

## **Specification**

| Cells Per Unit                     | 6   |
|------------------------------------|---|
| Voltage Per Unit                   | 12  |
| Nominal Capacity                   | 18Ah@20hour-rate to 1.75V per cell @25°C  |
| Weight                             | Approx. 5.00 Kg (Tolerance±5.0%)  |
| Internal Resistance                | Approx. 16 mΩ   |
| Terminal                           | F13-BP(M5)/F3(M5)   |
| Max. Discharge Current             | 180A (5 sec)  |
| Short Circuit Current              | 750A  |
| Design Life                        | 6~8 years (Float charging)  |
| Max. Charging Current              | 5.4 A   |
| Reference Capacity                 | C3 13.9AH<br>C5 15.7AH<br>C10 16.8AH<br>C20 18.0AH  |
| Standby Use Voltage                | 13.7 V~13.9 V @ 25°C<br>Temperature Compensation: -3mV/°C/Cell  |
| Cycle Use Voltage                  | 14.6 V~14.8 V @ 25°C<br>Temperature Compensation: -4mV/°C/Cell  |
| Operating Temperature Range        | Discharge: -20°C~60°C<br>Charge: 0°C~50°C<br>Storage: -20°C~60°C  |
| Normal Operating Temperature Range | 25°C±5°C  |
| Self Discharge                     | RITAR Valve Regulated Lead Acid (VRLA) batteries can<br>be stored for up to 6 months at 25°C and then recharging<br>is recommended. Monthly Self-discharge ratio is less<br>than 3% at 25°C.Please charge batteries before using. |
| Container Material                 | A.B.S. UL94-HB, UL94-V0 Optional.   |

RT series is a general purpose battery with 6~8 years design life in float service. It meets with IEC, JIS, BS ,GB/T and YD/T standards. With advanced AGM valve regulated technology and high purity raw material, the RT series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security system applications.







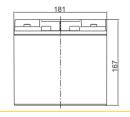
ISO 9001

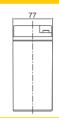
ISO 14001

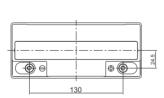
**OHSAS 18001** 



## **Dimensions**









F13-BP TERMINAL

| Length       | 181±2mm (7.13 inches) |  |  |  |  |  |  |
|--------------|-----------------------|--|--|--|--|--|--|
| Width        | 77±2mm (3.03 inches)  |  |  |  |  |  |  |
| Height       | 167±2mm (6.57 inches) |  |  |  |  |  |  |
| Total Height | 167±2mm (6.57 inches) |  |  |  |  |  |  |
| Terminal     | Value                 |  |  |  |  |  |  |
|              | valuo                 |  |  |  |  |  |  |
| M5           | 6~7 N*m               |  |  |  |  |  |  |
| M5<br>M6     |                       |  |  |  |  |  |  |

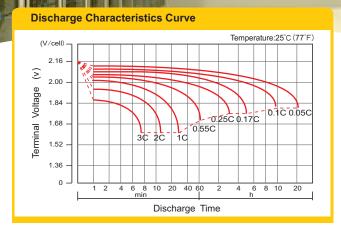
Unit: mm

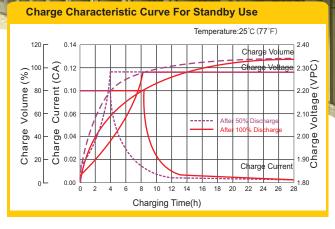
| Constant Current Discharge Characteristics : A (25°C) |       |       |       |       |       |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| F.V/Time  | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 2HR   | 3HR   | 4HR   | 5HR   | 8HR   | 10HR  | 20HR  |
| 1.60V   | 68.29 | 48.27 | 34.89 | 20.04 | 11.00 | 6.752 | 5.076 | 4.098 | 3.395 | 2.185 | 1.775 | 0.937 |
| 1.65V   | 63.51 | 45.61 | 33.36 | 19.24 | 10.62 | 6.537 | 4.919 | 3.987 | 3.307 | 2.161 | 1.753 | 0.922 |
| 1.70V   | 57.30 | 41.99 | 31.24 | 18.39 | 10.27 | 6.321 | 4.786 | 3.879 | 3.221 | 2.127 | 1.727 | 0.911 |
| 1.75V   | 51.34 | 38.43 | 29.07 | 17.58 | 9.899 | 6.101 | 4.643 | 3.779 | 3.140 | 2.098 | 1.704 | 0.900 |
| 1.80V   | 45.08 | 34.79 | 26.85 | 16.80 | 9.521 | 5.882 | 4.499 | 3.671 | 3.059 | 2.062 | 1.682 | 0.891 |
| 1.85V   | 35.78 | 28.43 | 22.28 | 14.47 | 8.539 | 5.390 | 4.159 | 3.412 | 2.853 | 1.936 | 1.584 | 0.846 |

