RL2-270(2V270Ah)

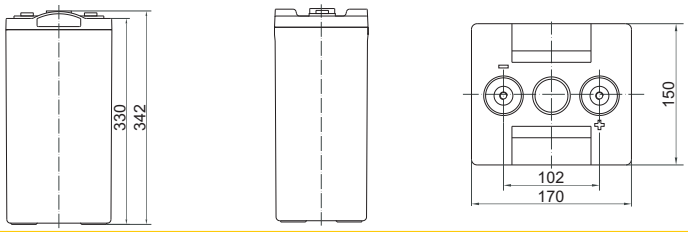
Specification

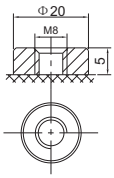
Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	270Ah@10hour-rate to 1.80V per cell @25℃
Weight	Approx. 16.5 Kg (Tolerance±3.0%)
Internal Resistance	Approx. 0.72 mΩ
Terminal	F10(M8)
Max. Discharge Current	1350A (5 sec)
Short Circuit Current	2620A
Design Life	20 years (Float charging)
Max. Charging Current	54 A
Reference Capacity	C1 148.5AH C3 202.5AH C5 229.5AH C10 270.0AH
Standby Use Voltage	2.27 V~2.30 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	2.43 V~2.47 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -20℃~60℃ Charge: -0℃~50℃ Storage: -20℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25℃ and then recharging be stored for up to 6 months at 25℃ and then recharging than 3% at 25℃.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.

ISO 9001 ISO 14001 OHSAS 18001

Dimensions





F10 TERMINAL

Length	170±2mm (6.69 inches)
Width	150±2mm (5.91 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 inches)
Terminal	Value
M5	9~10 N*m
M6	11~12 N*m
M8	14~15 N*m

Unit: mm

Constant Current Discharge Characteristics : A (25℃)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	423.8	266.5	165.0	101.6	76.2	61.3	50.9	34.2	28.5
1.65V	397.1	255.8	159.3	98.3	73.8	59.6	49.6	33.9	28.1
1.70V	371.9	244.5	154.1	95.1	71.8	58.0	48.3	33.3	27.7
1.75V	346.1	233.7	148.5	91.8	69.7	56.5	47.1	32.9	27.3
1.80V	319.6	223.4	142.8	88.5	67.5	54.9	45.9	32.3	27.0
1.85V	265.2	192.4	128.1	81.1	62.4	51.0	42.8	30.3	25.4

Constant Power Discharge Characteristics : WPC (25℃)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	740.9	484.0	310.0	192.5	145.5	117.7	98.2	66.9	56.0
1.65V	704.4	469.5	301.1	187.3	141.6	114.9	96.0	66.2	55.4
1.70V	669.6	453.3	293.1	182.1	138.3	112.2	93.8	65.4	54.6
1.75V	632.2	437.7	284.1	176.6	134.8	109.8	91.8	64.6	54.0
1.80V	592.0	422.6	274.8	171.1	131.1	107.0	89.7	63.6	53.3
1.85V	498.2	367.6	248.0	157.6	121.7	99.8	84.0	59.9	50.3

(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 C_{10} should reach 95% after the first cycle and 100% after the third cycle.

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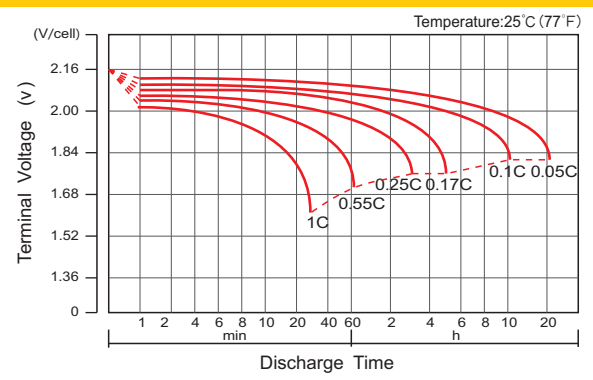
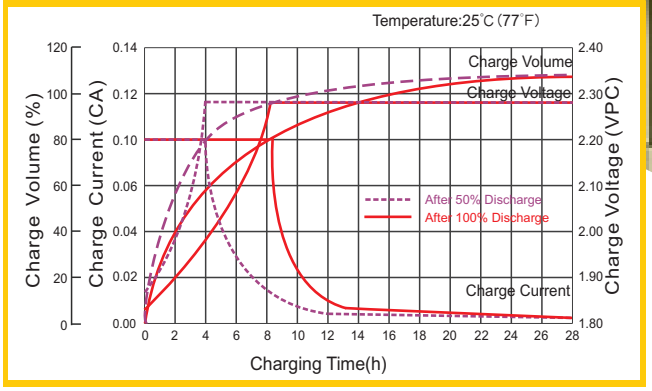
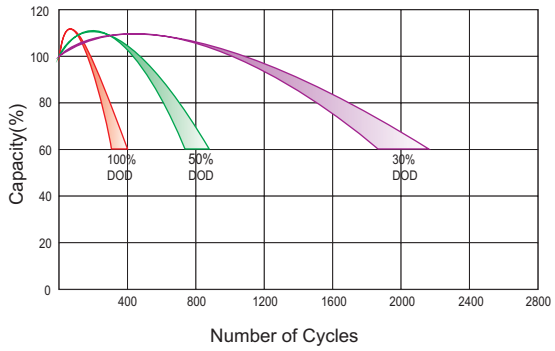
Discharge Characteristics Curve



