



RL2-1500(2V1500Ah)

Specification

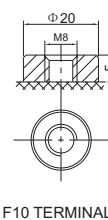
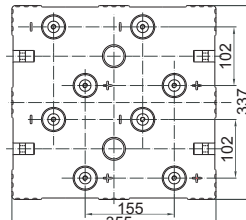
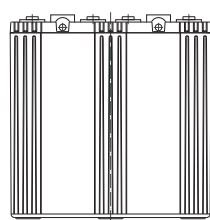
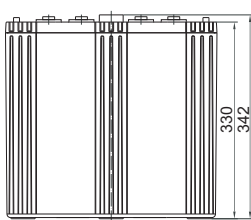
Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	1500Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 84.5 Kg (Tolerance ± 3.0%)
Internal Resistance	Approx. 0.40 mΩ
Terminal	F10(M8)
Max. Discharge Current	6000A (5 sec)
Short Circuit Current	10200A
Design Life	20 years (Float charging)
Max. Charging Current	300 A
Reference Capacity	C1 825.0AH C3 1161.0AH C5 1308.5AH C10 1500.0AH
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 be stored for up to 6 months at 25°C and then recharging 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	355±2mm (14.0 inches)
Width	337±2mm (13.3 inches)
Height	330±2mm (13.0 inches)
Total Height	342±2mm (13.5 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
1.60V	1451	916.5	564.4	423.1	340.6	283.0	190.2	158.2
1.65V	1393	885.1	546.4	410.0	331.3	275.6	188.1	156.3
1.70V	1331	856.3	528.4	398.9	322.3	268.5	185.1	154.0
1.75V	1272	825.0	509.9	387.0	314.1	261.7	182.6	151.9
1.80V	1216	793.4	491.7	375.0	305.1	255.0	179.5	150.0
1.85V	1047	711.6	450.5	346.7	283.5	237.8	168.5	141.2

Constant Power Discharge Characteristics : WPC (25°C)

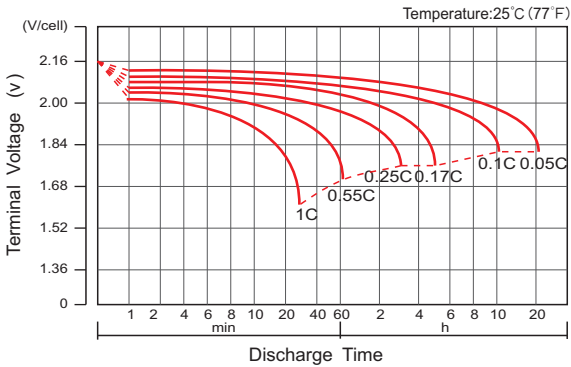
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	2635	1722	1070	808.1	653.8	545.5	371.4	311.1
1.65V	2556	1673	1041	786.4	638.5	533.3	368.0	307.7
1.70V	2468	1628	1012	768.4	623.5	521.3	363.2	303.5
1.75V	2383	1578	981.0	748.7	609.8	509.9	358.8	299.8
1.80V	2301	1527	950.7	728.4	594.4	498.5	353.5	296.4
1.85V	2001	1378	875.8	676.4	554.6	466.4	332.7	279.4

(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 C10 should reach 95% after the first cycle and 100% after the third cycle.

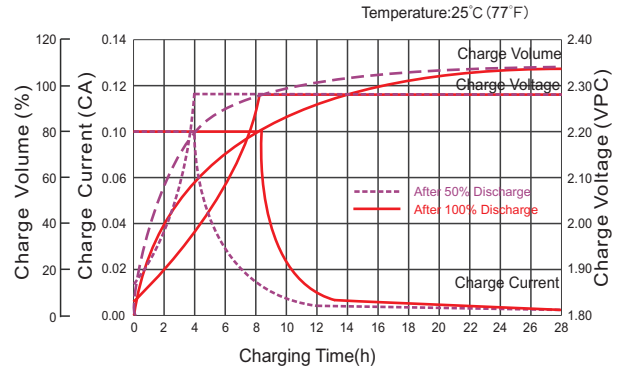
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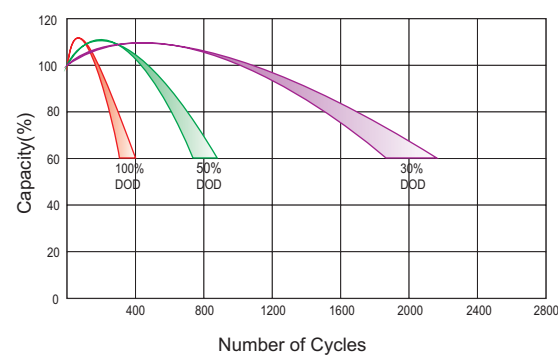
Discharge Characteristics Curve



