



RL2-2000(2V2000Ah)

Specification

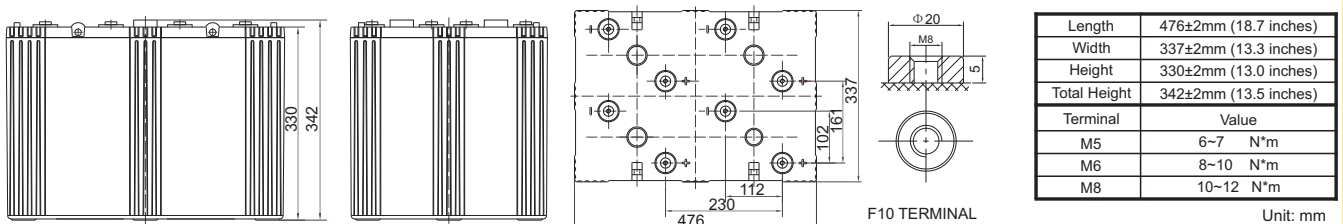
Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	2000Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 116.5 Kg (Tolerance±3.0%)
Internal Resistance	Approx. 0.35 mΩ
Terminal	F10(M8)
Max. Discharge Current	7000A (5 sec)
Short Circuit Current	13380A
Design Life	20 years (Float charging)
Max. Charging Current	400 A
Reference Capacity	C1 1100.0AH C3 1548.0AH C5 1745.0AH C10 2000.0AH
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 be stored for up to 6 months at 25°C and then recharging 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
1.60V	1934	1222	752.5	564.1	454.1	377.3	253.6	211.0
1.65V	1857	1180	728.5	546.7	441.8	367.5	250.7	208.4
1.70V	1775	1142	704.5	531.8	429.8	358.0	246.9	205.3
1.75V	1696	1100	679.9	516.0	418.8	349.0	243.5	202.6
1.80V	1622	1058	655.6	500.0	406.7	340.0	239.3	200.0
1.85V	1397	948.8	600.7	462.2	378.1	317.0	224.7	188.3

Constant Power Discharge Characteristics : WPC (25°C)

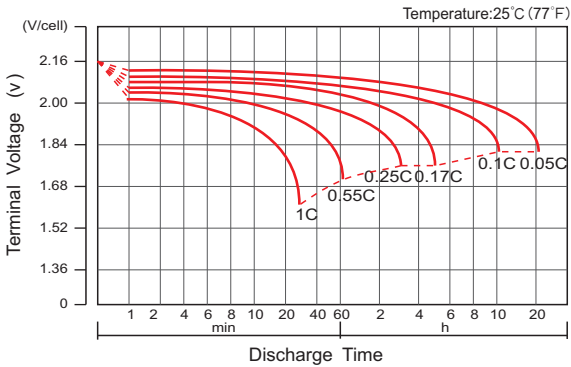
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	3513	2296	1426	1077	871.8	727.3	495.2	414.8
1.65V	3408	2230	1387	1049	851.3	711.1	490.7	410.3
1.70V	3290	2171	1349	1025	831.3	695.0	484.2	404.6
1.75V	3177	2105	1308	998.2	813.1	679.9	478.5	399.8
1.80V	3068	2036	1268	971.2	792.6	664.7	471.4	395.2
1.85V	2668	1837	1168	901.8	739.5	621.9	443.6	372.6

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C10 should reach 95% after the first cycle and 100% after the third cycle.

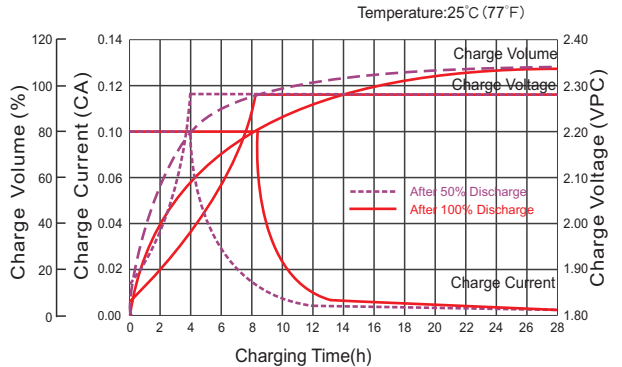
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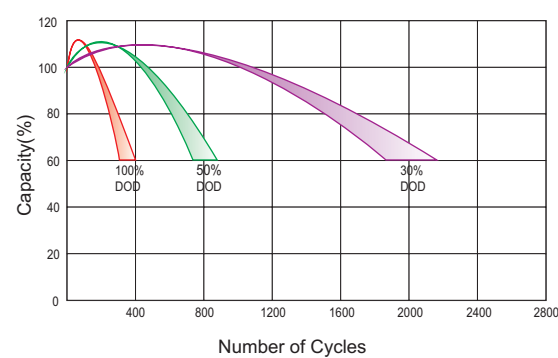
Discharge Characteristics Curve



