



RL2-800(2V800Ah)

Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	800Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 50.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 0.6 mΩ
Terminal	F10(M8)
Max. Discharge Current	3200A (5 sec)
Short Circuit Current	6370A
Design Life	20 years (Float charging)
Recommended Maximum Charging Current	160 A
Reference Capacity	C1 494.2AH C3 620.4AH C5 700.0AH C10 800.0AH
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	409±2mm (16.1 inches)
Width	175±2mm (6.89 inches)
Height	330±2mm (13.0 inches)
Total Height	353±2mm (13.9 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	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	1256	789.5	494.2	298.9	218.7	176.2	146.9	101.4	85.2
1.65V	1223	772.1	485.0	294.5	215.8	174.0	145.3	100.3	84.4
1.70V	1180	749.2	472.9	288.7	211.9	171.1	143.0	99.0	83.3
1.75V	1123	719.2	457.0	281.0	206.8	167.2	140.0	97.2	81.9
1.80V	1051	680.3	436.1	270.9	200.0	162.1	136.0	94.8	80.0
1.85V	959.3	630.7	409.3	257.7	191.2	155.5	130.8	91.6	77.5

Constant Power Discharge Characteristics : WPC (25°C)

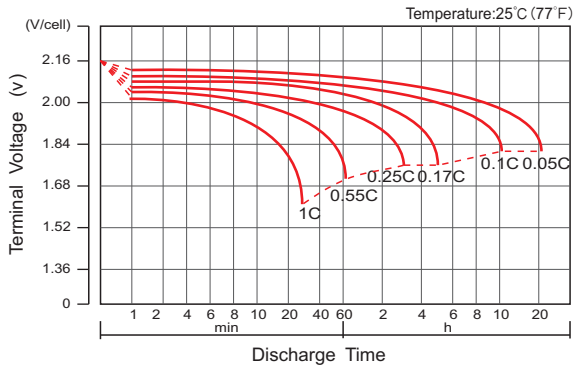
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	2281	1476	936.6	570.9	419.8	339.7	287.0	199.2	167.8
1.65V	2254	1459	926.0	566.0	416.5	337.2	284.5	197.6	166.5
1.70V	2187	1421	905.6	556.2	409.9	332.2	280.5	195.1	164.6
1.75V	2104	1371	879.1	543.7	401.5	325.8	275.1	191.7	161.9
1.80V	1988	1303	843.3	526.2	389.7	317.0	267.9	187.2	158.3
1.85V	1833	1216	795.8	502.8	373.9	304.9	258.3	181.2	153.6

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

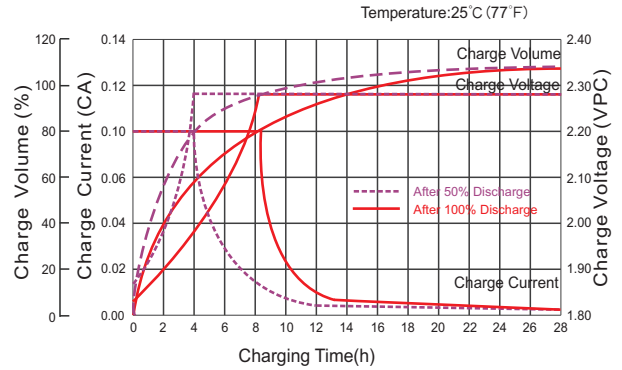
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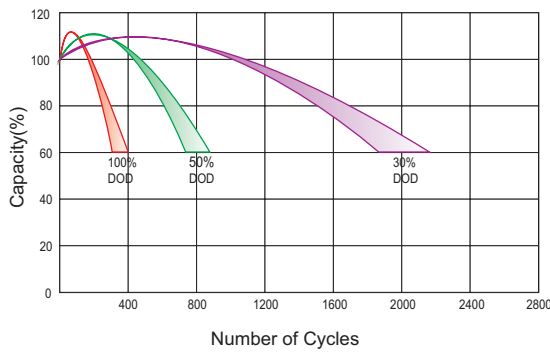
Discharge Characteristics Curve



