

### General Series battery

UC Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, high performance plates and electrolyte to give extra power output for common power backup system.

GP Series Batteries are the general-purpose batteries with 10 years floating design life at 25°C, Meet with IEC,BS,JIS and Eurobat standard,UL(MH62092),CE approved.

### Application

- \* Emergency Power System
- \* Communication equipment
- \* Telecommunication systems
- \* Uninterruptible power supplies
- \* Electric toy car and wheelchairs, etc..
- \* Power tools
- \* Alarm system
- \* Marine equipment
- \* Medical equipment
- \* Fire and SecuritySystem

### General features

- \* Heavy Duty Grid
- \* Mechanized assembly
- \* Non-spillable construction
- \* High Reliability and Stability
- \* Sealed and Maintenance-free
- \* Long Life and low self-discharge design

### Specification

### Construction

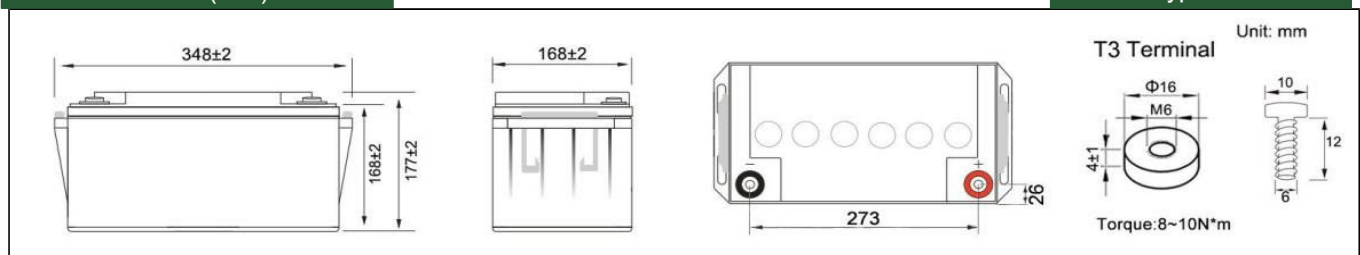
- \* Positive .....Lead dioxide
- \* Electrolyte.....Sulfuric acid
- \* Separator.....Fiber glass
- \* Container.....ABS(UL94-HB) / Flame Retardant ABS (UL94-V0)
- \* Negative.....Lead
- \* Safety Valve.....EPDR
- \* Terminal.....Copper



| Battery Model                    | Nominal Voltage                        |                           | 12V (6 cells per unit)             |                         |
|----------------------------------|----------------------------------------|---------------------------|------------------------------------|-------------------------|
|                                  | Rated capacity (10 Hour rate)          |                           | 65AH                               |                         |
| Dimension                        | Length                                 | Width                     | Height                             | Total Height            |
|                                  | 348mm (13.70 inches)                   | 168mm (6.61 inches)       | 177mm (6.97 inches)                | 177mm (6.97 inches)     |
| Aprox. Weight                    | 19.1kg (41.22lbs) ± 3%                 |                           |                                    |                         |
| Internal Resistance              | Full charged at 25 (77 ):Approx 5.78mΩ |                           |                                    |                         |
| Max. Charge Current              | 19.5A                                  |                           |                                    |                         |
| Max. Discharge                   | 650 A (5Sec.)                          |                           |                                    |                         |
| Short-circuit current            | 1140A                                  |                           |                                    |                         |
| Operating Temperature Range      | Nominal Operating Temperature          | Discharge                 | Charge                             | Storage                 |
|                                  | 25°C(77°F)                             | -15°C~ 50°C(5°F~122°F)    | -15°C~ 40°C(5°F~104°F)             | -15°C~ 40°C(5°F~104°F)  |
| Capacity @ 25 (77 )              | 10 hour rate(6.50A,10.8V)              | 5 hour rate(11.73A,10.8V) | 3 hour rate(17.70A,10.2V)          | 1 hour rate(40.0A,9.6V) |
|                                  | 65.00Ah                                | 58.65Ah                   | 53.10Ah                            | 41.10Ah                 |
| Capacity affected by Temp.(10HR) | 40°C(104°F)                            | 25°C(77°F)                | 0°C(32°F)                          | -15°C(5°F)              |
|                                  | 102%                                   | 100%                      | 85%                                | 65%                     |
| Charge method                    | Float Charging Voltage                 |                           | Equalization Charging Voltage      |                         |
|                                  | 13.5 ~ 13.8 VDC/Unit at 25°C(77°F)     |                           | 14.4 ~ 15.0 VDC/Unit at 25°C(77°F) |                         |