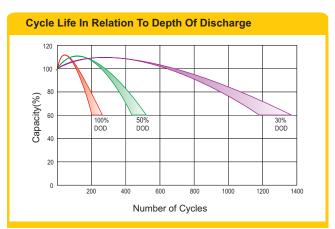
| Constant I | Constant Power Discharge Characteristics : WPC (25°C) |       |       |       |       |       |       |       |       |       |       |       |
|------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| F.V/Time   | 5MIN  | 10MIN | 15MIN | 30MIN | 1HR   | 2HR   | 3HR   | 4HR   | 5HR   | 8HR   | 10HR  | 20HR  |
| 1.60V      | 113.2   | 82.04 | 61.00 | 36.40 | 20.67 | 12.80 | 9.695 | 7.868 | 6.545 | 4.268 | 3.489 | 1.845 |
| 1.65V      | 106.5   | 79.02 | 59.18 | 35.31 | 20.07 | 12.45 | 9.435 | 7.683 | 6.399 | 4.229 | 3.451 | 1.819 |
| 1.70V      | 98.27   | 74.08 | 56.26 | 34.09 | 19.54 | 12.11 | 9.220 | 7.503 | 6.254 | 4.173 | 3.404 | 1.799 |
| 1.75V      | 90.00   | 69.04 | 53.11 | 32.92 | 18.94 | 11.74 | 8.983 | 7.338 | 6.118 | 4.123 | 3.363 | 1.779 |
| 1.80V      | 80.71   | 63.58 | 49.73 | 31.78 | 18.32 | 11.37 | 8.739 | 7.153 | 5.981 | 4.062 | 3.324 | 1.764 |
| 1.85V      | 65.41   | 52.89 | 41.86 | 27.64 | 16.53 | 10.48 | 8.115 | 6.674 | 5.596 | 3.823 | 3.134 | 1.677 |

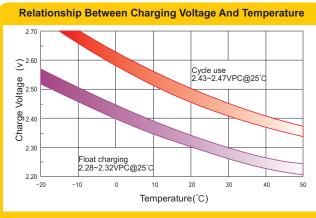
## RT12180(12V18AH

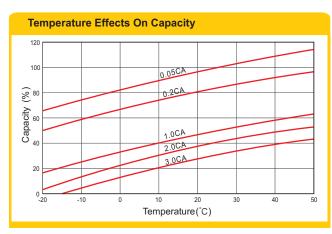


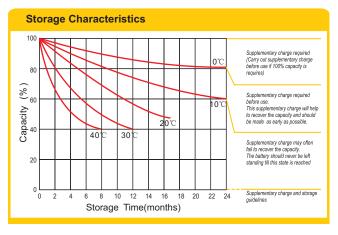


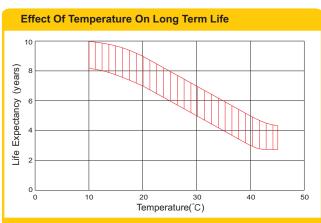


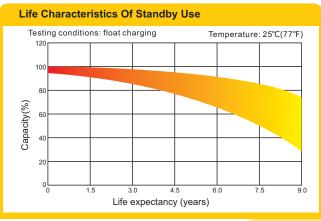












(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain and update the latest information.