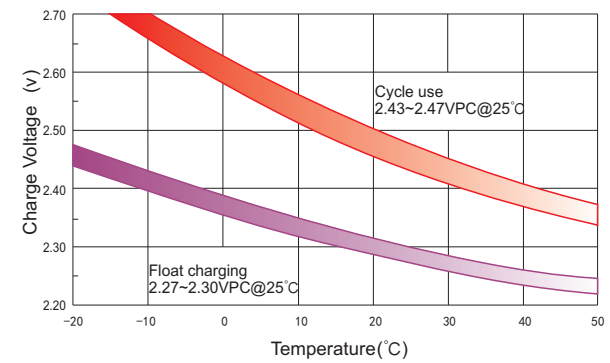
Charge Characteristic Curve For Standby Use



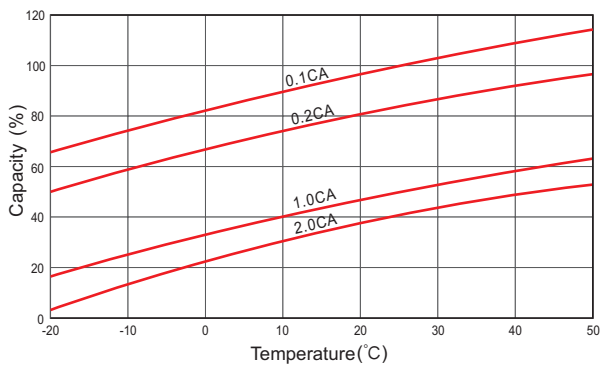
Cycle Life In Relation To Depth Of Discharge



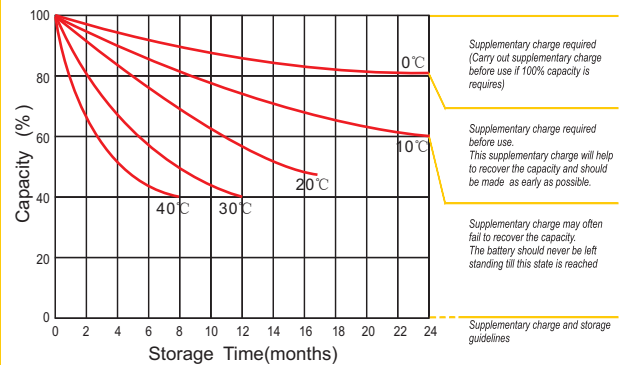
Relationship Between Charging Voltage And Temperature



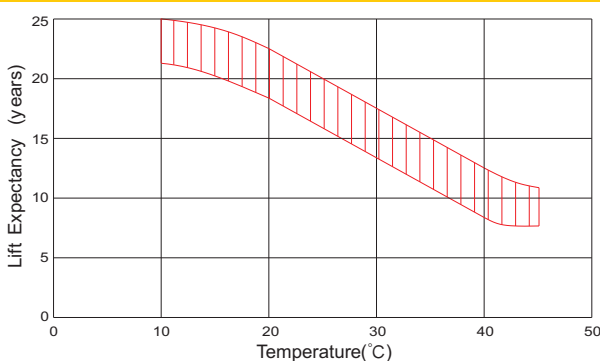
Temperature Effects On Capacity



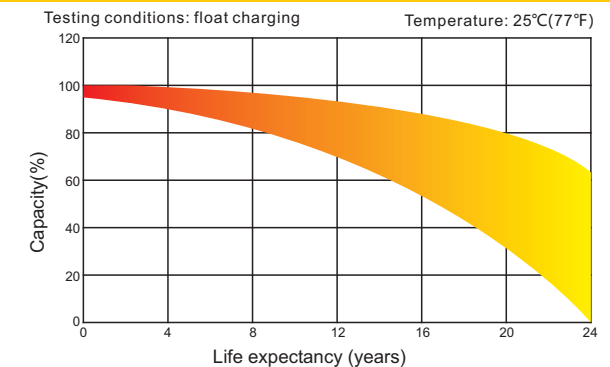
Storage Characteristics



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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