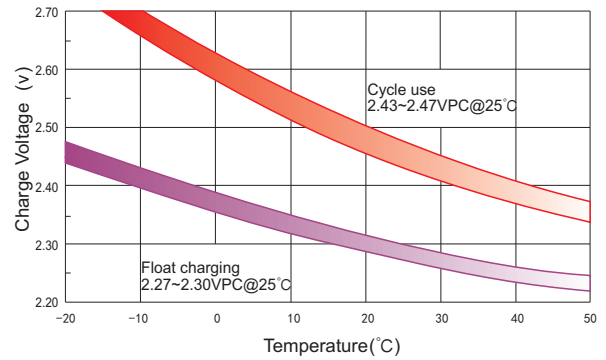
Charge Characteristic Curve For Standby Use



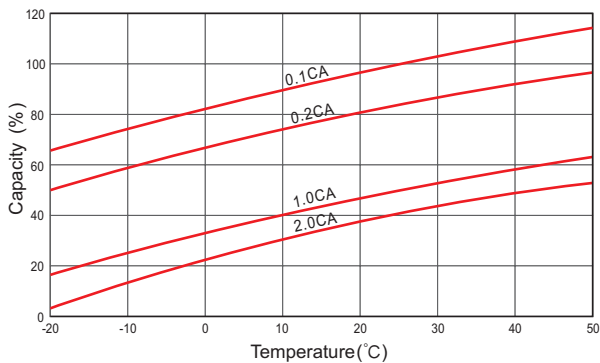
Cycle Life In Relation To Depth Of Discharge



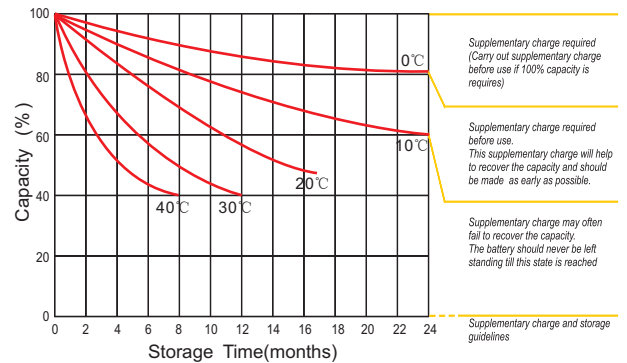
Relationship Between Charging Voltage And Temperature



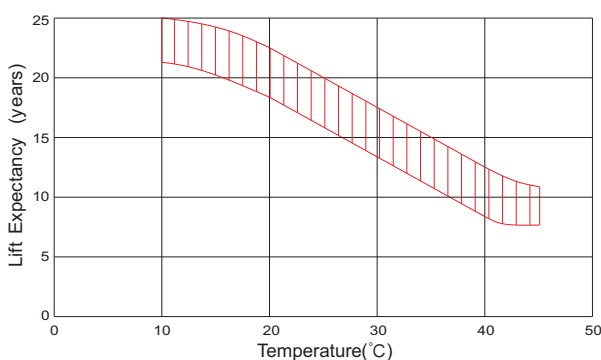
Temperature Effects On Capacity



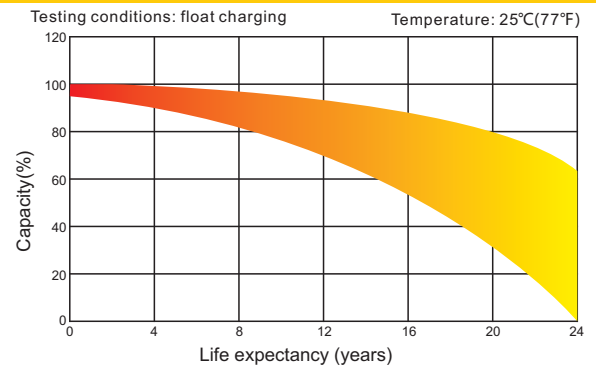
Storage Characteristics



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.