RL2-3000(2V3000Ah)

Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	3000Ah@10hour-rate to 1.80V per cell @25℃
Weight	Approx. 178 Kg (Tolerance±1%)
Internal Resistance	Approx. 0.3 mΩ
Terminal	F10(M8)
Max. Discharge Current	8000A (5 sec)
Short Circuit Current	23150A
Design Life	20 years (Float charging)
Recommended Maximum Charging Current	600 A
Reference Capacity	C1 1696.0AH C3 2326.2AH C5 2624.5AH C10 3000.0AH
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 is recommended. Monthly Self-discharge ratio is less 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.

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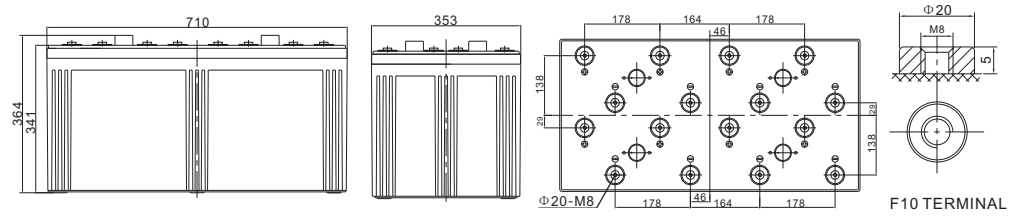
Dimensions



Length	710±2mm (28.0 inches)
Width	353±2mm (13.9 inches)
Height	341±2mm (13.9 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℃)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	2931	1835	1110	820.1	660.8	551.0	380.1	319.6	167.8
1.65V	2867	1801	1093	809.2	652.6	544.7	376.3	316.6	166.2
1.70V	2782	1756	1072	794.6	641.6	536.2	371.1	312.5	164.1
1.75V	2670	1696	1043	775.4	627.1	524.9	364.3	307.2	161.3
1.80V	2526	1619	1006	750.0	608.0	510.0	355.3	300.0	157.5
1.85V	2341	1520	956.8	716.9	582.9	490.5	343.4	290.6	152.6

Constant Power Discharge Characteristics : WPC (25℃)

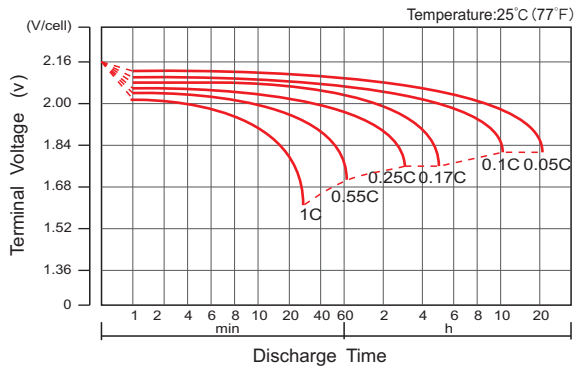
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	5480	3477	2119	1574	1274	1076	747.1	629.3	330.4
1.65V	5416	3438	2101	1562	1264	1067	741.1	624.5	327.9
1.70V	5274	3362	2065	1537	1246	1052	731.6	617.1	324.0
1.75V	5088	3264	2018	1506	1222	1032	719.0	607.2	318.8
1.80V	4836	3131	1953	1462	1189	1005	702.1	593.8	311.7
1.85V	4515	2954	1867	1402	1144	968.5	679.7	575.9	302.4

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

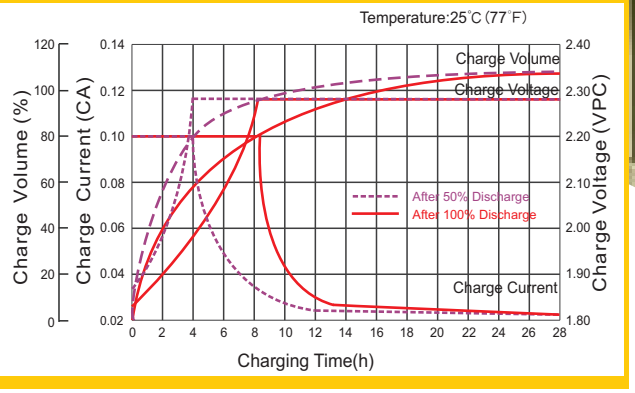
RL2-3000(2V3000Ah)