### Outer Dimension (mm)

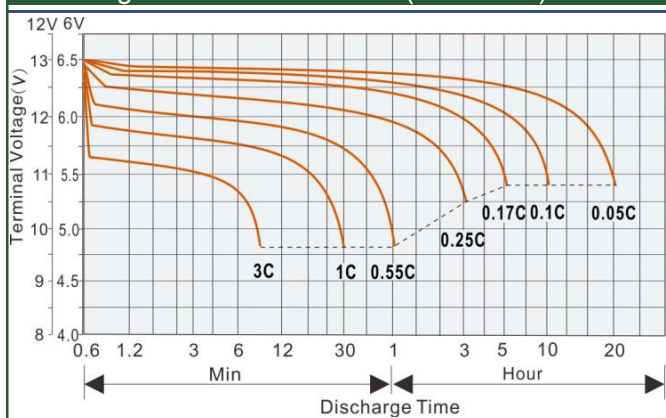
### Terminal type



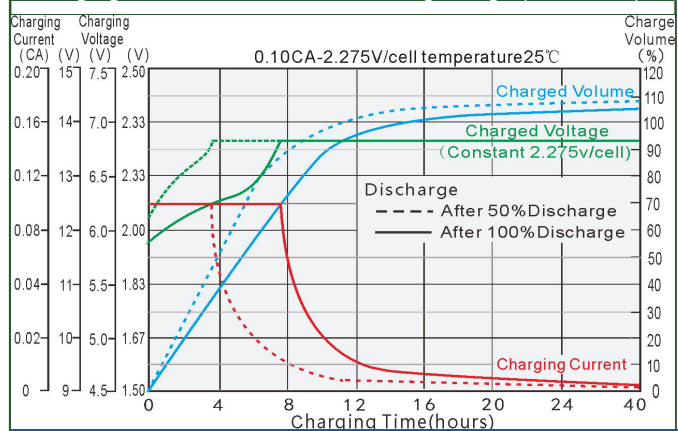
### Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

| F.V/Time   |   | 5min | 10min | 15min | 20min | 30min | 1h   | 2h   | 3h    | 5h    | 8h    | 10h   | 20h  |
|------------|---|------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|------|
| 1.85V/cell | A | 195  | 138   | 94.0  | 76.1  | 60.6  | 35.9 | 22.4 | 16.71 | 11.32 | 7.80  | 6.41  | 3.42 |
|            | W | 358  | 255   | 175   | 144.6 | 116.6 | 69.9 | 43.6 | 32.62 | 22.25 | 15.54 | 12.79 | 6.88 |
| 1.80V/cell | A | 207  | 147   | 101   | 80.4  | 63.0  | 37.2 | 23.2 | 17.05 | 11.53 | 7.90  | 6.50  | 3.48 |
|            | W | 375  | 268   | 186   | 151.3 | 120.0 | 71.5 | 44.5 | 33.00 | 22.52 | 15.70 | 12.92 | 6.95 |
| 1.75V/cell | A | 218  | 155   | 107   | 84.6  | 65.3  | 38.4 | 23.9 | 17.38 | 11.73 | 8.00  | 6.59  | 3.53 |
|            | W | 391  | 280   | 196   | 157.9 | 123.3 | 73.0 | 45.3 | 33.37 | 22.78 | 15.87 | 13.04 | 7.01 |
| 1.70V/cell | A | 228  | 162   | 112   | 88.7  | 67.5  | 39.5 | 24.5 | 17.70 | 11.92 | 8.09  | 6.67  | 3.57 |
|            | W | 406  | 291   | 205   | 164.4 | 126.4 | 74.4 | 46.1 | 33.73 | 23.03 | 16.02 | 13.15 | 7.06 |
| 1.67V/cell | A | 234  | 166   | 114   | 90.6  | 68.5  | 40.1 | 24.7 | 17.83 | 12.00 | 8.13  | 6.70  | 3.59 |
|            | W | 413  | 297   | 209   | 167.4 | 127.8 | 75.1 | 46.5 | 33.91 | 23.15 | 16.08 | 13.19 | 7.09 |
| 1.60V/cell | A | 245  | 175   | 118   | 94.5  | 70.5  | 41.1 | 25.1 | 18.10 | 12.12 | 8.18  | 6.76  | 3.62 |
|            | W | 430  | 310   | 220   | 173.9 | 130.9 | 76.5 | 47.1 | 34.20 | 23.34 | 16.16 | 13.29 | 7.13 |

