    |                      |                   |
| Self Discharge                   | 2% of capacity declined per month at (25℃) |                    |                      |                   |
| Capacity Affected by Temp.(20HR) | 40℃                                        | 25℃                | 0℃                   | -15℃              |
|                                  | 102%                                       | 100%               | 85%                  | 65%               |
| Charge Voltage(25oC)             | Cycle use                                  |                    | Float use            |                   |
|                                  | 14.6-15.0V(-30mV/℃), max. Current: 2.40A   |                    | 13.6-13.7V (-20mV/℃) |                   |

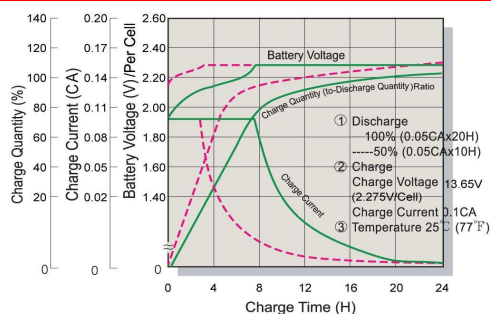
Terminal Voltage (V) and Discharge Time



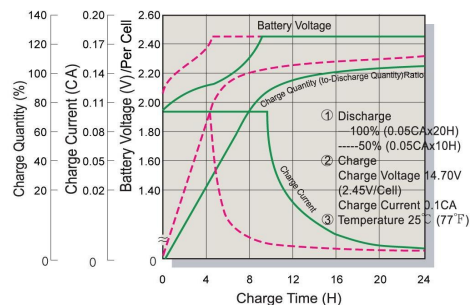
Capacity Retention Characteristic



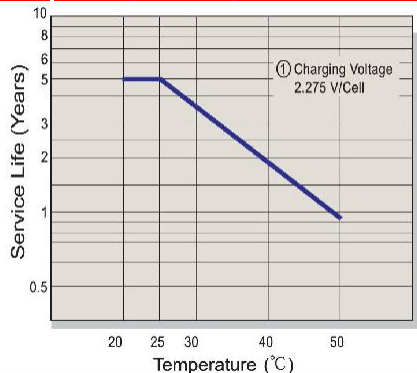
Battery Voltage and Charge Time for Standby Use



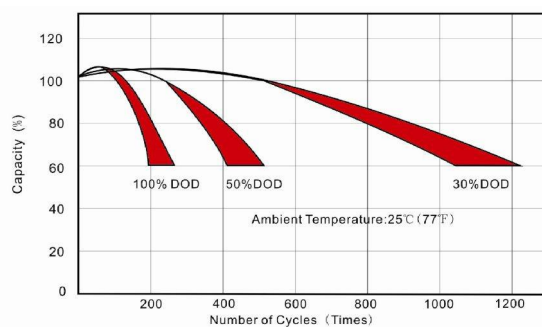
Battery Voltage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life



Constant Current Discharge(CC,Unit:A) at 25°C(77°F)

| F.V/Time   | 5Min  | 10Min | 15Min | 30Min | 1Hr  | 2Hr  | 3Hr  | 4Hr   | 5Hr   | 6Hr   | 10Hr  | 20Hr  |
|------------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|-------|
| 1.80V/Cell | 26.02 | 17.96 | 12.44 | 7.71  | 4.55 | 2.66 | 2.02 | 1.607 | 1.335 | 1.140 | 0.744 | 0.393 |
| 1.75V/Cell | 26.51 | 18.30 | 12.67 | 7.86  | 4.63 | 2.71 | 2.06 | 1.637 | 1.360 | 1.162 | 0.758 | 0.400 |
| 1.70V/Cell | 27.30 | 18.84 | 13.43 | 8.17  | 4.71 | 2.75 | 2.10 | 1.666 | 1.384 | 1.182 | 0.771 | 0.407 |
| 1.67V/Cell | 28.10 | 19.39 | 14.57 | 8.63  | 4.76 | 2.78 | 2.12 | 1.684 | 1.398 | 1.195 | 0.779 | 0.411 |
| 1.60V/Cell | 28.89 | 19.94 | 15.33 | 9.00  | 4.82 | 2.81 | 2.14 | 1.702 | 1.414 | 1.208 | 0.788 | 0.416 |

Constant Power Discharge (CP,Unit:W) at 25°C(77°F)

| F.V/Time   | 5Min  | 10Min | 15Min | 30Min | 1Hr  | 2Hr  | 3Hr  | 4Hr  | 5Hr  | 6Hr  | 10Hr | 20Hr |
|------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.80V/Cell | 50.74 | 35.02 | 24.25 | 15.04 | 8.87 | 5.18 | 3.94 | 3.13 | 2.60 | 2.22 | 1.45 | 0.77 |
| 1.75V/Cell | 51.69 | 35.68 | 24.71 | 15.32 | 9.03 | 5.28 | 4.02 | 3.19 | 2.65 | 2.27 | 1.48 | 0.78 |
| 1.70V/Cell | 53.24 | 36.75 | 26.19 | 15.94 | 9.19 | 5.37 | 4.09 | 3.25 | 2.70 | 2.31 | 1.50 | 0.79 |
| 1.67V/Cell | 54.79 | 37.82 | 28.41 | 16.83 | 9.29 | 5.43 | 4.13 | 3.28 | 2.73 | 2.33 | 1.52 | 0.80 |
| 1.60V/Cell | 56.34 | 38.89 | 29.89 | 17.55 | 9.39 | 5.49 | 4.18 | 3.32 | 2.76 | 2.36 | 1.54 | 0.81 |