RITAR®

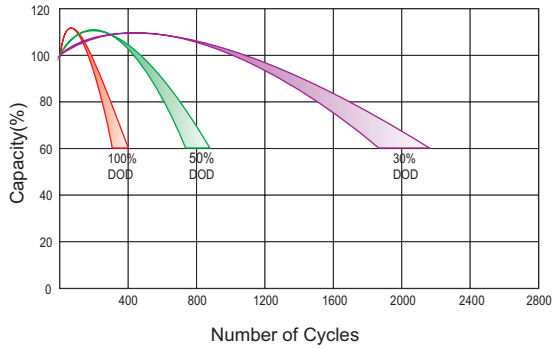
Discharge Characteristics Curve



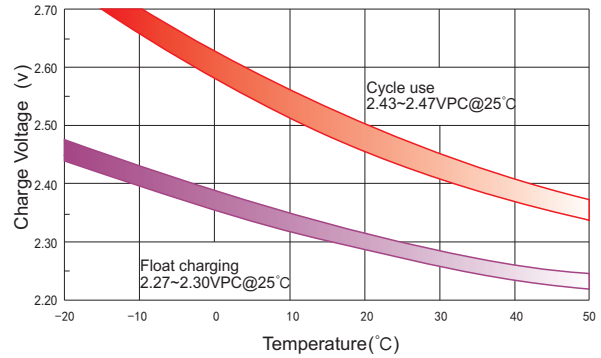
Charge Characteristic Curve For Standby Use



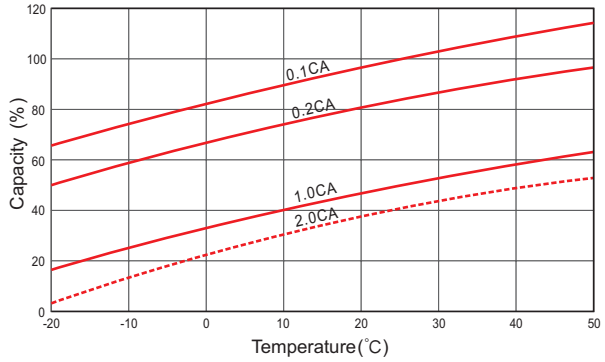
Cycle Life In Relation To Depth Of Discharge



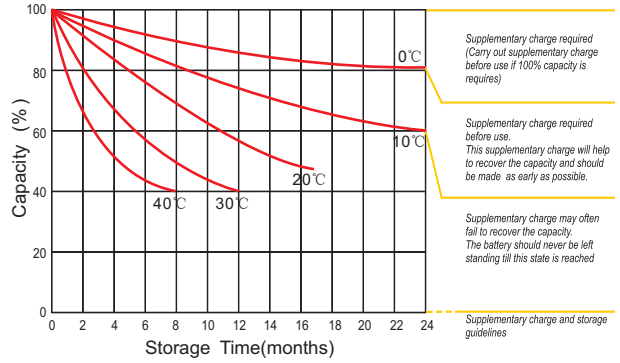
Relationship Between Charging Voltage And Temperature



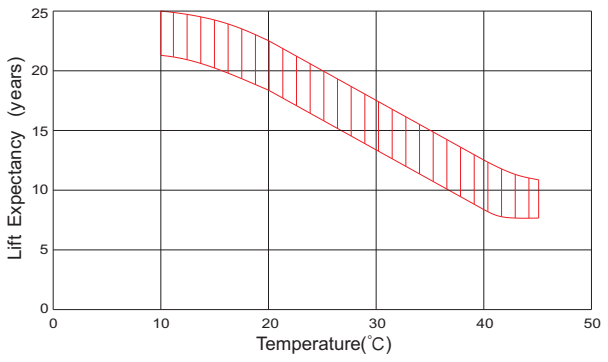
Temperature Effects On Capacity



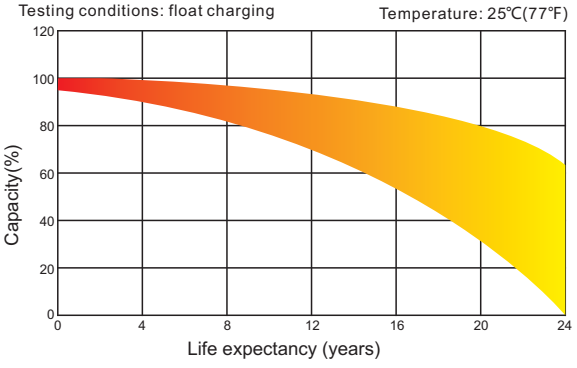
Storage Characteristics



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.

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