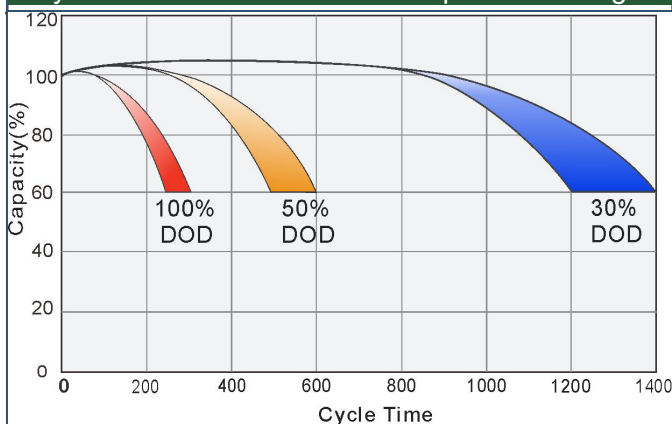
Discharge characteristic curve (25°C/77°F)



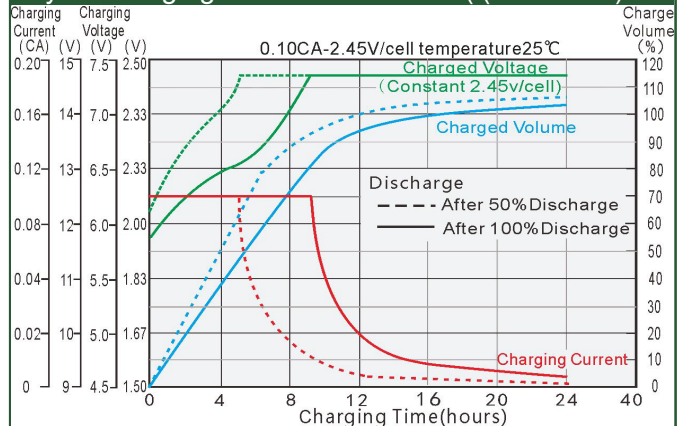
Charging characteristic curve of floating charge (25°C/77°F)



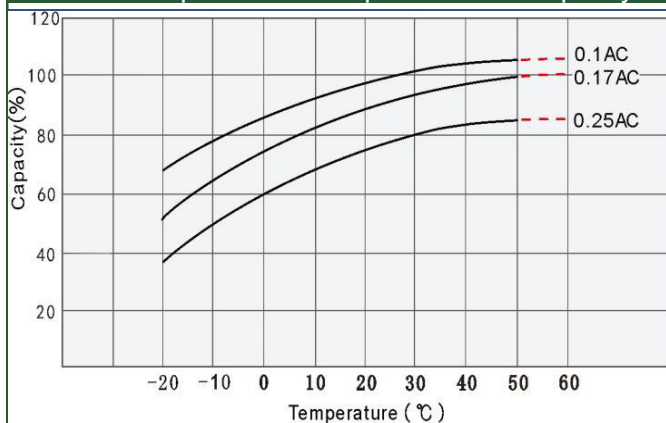
Cycle service life in relation to depth of discharge



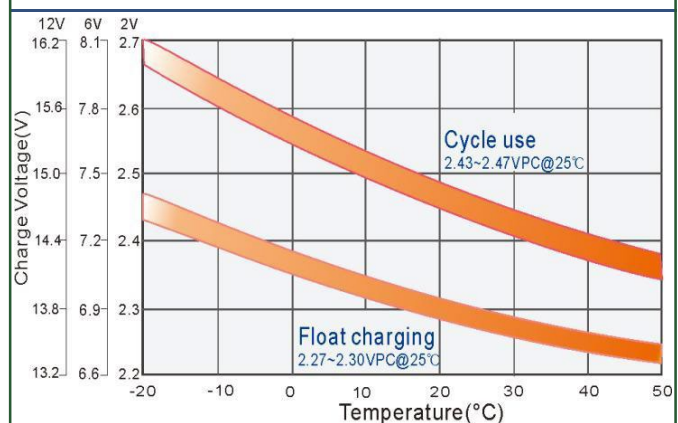
Cyclic charging characteristic curve (25°C/77°F)



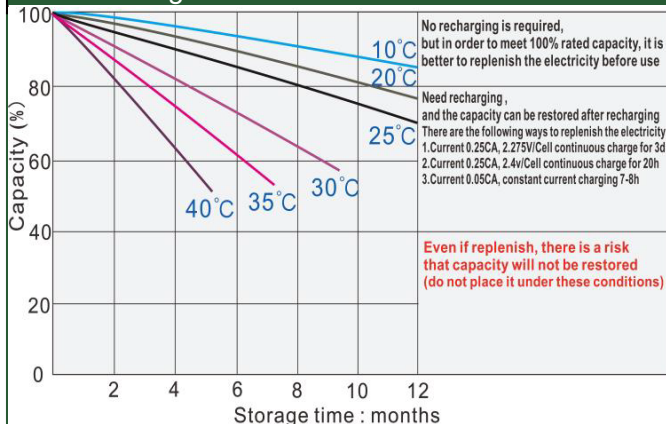
Relationship between temperature and capacity



Relationship between charging voltage and temperature



Self discharge characteristics



Temperature vs Float Life

