



# RL2-3000(2V3000Ah)

## Specification

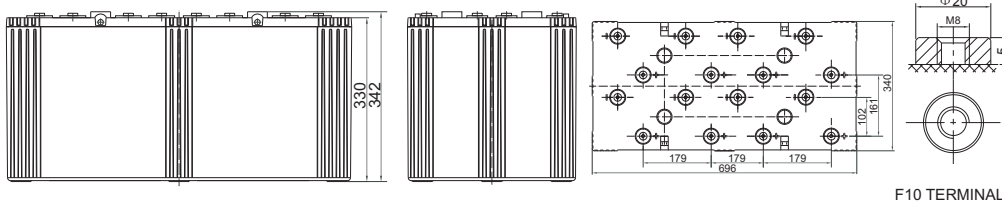
Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	3000Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 170.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 0.30 mΩ
Terminal	F10(M8)
Max. Discharge Current	8000A (5 sec)
Short Circuit Current	23150A
Design Life	20 years (Float charging)
Max. Charging Current	600 A
Reference Capacity	C1 1650.0AH C3 2321.7AH C5 2617.5AH C10 3000.0AH
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	696±2mm (27.4 inches)
Width	340±2mm (13.4 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

F10 TERMINAL

Unit: mm

### Constant Current Discharge Characteristics : A (25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	2901	1833	1129	846.1	681.1	566.0	380.4	316.5
1.65V	2814	1770	1093	820.0	662.7	551.3	376.1	312.6
1.70V	2690	1713	1057	797.8	644.7	537.0	370.3	307.9
1.75V	2571	1650	1020	773.9	628.2	523.5	365.2	303.9
1.80V	2457	1587	983.3	750.0	610.1	510.0	358.9	300.0
1.85V	2116	1423	901.0	693.3	567.1	475.6	337.0	282.4

### Constant Power Discharge Characteristics : WPC (25°C)

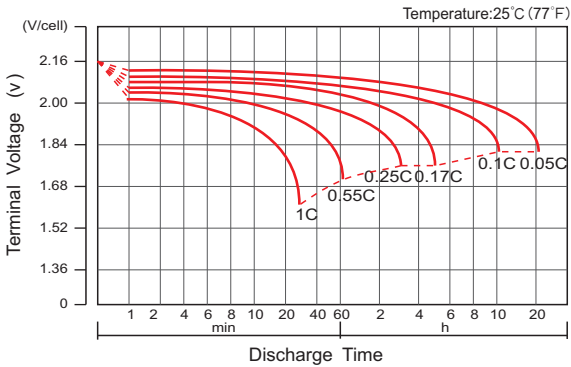
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	5270	3445	2139	1616	1308	1091	742.9	622.1
1.65V	5165	3346	2081	1573	1277	1067	736.1	615.4
1.70V	4986	3257	2024	1537	1247	1043	726.3	606.9
1.75V	4815	3157	1962	1497	1220	1020	717.7	599.7
1.80V	4648	3054	1901	1457	1189	997.0	707.1	592.8
1.85V	4043	2756	1752	1353	1109	932.8	665.4	558.9

(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<sub>10</sub> should reach 95% after the first cycle and 100% after the third cycle.

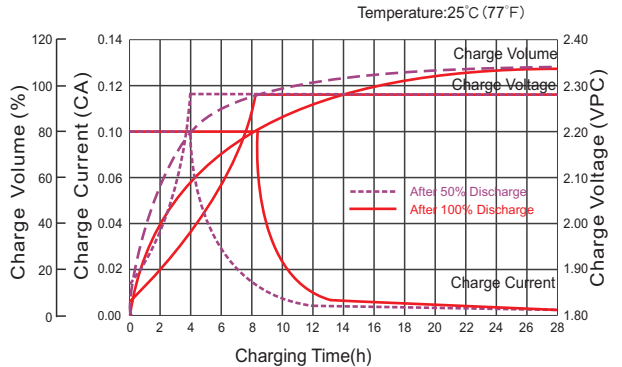
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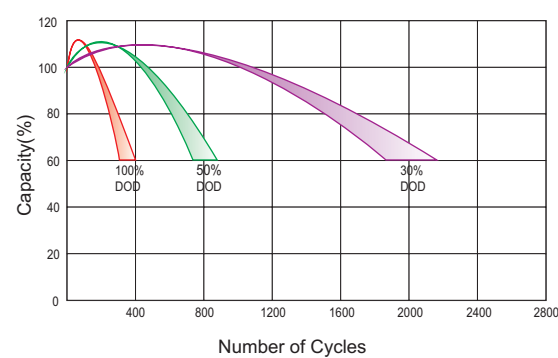
## Discharge Characteristics Curve