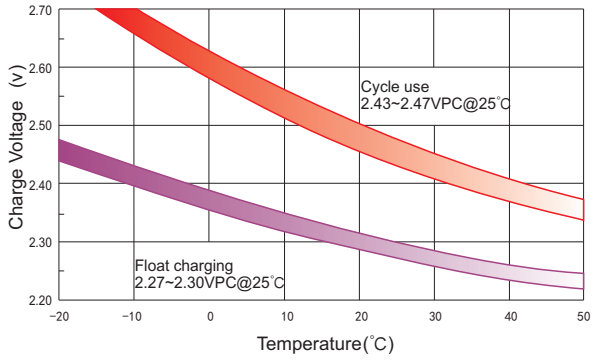
Charge Characteristic Curve For Standby Use



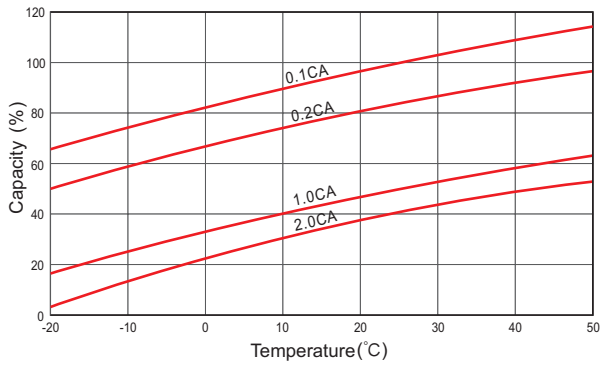
Cycle Life In Relation To Depth Of Discharge



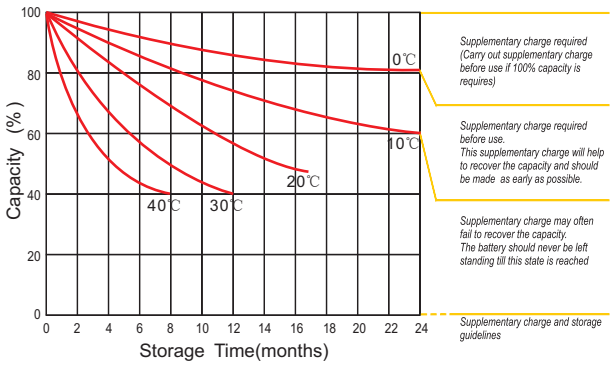
Relationship Between Charging Voltage And Temperature



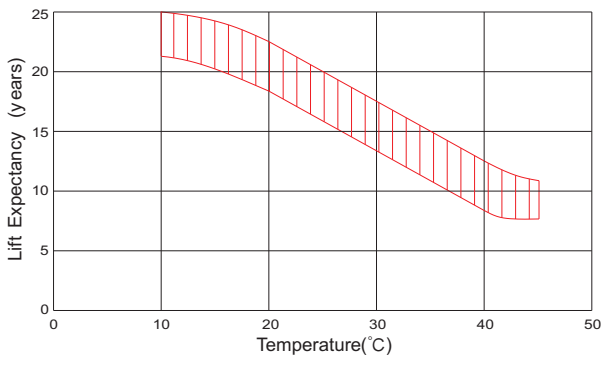
Temperature Effects On Capacity



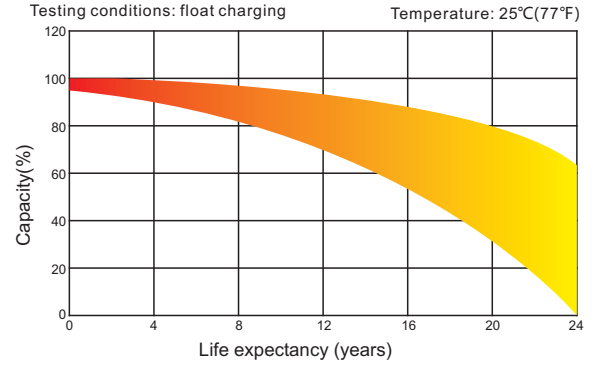
Storage Characteristics



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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