



RL2-2500(2V2500Ah)

Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	2500Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 140.0 Kg (Tolerance ± 1%)
Internal Resistance	Approx. 0.33 mΩ
Terminal	F10(M8)
Max. Discharge Current	7000A (5 sec)
Short Circuit Current	18100A
Design Life	20 years (Float charging)
Recommended Maximum Charging Current	500 A
Reference Capacity	C1 1414.0AH C3 1938.6AH C5 2187.5AH C10 2500.0AH
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	2442	1529	924.7	683.4	550.6	459.2	316.7	266.3	139.8
1.65V	2389	1501	911.2	674.3	543.8	453.9	313.5	263.8	138.5
1.70V	2318	1463	893.2	662.2	534.7	446.8	309.3	260.5	136.7
1.75V	2225	1414	869.4	646.2	522.6	437.5	303.6	256.0	134.4
1.80V	2105	1349	838.1	625.0	506.7	425.0	296.1	250.0	131.3
1.85V	1951	1266	797.3	597.4	485.8	408.8	286.2	242.2	127.1

Constant Power Discharge Characteristics : WPC (25°C)

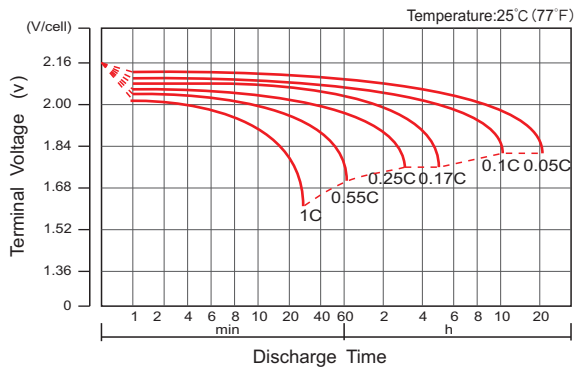
F. V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	4567	2898	1766	1312	1061	896.8	622.6	524.4	275.3
1.65V	4514	2865	1751	1301	1054	889.2	617.6	520.4	273.2
1.70V	4395	2802	1721	1281	1038	876.5	609.6	514.2	270.0
1.75V	4240	2720	1682	1255	1018	859.7	599.2	506.0	265.6
1.80V	4030	2609	1628	1218	990.6	837.3	585.1	494.8	259.8
1.85V	3763	2462	1556	1169	952.9	807.1	566.4	479.9	252.0

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

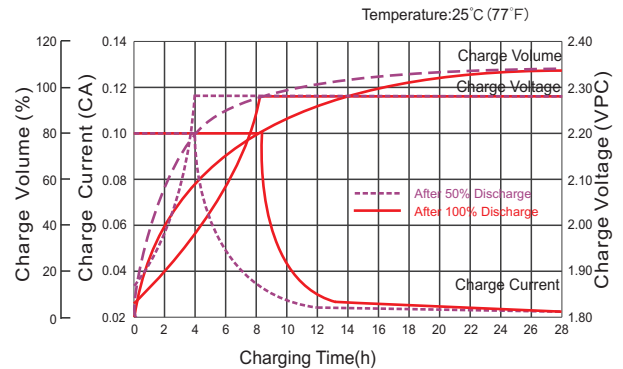
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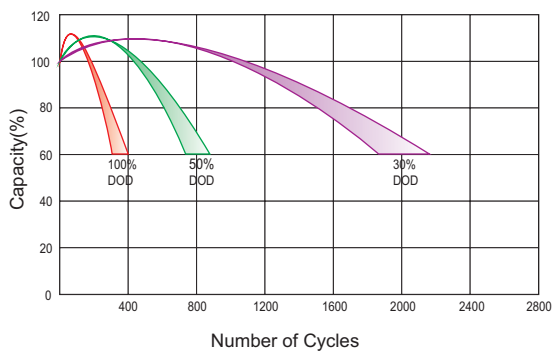
Discharge Characteristics Curve



