



RL2-1800(2V1800Ah)

Specification

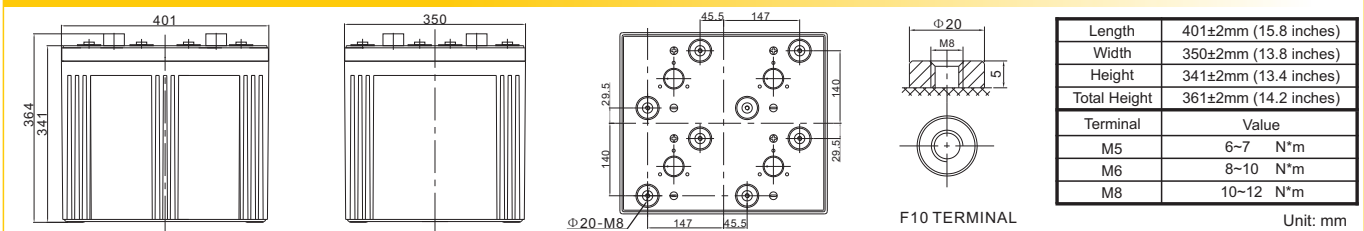
| | |
|--------------------------------------|---|
| Cells Per Unit | 1 |
| Voltage Per Unit | 2 |
| Nominal Capacity | 1800Ah@10hour-rate to 1.80V per cell @25°C |
| Weight | Approx. 105.0 Kg (Tolerance ± 1%) |
| Internal Resistance | Approx. 0.5 mΩ |
| Terminal | F10(M8) |
| Max. Discharge Current | 7000A (5 sec) |
| Short Circuit Current | 10200A |
| Design Life | 20 years (Float charging) |
| Recommended Maximum Charging Current | 360 A |
| Reference Capacity | C1 848.2AH C3 1163.1AH C5 1312.5AH C10 1500.0AH |
| Standby Use Voltage | 2.27 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell |
| Cycle Use Voltage | 2.43 V~2.47 V @ 25°C Temperature Compensation: -4mV/°C/Cell |
| Operating Temperature Range | Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C |
| Normal Operating Temperature Range | 25°C±5°C |
| Self Discharge | RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using. |
| Container Material | A.B.S. UL94-HB, UL94-V0 Optional. |



RL series is a general purpose battery with 20 years design life in float service. It meets with heavy duty grids, thicker plates, special additives and advanced AGM valve regulated technology, the RL series battery provides consistent performance and long service life. The new grid design effectively reduces the internal resistance, which provides higher specific energy density and excellent high rate discharge characteristics. It is suitable for communications back-up power and EPS/UPS applications.



Dimensions



Constant Current Discharge Characteristics : A (25°C)

| F. V/Time | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V | 1759 | 1101 | 665.8 | 492.0 | 396.5 | 330.6 | 228.0 | 191.8 | 100.7 |
| 1.65V | 1720 | 1080 | 656.1 | 485.5 | 391.5 | 326.8 | 225.8 | 190.0 | 99.7 |
| 1.70V | 1669 | 1053 | 643.1 | 476.8 | 385.0 | 321.7 | 222.7 | 187.5 | 98.5 |
| 1.75V | 1602 | 1018 | 625.9 | 465.2 | 376.3 | 315.0 | 218.6 | 184.3 | 96.8 |
| 1.80V | 1515 | 971.5 | 603.4 | 450.0 | 364.8 | 306.0 | 213.2 | 180.0 | 94.5 |
| 1.85V | 1405 | 911.8 | 574.1 | 430.1 | 349.8 | 294.3 | 206.1 | 174.4 | 91.5 |

Constant Power Discharge Characteristics : WPC (25°C)

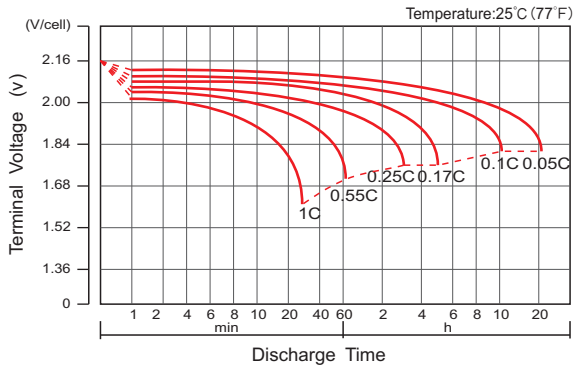
| F. V/Time | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|-----------|-------|------|------|-------|-------|-------|-------|-------|-------|
| 1.60V | 3288 | 2086 | 1272 | 944.6 | 764.2 | 645.7 | 448.3 | 377.6 | 198.2 |
| 1.65V | 3250 | 2063 | 1261 | 937.0 | 758.6 | 640.2 | 444.7 | 374.7 | 196.7 |
| 1.70V | 3164 | 2017 | 1239 | 922.2 | 747.4 | 631.1 | 438.9 | 370.3 | 194.4 |
| 1.75V | 3053 | 1958 | 1211 | 903.3 | 733.1 | 619.0 | 431.4 | 364.3 | 191.3 |
| 1.80V | 2902 | 1879 | 1172 | 876.9 | 713.2 | 602.8 | 421.2 | 356.3 | 187.0 |
| 1.85V | 2709 | 1773 | 1120 | 841.4 | 686.1 | 581.1 | 407.8 | 345.6 | 181.4 |

