



RL2-2500(2V2500Ah)

Specification

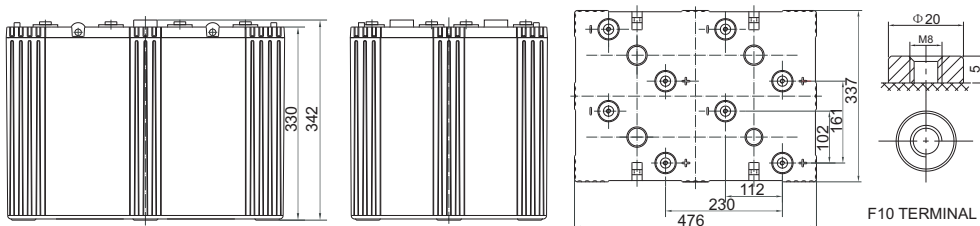
Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	2500Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 121.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 0.33 mΩ
Terminal	F10(M8)
Max. Discharge Current	7500A (5 sec)
Short Circuit Current	18100A
Design Life	20 years (Float charging)
Max. Charging Current	500 A
Reference Capacity	C1 1375.0AH C3 1935.0AH C5 2181.0AH C10 2500.0AH
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	476±2mm (18.7 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	2418	1527	940.7	705.1	567.6	471.7	317.0	263.7
1.65V	2321	1475	910.6	683.4	552.2	459.4	313.4	260.5
1.70V	2219	1427	880.6	664.8	537.2	447.5	308.6	256.6
1.75V	2121	1375	849.9	645.0	523.5	436.2	304.3	253.2
1.80V	2027	1322	819.4	625.0	508.4	425.0	299.1	250.0
1.85V	1746	1186	750.8	577.8	472.6	396.3	280.8	235.3

Constant Power Discharge Characteristics : WPC (25°C)

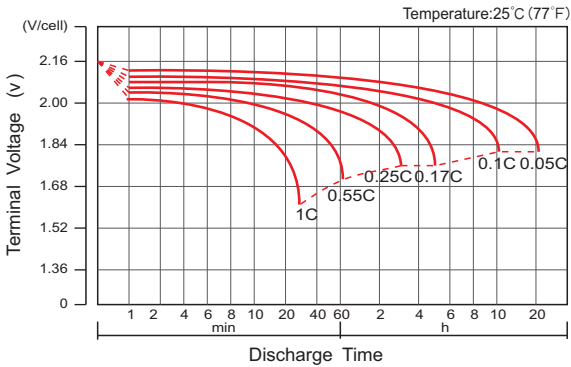
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	4392	2870	1783	1347	1090	909.2	619.0	518.4
1.65V	4260	2788	1734	1311	1064	888.9	613.4	512.8
1.70V	4113	2714	1686	1281	1039	868.8	605.3	505.8
1.75V	3972	2631	1635	1248	1016	849.8	598.1	499.7
1.80V	3834	2545	1584	1214	990.7	830.9	589.2	494.0
1.85V	3335	2296	1460	1127	924.4	777.4	554.5	465.7

(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.

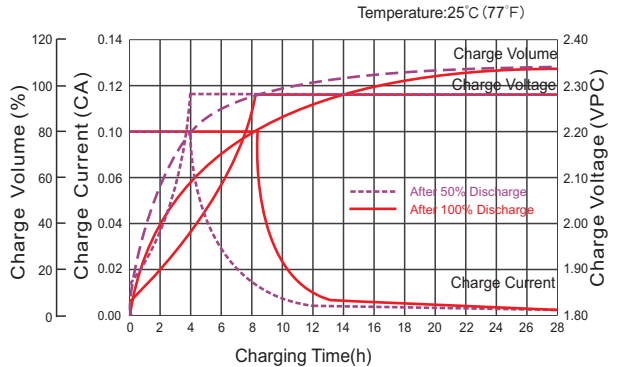
RL2-2500 (2V2500Ah)



