



# RL2-2500A(2V2500Ah)

## Specification

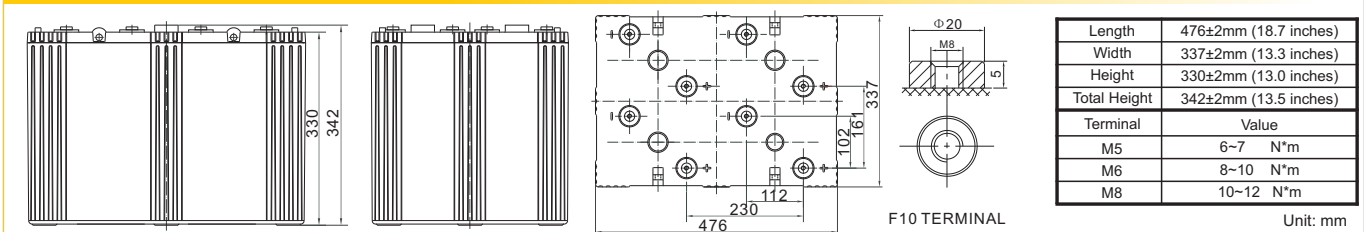
Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	2500Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 121.0 Kg (Tolerance ± 1%)
Internal Resistance	Approx. 0.33 mΩ
Terminal	F10(M8)
Max. Discharge Current	7500A (5 sec)
Short Circuit Current	18100A
Design Life	20 years (Float charging)
Recommended Maximum Charging Current	500 A
Reference Capacity	C1 1472.0AH C3 1938.6AH C5 2187.5AH 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	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



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

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	2442	1472	887.7	683.4	545.1	459.2	316.7	266.3
1.67V	2389	1445	874.7	674.3	538.4	453.9	313.5	263.8
1.70V	2318	1409	857.5	662.2	529.4	446.8	309.3	260.5
1.75V	2225	1361	834.6	646.2	517.4	437.5	303.6	256.0
1.80V	2105	1299	804.5	625.0	501.6	425.0	296.1	250.0
1.85V	1951	1219	765.4	597.4	480.9	408.8	286.2	242.2

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

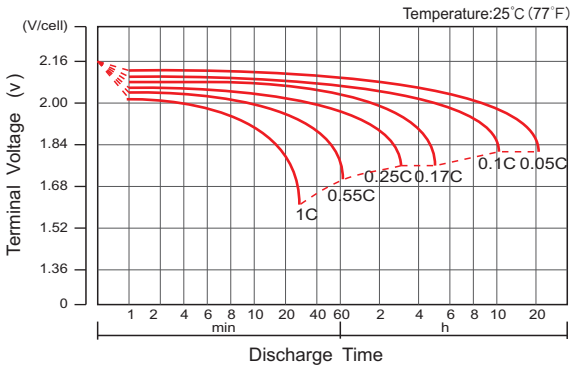
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	4567	2790	1696	1312	1051	896.8	622.6	524.4
1.67V	4514	2758	1681	1301	1043	889.2	617.6	520.4
1.70V	4395	2698	1652	1281	1028	876.5	609.6	514.2
1.75V	4240	2619	1615	1255	1008	859.7	599.2	506.0
1.80V	4030	2512	1563	1218	980.7	837.3	585.1	494.8
1.85V	3763	2371	1493	1169	943.4	807.1	566.4	479.9

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

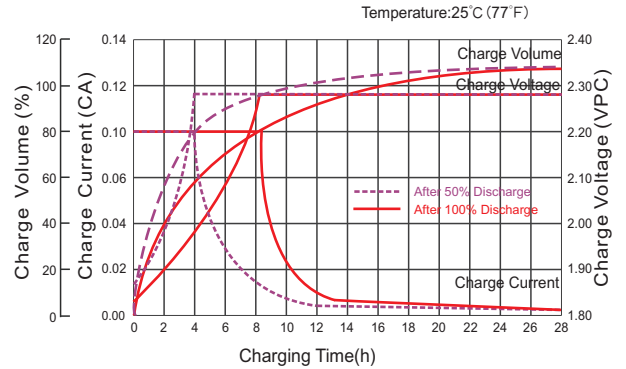
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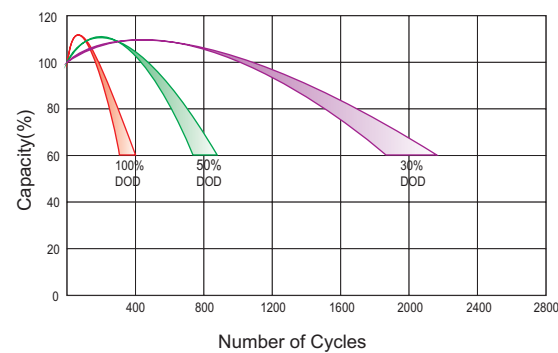
## Discharge Characteristics Curve