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

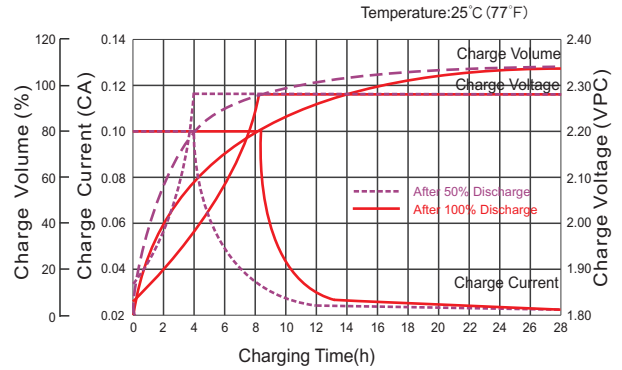
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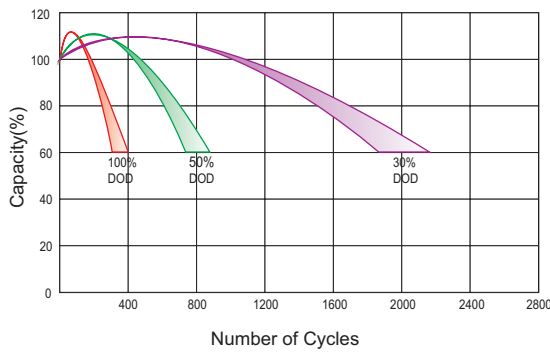
Discharge Characteristics Curve



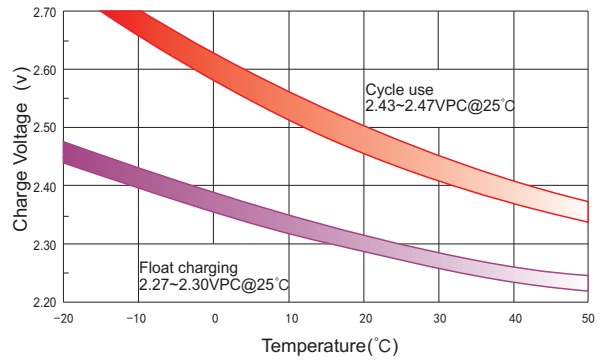
Charge Characteristic Curve For Standby Use



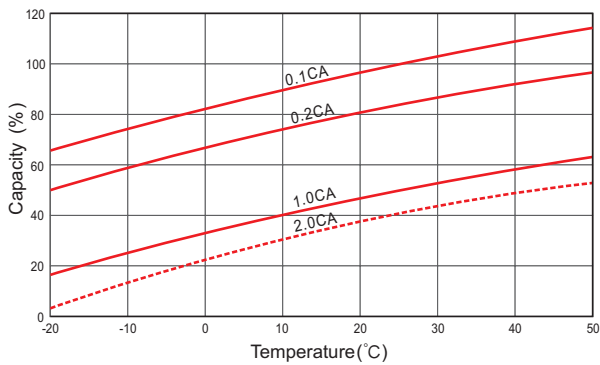
Cycle Life In Relation To Depth Of Discharge



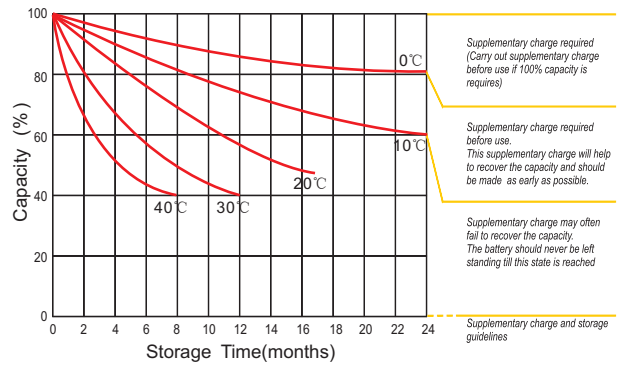
Relationship Between Charging Voltage And Temperature



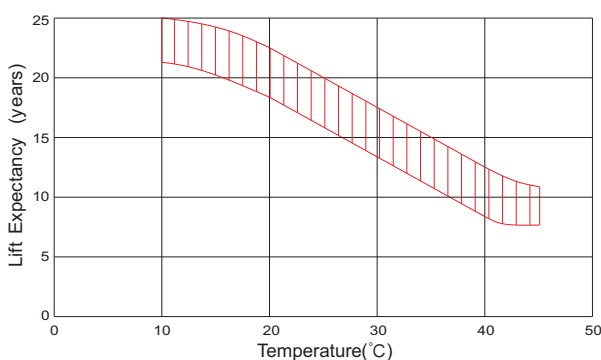
Temperature Effects On Capacity



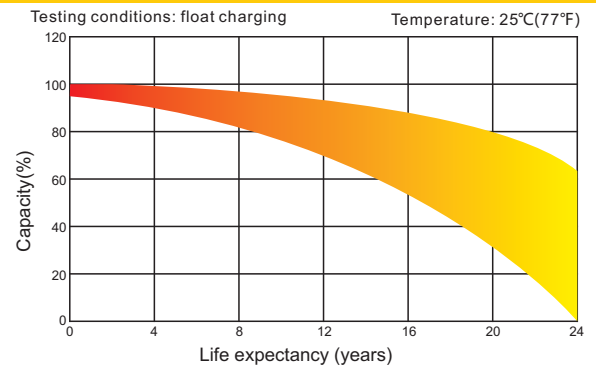
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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