



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. 120 Kg (Tolerance ± 1%)
Internal Resistance	Approx. 0.4 mΩ
Terminal	F10(M8)
Max. Discharge Current	7000A (5 sec)
Short Circuit Current	13380A
Design Life	20 years (Float charging)
Recommended Maximum Charging Current	400 A
Reference Capacity	C1 1131AH C3 1550.7AH C5 1750.0AH 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 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

Length	490±2mm (19.3 inches)
Width	350±2mm (13.8 inches)
Height	341±2mm (13.4 inches)
Total Height	364±2mm (14.3 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

Constant Current Discharge Characteristics : A (25°C)

F. V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	1954	1223	739.8	546.7	440.5	367.4	253.4	213.1	111.9
1.65V	1911	1200	728.9	539.4	435.0	363.1	250.8	211.1	110.8
1.70V	1854	1170	714.5	529.8	427.8	357.5	247.4	208.4	109.4
1.75V	1780	1131	695.5	516.9	418.1	350.0	242.9	204.8	107.5
1.80V	1684	1079	670.5	500.0	405.3	340.0	236.9	200.0	105.0
1.85V	1561	1013	637.9	477.9	388.6	327.0	229.0	193.7	101.7

Constant Power Discharge Characteristics : WPC (25°C)

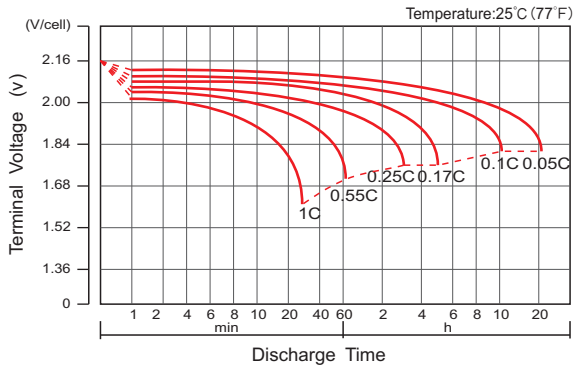
F. V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	3654	2318	1413	1050	849.1	717.5	498.1	419.5	220.3
1.65V	3611	2292	1401	1041	842.9	711.4	494.1	416.3	218.6
1.70V	3516	2241	1377	1025	830.5	701.2	487.7	411.4	216.0
1.75V	3392	2176	1346	1004	814.5	687.8	479.3	404.8	212.5
1.80V	3224	2087	1302	974.3	792.5	669.8	468.0	395.9	207.8
1.85V	3010	1970	1244	934.9	762.3	645.6	453.1	384.0	201.6

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

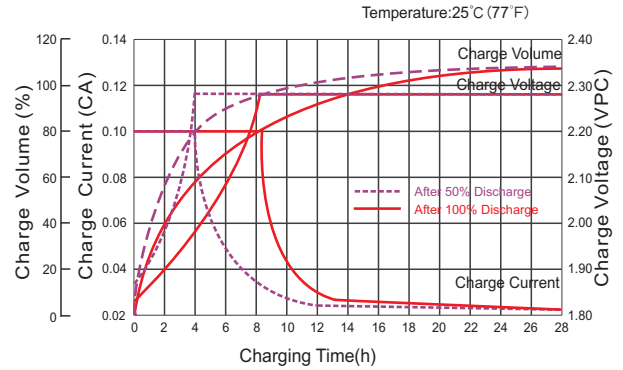
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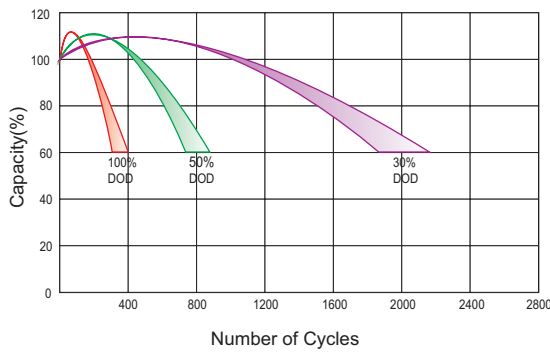
Discharge Characteristics Curve