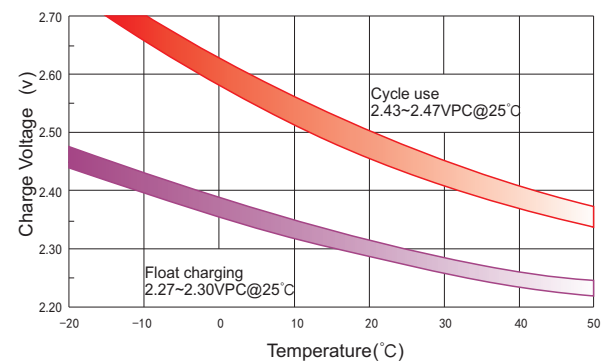
Charge Characteristic Curve For Standby Use



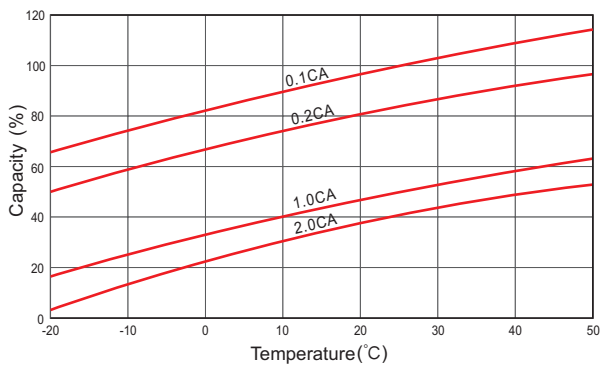
Cycle Life In Relation To Depth Of Discharge



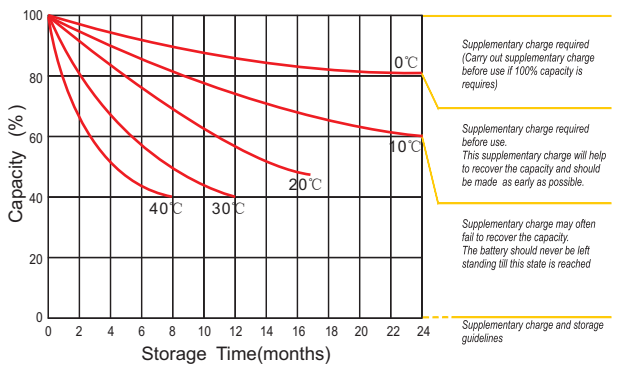
Relationship Between Charging Voltage And Temperature



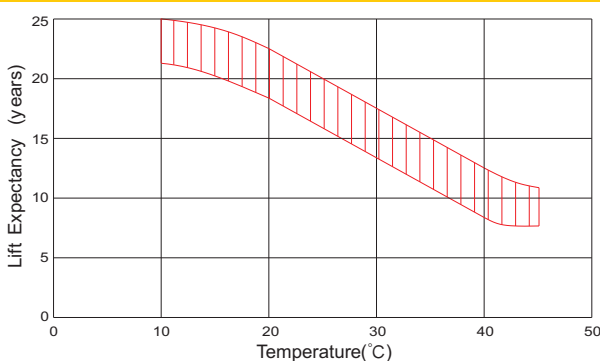
Temperature Effects On Capacity



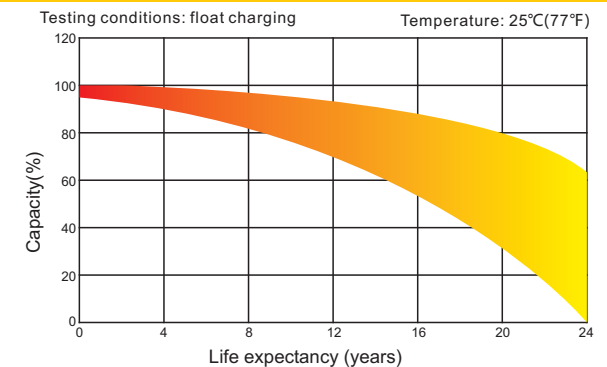
Storage Characteristics



Effect Of Temperature On Long Term Life



Charge Characteristic Curve For Standby Use



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

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