



RL2-200(2V200Ah)

Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	200Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 13.1 Kg (Tolerance ±3%)
Internal Resistance	Approx. 0.8 mΩ
Terminal	F10(M8)
Max. Discharge Current	1000A (5 sec)
Short Circuit Current	2650A
Design Life	20 years (Float charging)
Recommended Maximum Charging Current	40 A
Reference Capacity	C1 123.5AH C3 155.1AH C5 175.0AH C10 200.0AH
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	172.5±2mm (6.79 inches)
Width	110±2mm (4.33 inches)
Height	328±2mm (12.9 inches)
Total Height	351±2mm (13.8 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	313.9	197.4	123.5	74.7	54.7	44.1	36.7	25.3	21.3
1.65V	305.7	193.0	121.3	73.6	53.9	43.5	36.3	25.1	21.1
1.70V	294.9	187.3	118.2	72.2	53.0	42.8	35.7	24.7	20.8
1.75V	280.8	179.8	114.2	70.3	51.7	41.8	35.0	24.3	20.5
1.80V	262.7	170.1	109.0	67.7	50.0	40.5	34.0	23.7	20.0
1.85V	239.8	157.7	102.3	64.4	47.8	38.9	32.7	22.9	19.4

Constant Power Discharge Characteristics : WPC (25°C)

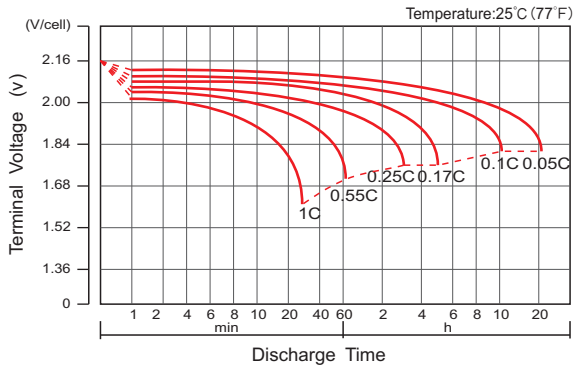
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	570.2	369.0	234.2	142.7	105.0	84.9	71.7	49.8	42.0
1.65V	563.5	364.7	231.5	141.5	104.1	84.3	71.1	49.4	41.6
1.70V	546.7	355.2	226.4	139.0	102.5	83.0	70.1	48.8	41.1
1.75V	525.9	342.6	219.8	135.9	100.4	81.5	68.8	47.9	40.5
1.80V	497.0	325.7	210.8	131.5	97.4	79.2	67.0	46.8	39.6
1.85V	458.2	304.1	198.9	125.7	93.5	76.2	64.6	45.3	38.4

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

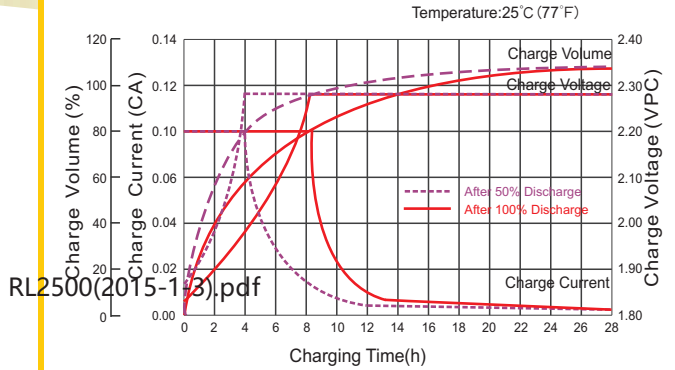
RL2-200(2V200Ah)