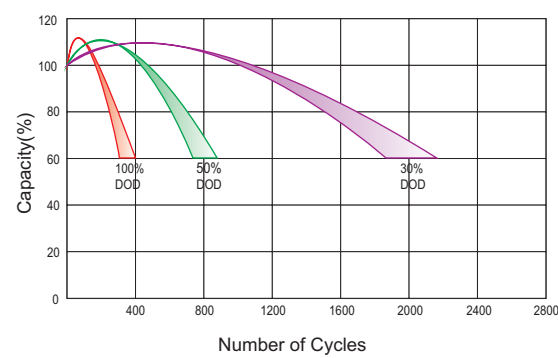
Discharge Characteristics Curve



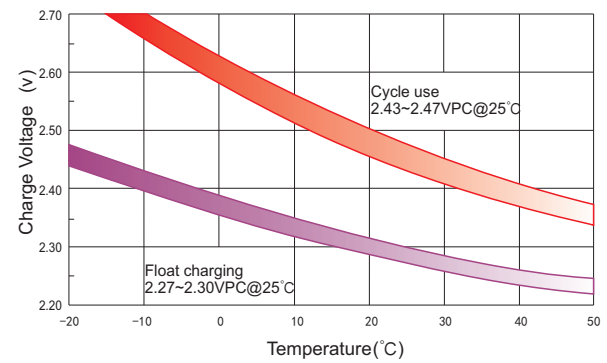
Charge Characteristic Curve For Standby Use



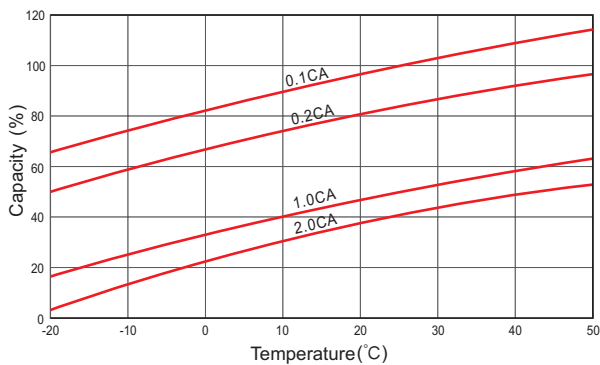
Cycle Life In Relation To Depth Of Discharge



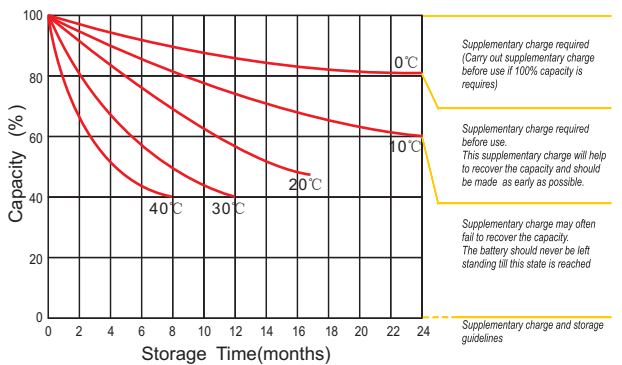
Relationship Between Charging Voltage And Temperature



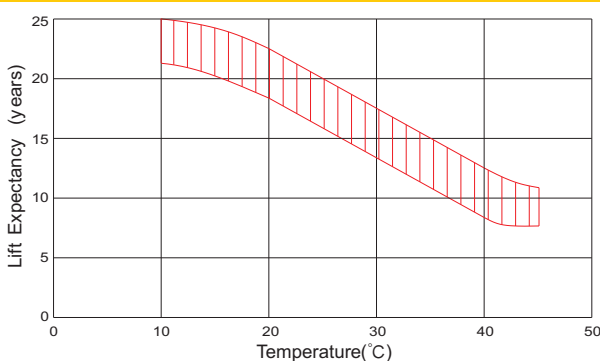
Temperature Effects On Capacity



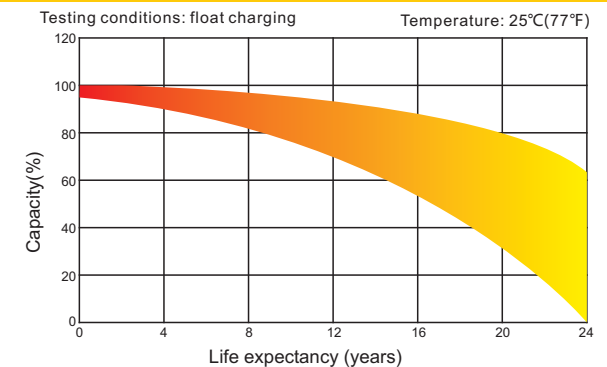
Storage Characteristics



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.
 URL: www.ritarpower.com

Add: No.1 Huagong Road, Songmu Industrial Park, Shigu District, Hengyang, Hunan, China 421001
 Tel: +86-734-8595528 Fax: +86-734-8595518 E-mail: sales@ritarpower.com

Version 19B-0