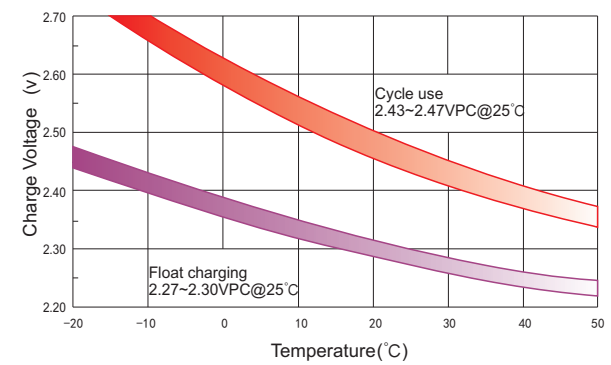
## Charge Characteristic Curve For Standby Use



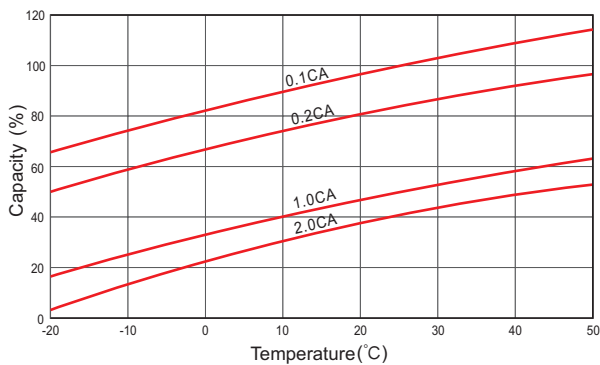
## Cycle Life In Relation To Depth Of Discharge



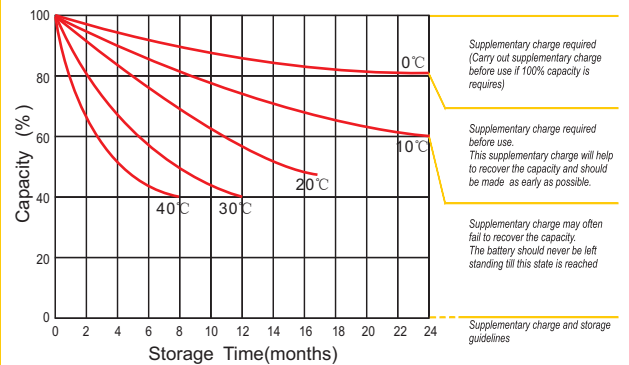
## Relationship Between Charging Voltage And Temperature



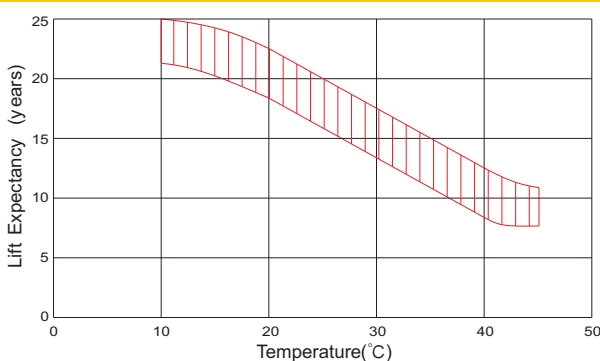
## Temperature Effects On Capacity



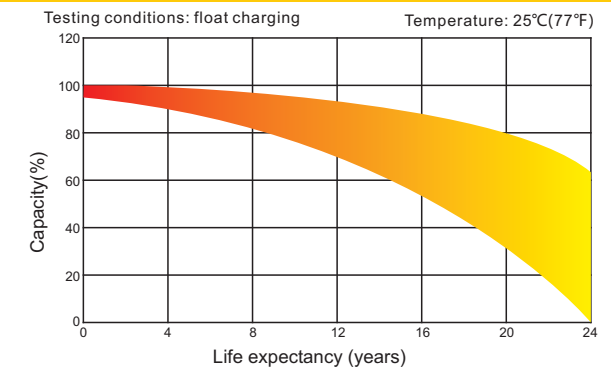
## Storage Characteristics



## Effect Of Temperature On Long Term Life



## Charge Characteristic Curve For Standby Use



For Battery Sales + EPA Battery Recycling and AC / DC Power Services, please contact:  
**Moore & Moore Solutions, Inc.**  
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