

### Deep Cycle Series Battery

DC series VRLA batteries are superior deep cycle design with thick plates, high-density active materials And Slightly stronger electrolyte, Which can withstand repeated deep cyclic applications. Deep cycle series Batteries are the special design 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
- \* Golf cars and buggies
- \* Marine equipment
- \* Medical equipment
- \* Solar and wind power system
- \* Generator



### General Features

- \* Safety Sealing
- \* Non-spillable construction
- \* High power density
- \* Excellent recovery from Deep discharge
- \* Thick plates and high active materials
- \* Longer Life and low self-discharge design

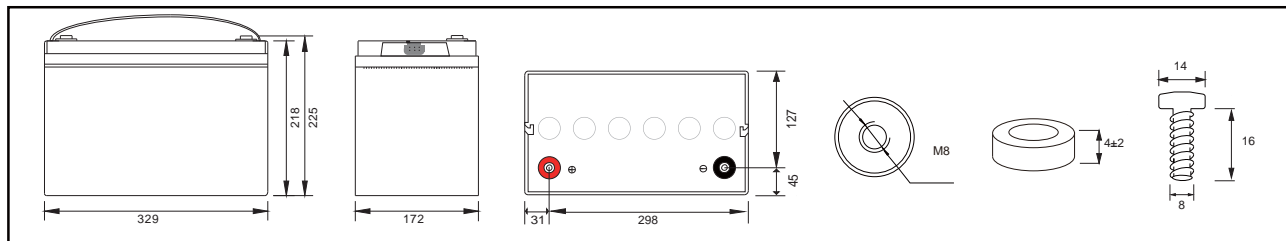
### Construction

- \* 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

### Specification

|                                   |   |                           |                           |                         |
|-----------------------------------|---|---------------------------|---------------------------|-------------------------|
| Battery Model                     | Nominal Voltage                                       |                           | 12V                       |                         |
|                                   | Rated capacity (10 Hour rate)                         |                           | 100Ah                     |                         |
|                                   | Cells Per battery                                     |                           | 6                         |                         |
| Dimension                         | Length  | Width                     | Height                    | Total Height            |
|                                   | 329mm (12.79 inches)                                  | 172mm (6.77 inches)       | 218mm (8.58 inches)       | 225mm (8.85 inches)     |
| Approx Weight                     | 28.6kg (63.05lbs) ± 3%                                |                           |                           |                         |
| Capacity @ 25°C (77°F)            | 10 hour rate(10A,10.5V)                               | 5 hour rate(17.93A,10.5V) | 3 hour rate(26.06A,10.8V) | 1 hour rate(56.1A,9.6V) |
|                                   | 100Ah   | 89.65Ah                   | 78.18Ah                   | 56.1Ah                  |
| Max.discharge current             | 1000A (5 Sec.)  |                           |                           |                         |
| Internal Resistance               | Full charged at 25°C: Approx 3.8mΩ                    |                           |                           |                         |
| Capacity affected by Temp.(10 HR) | 40°C (104°F)  | 25°C (77°F)               | 0°C (32°F)                | -15°C (5°F)             |
|                                   | 102%  | 100%                      | 85%                       | 65%                     |
| Self Discharge @25°C (77°F)       | After 3 months storage                                |                           | After 6 months storage    | After 12 months storage |
|                                   | 91%   |                           | 82%                       | 64%                     |
| Charge method @25°C (77°F)        | Cycle Use   |                           | Float Use                 |                         |
|                                   | 14.40-14.70V (Initial charging current less than 30A) |                           | 13.50-13.80V              |                         |

### Outer dimension (mm)



### Terminal Type (mm)

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

| FV/time | 15MIN   | 30MIN   | 60MIN   | 90MIN  | 2HR    | 3HR    | 5HR    | 8HR    | 10HR   | 20HR   |
|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 1.60V   | 179.800 | 107.400 | 56.100  | 41.059 | 37.302 | 26.572 | 18.134 | 12.742 | 10.376 | 5.846  |
|         | 347.014 | 213.941 | 111.920 | 81.982 | 74.636 | 53.165 | 36.282 | 25.494 | 20.761 | 11.697 |
| 1.67V   | 170.460 | 105.105 | 55.693  | 40.652 | 37.117 | 26.432 | 18.034 | 12.634 | 10.215 | 5.554  |
|         | 329.244 | 209.475 | 111.116 | 81.191 | 74.326 | 52.982 | 36.148 | 25.332 | 20.481 | 11.135 |
| 1.70V   | 166.257 | 104.187 | 55.287  | 40.612 | 37.024 | 26.365 | 18.029 | 12.508 | 10.086 | 5.406  |
|         | 321.374 | 207.652 | 110.438 | 81.142 | 74.171 | 52.863 | 36.149 | 25.091 | 20.233 | 10.844 |
| 1.75V   | 159.251 | 102.351 | 54.474  | 40.083 | 36.791 | 26.200 | 17.934 | 12.473 | 10.000 | 5.320  |
|         | 308.152 | 204.141 | 109.083 | 80.166 | 73.693 | 52.557 | 35.975 | 25.040 | 20.075 | 10.680 |
| 1.80V   | 152.713 | 100.056 | 54.067  | 39.798 | 36.559 | 26.061 | 17.884 | 12.366 | 9.839  | 5.145  |
|         | 295.958 | 199.654 | 108.406 | 79.796 | 73.242 | 52.304 | 35.893 | 24.842 | 19.766 | 10.336 |
| 1.85V   | 144.774 | 97.303  | 53.254  | 39.351 | 36.234 | 25.828 | 17.784 | 12.204 | 9.677  | 4.969  |
|         | 280.862 | 194.299 | 106.935 | 79.096 | 72.623 | 51.889 | 35.728 | 24.543 | 19.461 | 9.993  |