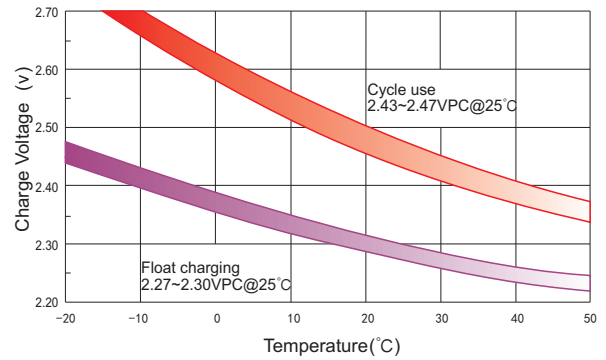
Charge Characteristic Curve For Standby Use



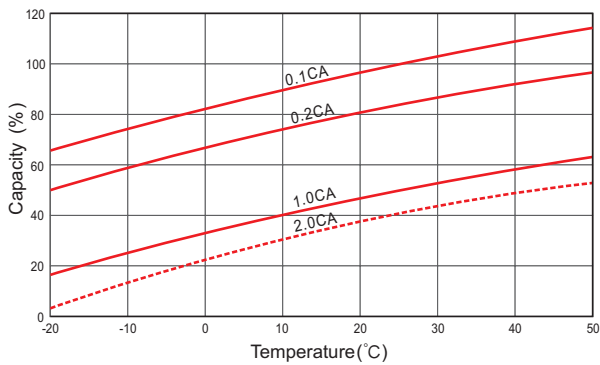
Cycle Life In Relation To Depth Of Discharge



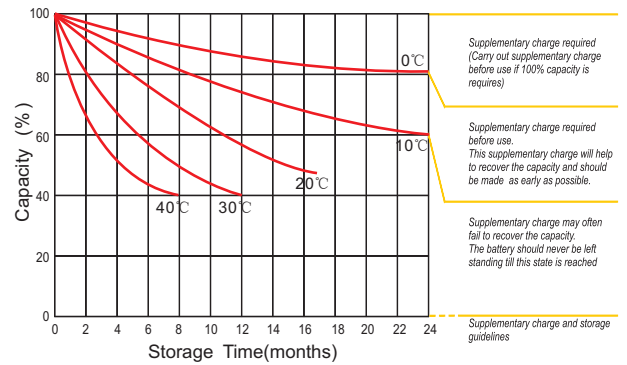
Relationship Between Charging Voltage And Temperature



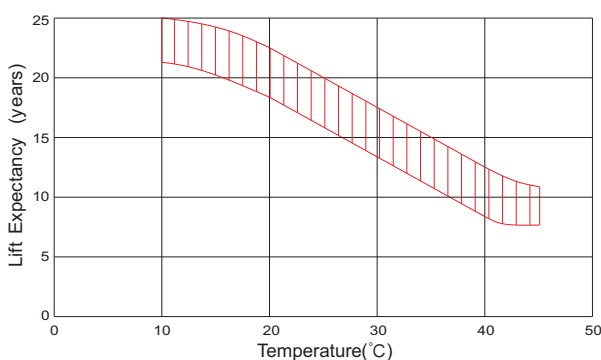
Temperature Effects On Capacity



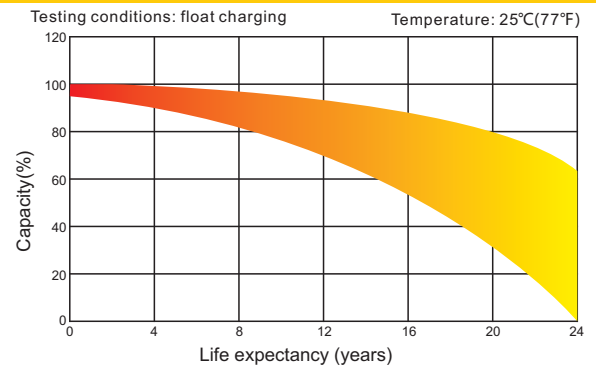
Storage Characteristics



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.