



RL2-1000(2V1000Ah)

Specification

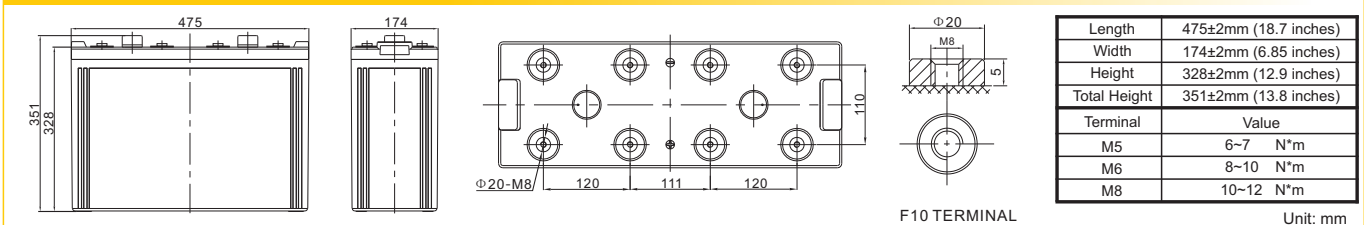
Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	1000Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 60.5 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 0.55 mΩ
Terminal	F10(M8)
Max. Discharge Current	4000A (5 sec)
Short Circuit Current	6850A
Design Life	20 years (Float charging)
Recommended Maximum Charging Current	200 A
Reference Capacity	C1 617.7AH C3 775.5AH C5 875.0AH C10 1000AH
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



Constant Current Discharge Characteristics : A (25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	1413	986.9	617.7	373.6	273.4	220.3	183.7	126.7	106.5
1.65V	1376	965.2	606.3	368.2	269.7	217.5	181.6	125.4	105.5
1.70V	1327	936.5	591.1	360.9	264.9	213.9	178.7	123.7	104.2
1.75V	1264	899.0	571.2	351.3	258.5	209.0	175.0	121.4	102.4
1.80V	1182	850.4	545.2	338.6	250.0	202.7	170.0	118.4	100.0
1.85V	1079	788.4	511.7	322.2	239.0	194.3	163.5	114.5	96.9

Constant Power Discharge Characteristics : WPC (25°C)

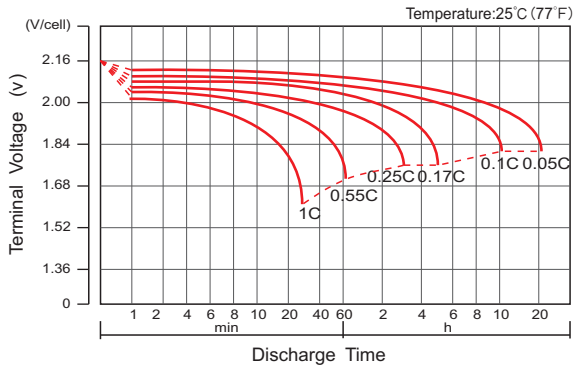
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	2566	1845	1171	713.6	524.8	424.6	358.7	249.0	209.8
1.65V	2536	1824	1157	707.5	520.6	421.5	355.7	247.0	208.2
1.70V	2460	1776	1132	695.2	512.4	415.2	350.6	243.9	205.7
1.75V	2367	1713	1099	679.6	501.9	407.3	343.9	239.7	202.4
1.80V	2236	1628	1054	657.7	487.2	396.2	334.9	234.0	197.9
1.85V	2062	1520	994.7	628.5	467.4	381.2	322.8	226.6	192.0

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

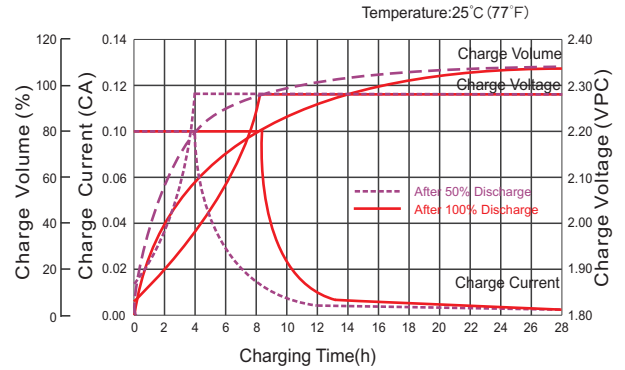
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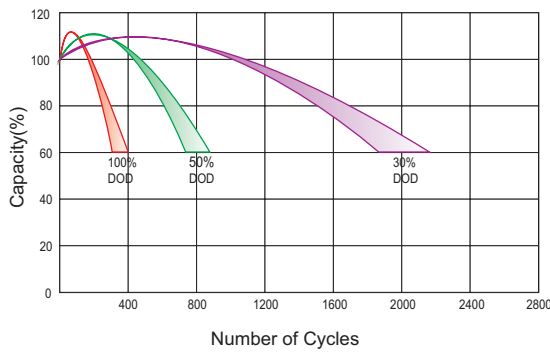
Discharge Characteristics Curve



