



# RL2-750(2V750Ah)

## Specification

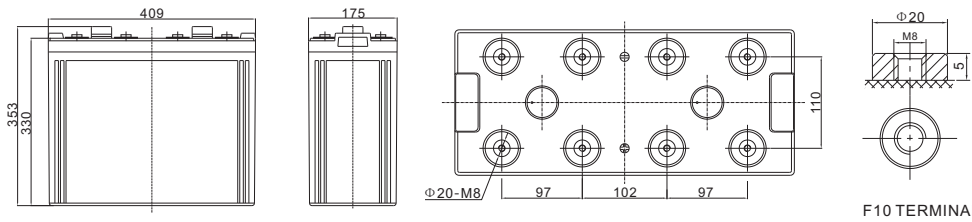
Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	750Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 46.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 0.62 mΩ
Terminal	F10(M8)
Max. Discharge Current	3000A (5 sec)
Short Circuit Current	6050A
Design Life	20 years (Float charging)
Recommended Maximum Charging Current	150 A
Reference Capacity	C1 463.3AH C3 581.4AH C5 656.0AH C10 750.0AH
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 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



Length	409±2mm (16.1 inches)
Width	175±2mm (6.89 inches)
Height	330±2mm (13.0 inches)
Total Height	353±2mm (13.9 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	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	1177	740.1	463.3	280.2	205.0	165.2	137.8	95.0	79.9
1.65V	1146	723.9	454.7	276.1	202.3	163.1	136.2	94.1	79.1
1.70V	1106	702.4	443.4	270.7	198.7	160.4	134.1	92.8	78.1
1.75V	1053	674.3	428.4	263.4	193.8	156.8	131.2	91.1	76.8
1.80V	985.1	637.8	408.9	254.0	187.5	152.0	127.5	88.8	75.0
1.85V	899.4	591.3	383.7	241.6	179.2	145.7	122.6	85.9	72.6

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

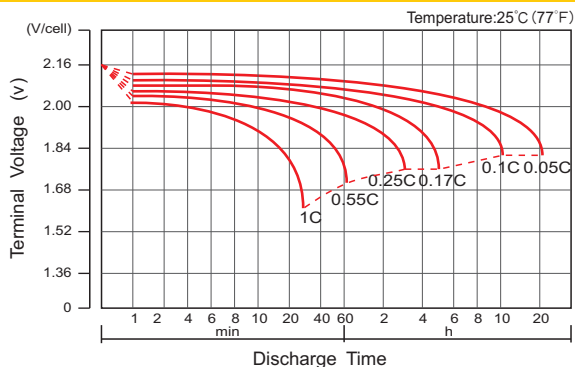
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	2138	1384	878.1	535.2	393.6	318.4	269.0	186.8	157.3
1.65V	2113	1368	868.1	530.6	390.4	316.1	266.8	185.3	156.1
1.70V	2050	1332	849.0	521.4	384.3	311.4	263.0	182.9	154.3
1.75V	1972	1285	824.2	509.7	376.4	305.4	257.9	179.8	151.8
1.80V	1864	1221	790.6	493.3	365.4	297.2	251.2	175.5	148.4
1.85V	1718	1140	746.0	471.4	350.6	285.9	242.1	169.9	144.0

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

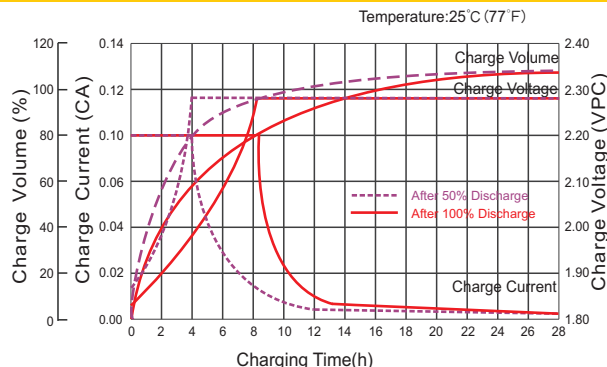
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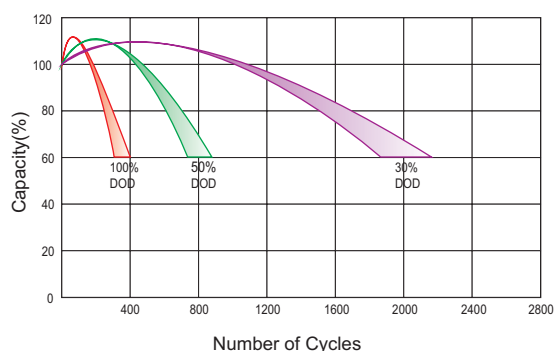
## Discharge Characteristics Curve