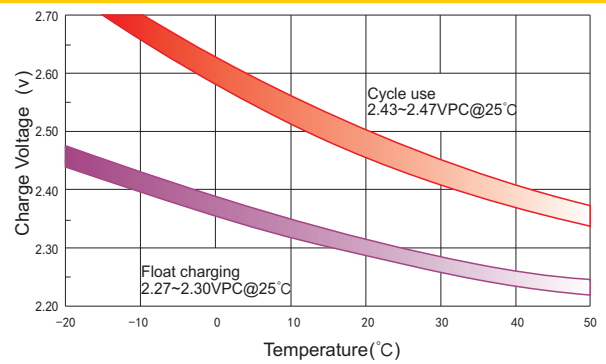
Charge Characteristic Curve For Standby Use



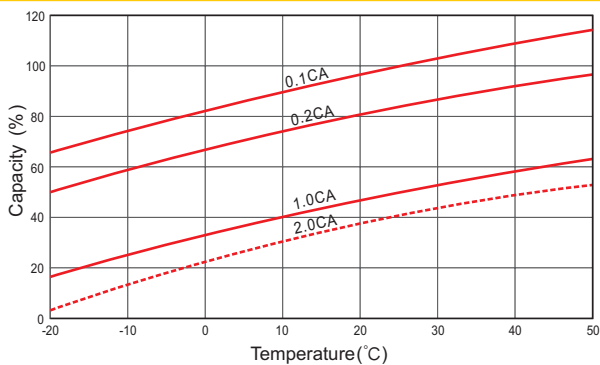
Cycle Life In Relation To Depth Of Discharge



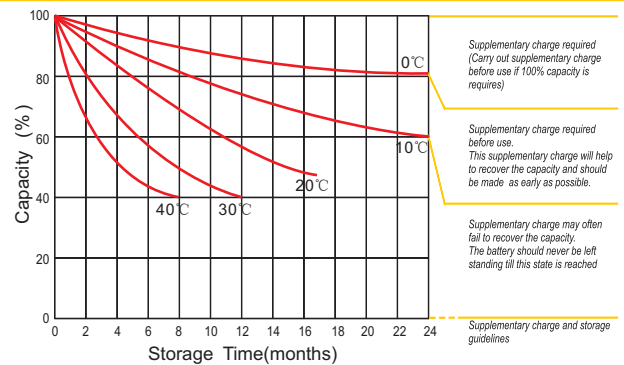
Relationship Between Charging Voltage And Temperature



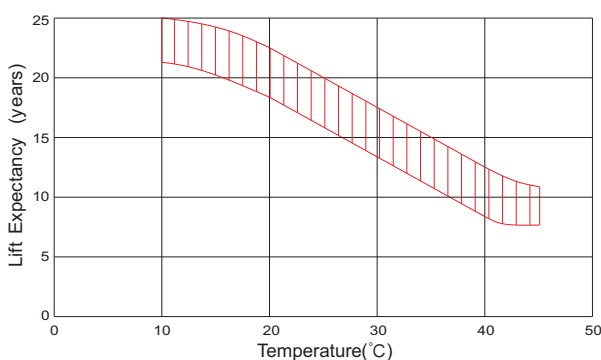
Temperature Effects On Capacity



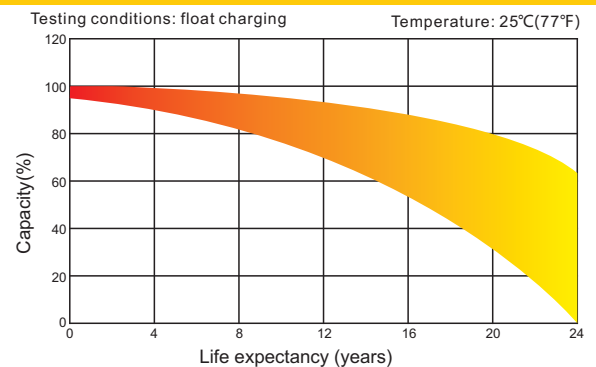
Storage Characteristics



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.