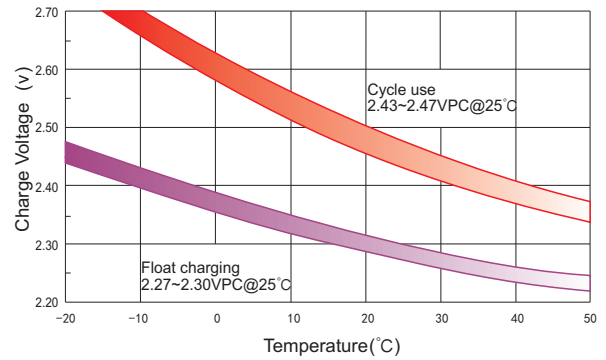
Charge Characteristic Curve For Standby Use



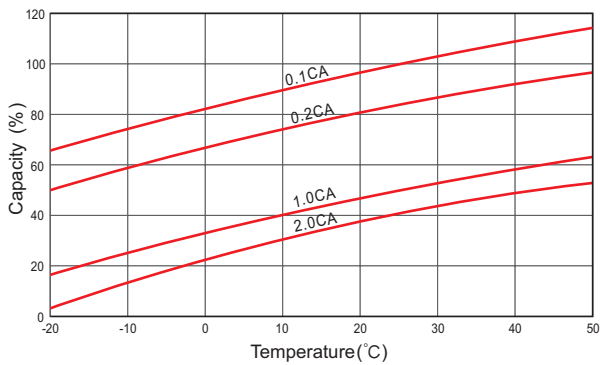
Cycle Life In Relation To Depth Of Discharge



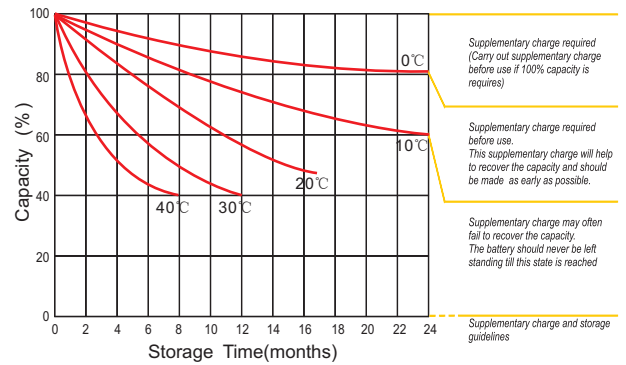
Relationship Between Charging Voltage And Temperature



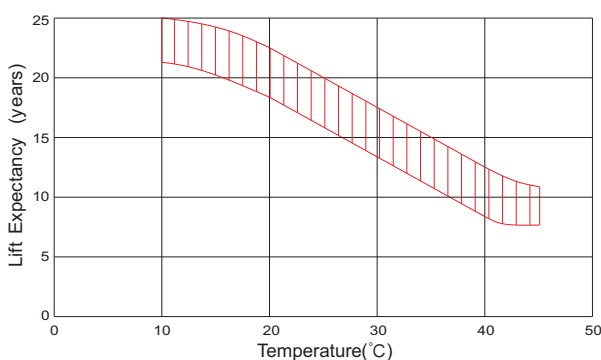
Temperature Effects On Capacity



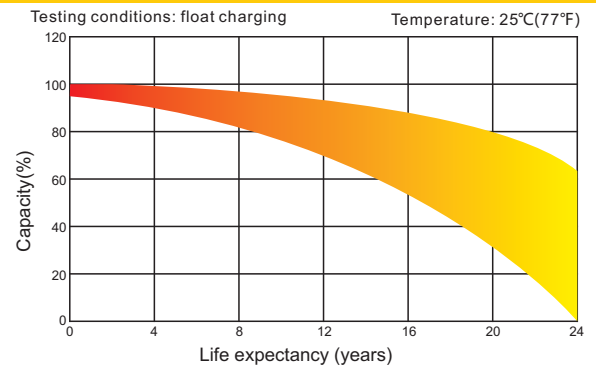
Storage Characteristics



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.