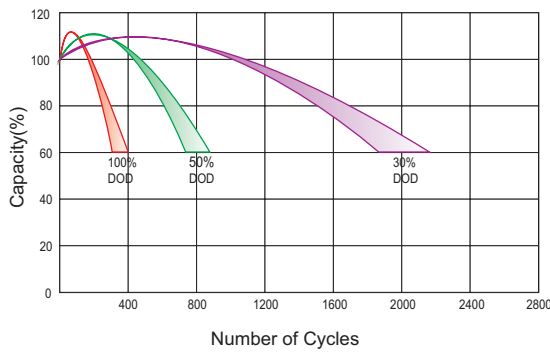
Discharge Characteristics Curve



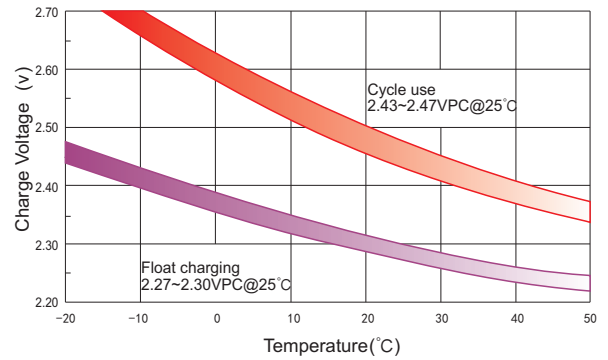
Charge Characteristic Curve For Standby Use



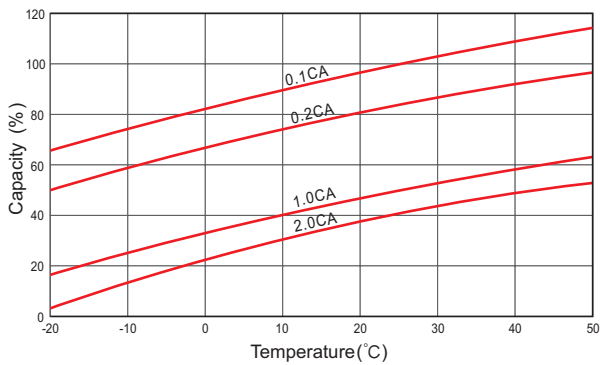
Cycle Life In Relation To Depth Of Discharge



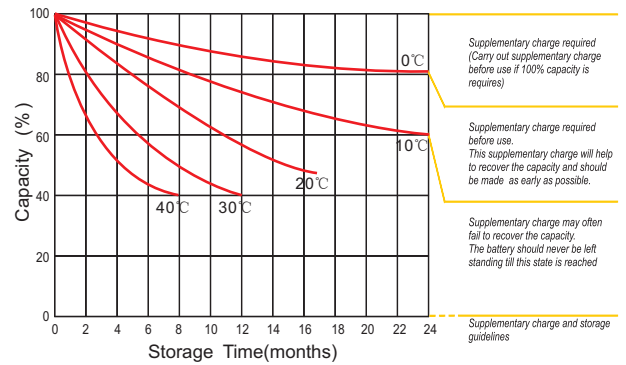
Relationship Between Charging Voltage And Temperature



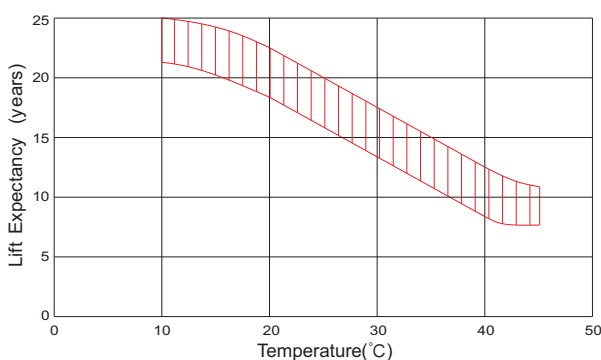
Temperature Effects On Capacity



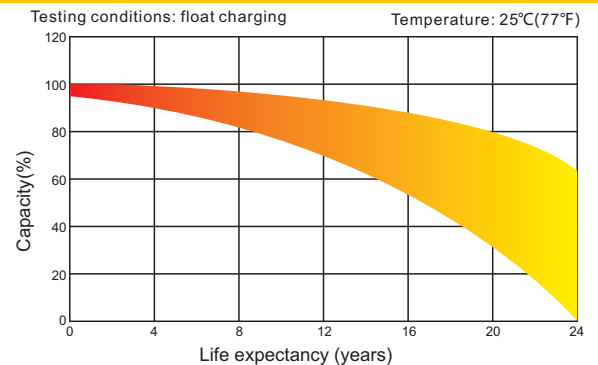
Storage Characteristics



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.