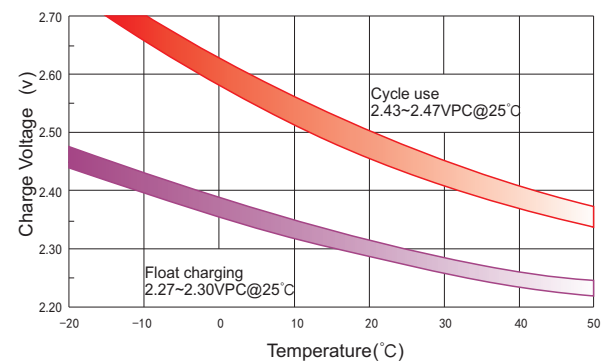
## Charge Characteristic Curve For Standby Use



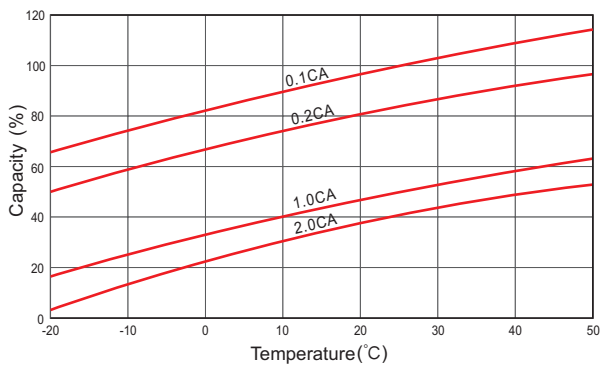
## Cycle Life In Relation To Depth Of Discharge



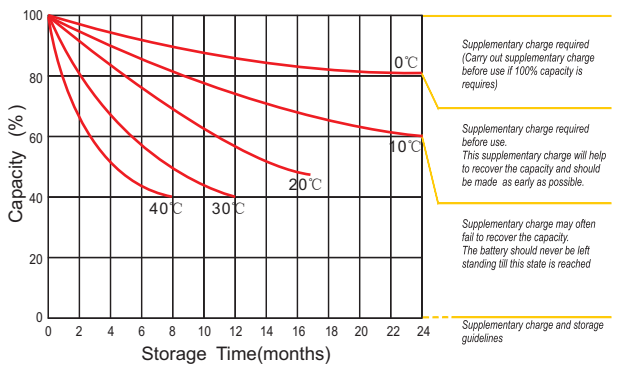
## Relationship Between Charging Voltage And Temperature



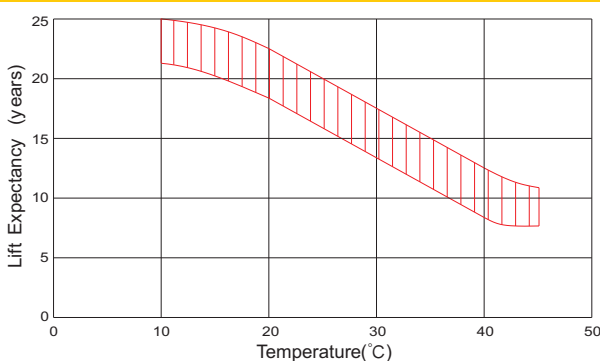
## Temperature Effects On Capacity



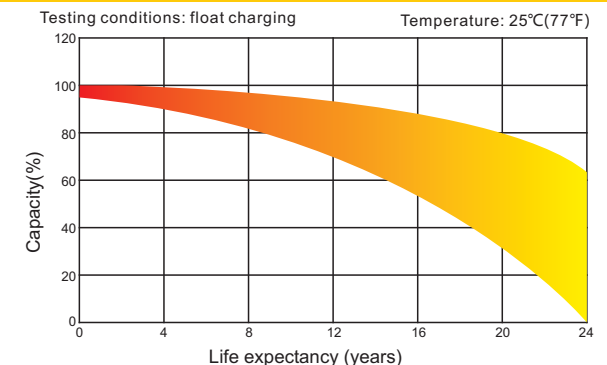
## Storage Characteristics



## 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.

**HENGYANG RITAR POWER CO.,LTD.**  
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