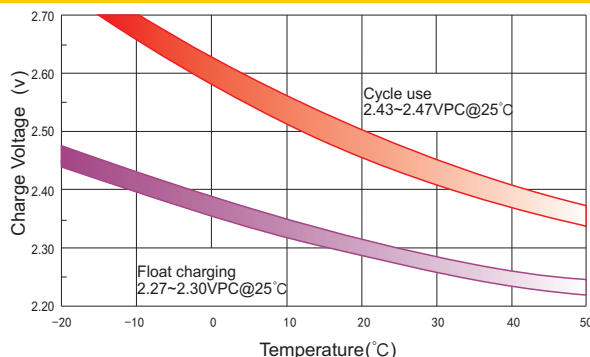
## Charge Characteristic Curve For Standby Use



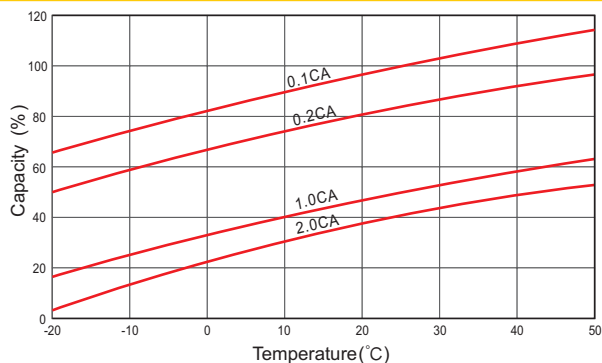
## Cycle Life In Relation To Depth Of Discharge



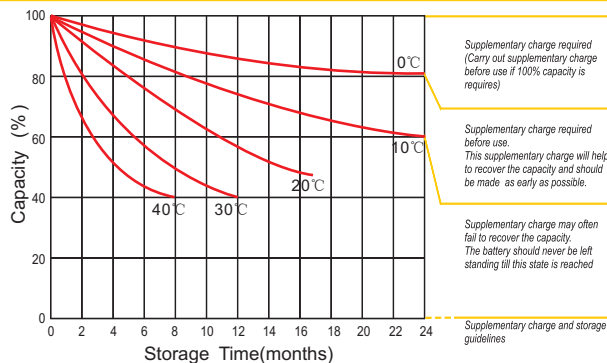
## Relationship Between Charging Voltage And Temperature



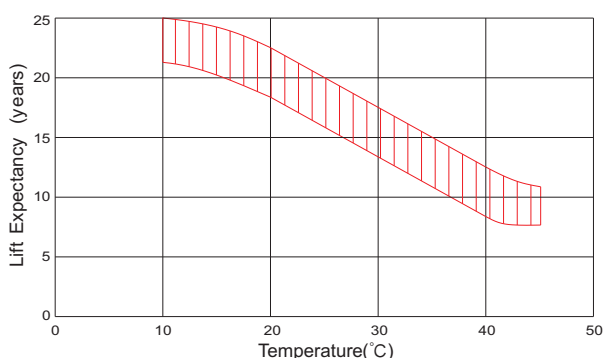
## Temperature Effects On Capacity



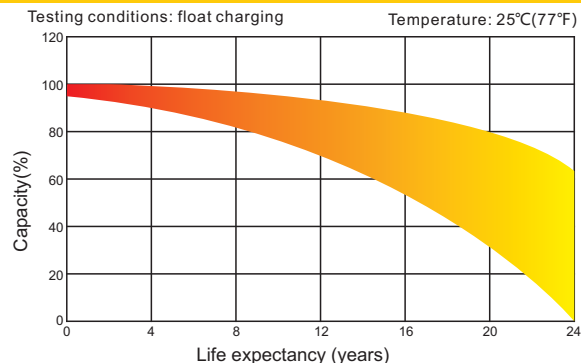
## Storage Characteristics



## 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.