



RL2-1800A(2V1800Ah)

Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	1800Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 92.0 Kg (Tolerance ± 1%)
Internal Resistance	Approx. 0.38 mΩ
Terminal	F10(M8)
Max. Discharge Current	6500A (5 sec)
Short Circuit Current	12000A
Design Life	20 years (Float charging)
Recommended Maximum Charging Current	360 A
Reference Capacity	C1 1060.0AH C3 1395.6AH C5 1575.0AH C10 1800.0AH
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

Length	355±2mm (14.0 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	1759	1060	639.2	492.0	392.5	330.6	228.0	191.8
1.67V	1720	1040	629.8	485.5	387.6	326.8	225.8	190.0
1.70V	1669	1014	617.4	476.8	381.1	321.7	222.7	187.5
1.75V	1602	980	600.9	465.2	372.5	315.0	218.6	184.3
1.80V	1515	935.5	579.3	450.0	361.2	306.0	213.2	180.0
1.85V	1405	877.9	551.1	430.1	346.3	294.3	206.1	174.4

Constant Power Discharge Characteristics : WPC (25°C)

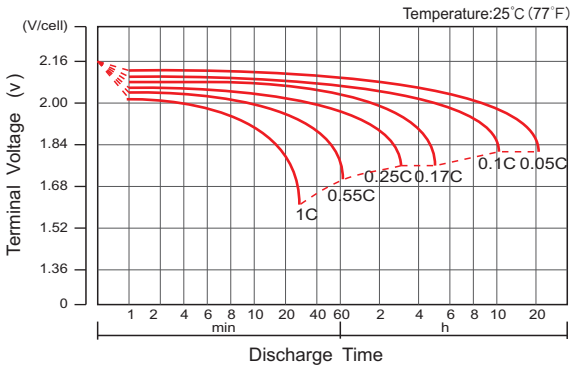
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR
1.60V	3288	2009	1221	944.6	756.6	645.7	448.3	377.6
1.67V	3250	1986	1210	937.0	751.0	640.2	444.7	374.7
1.70V	3164	1942	1189	922.2	740.0	631.1	438.9	370.3
1.75V	3053	1886	1163	903.3	725.7	619.0	431.4	364.3
1.80V	2902	1809	1125	876.9	706.1	602.8	421.2	356.3
1.85V	2709	1707	1075	841.4	679.2	581.1	407.8	345.6

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

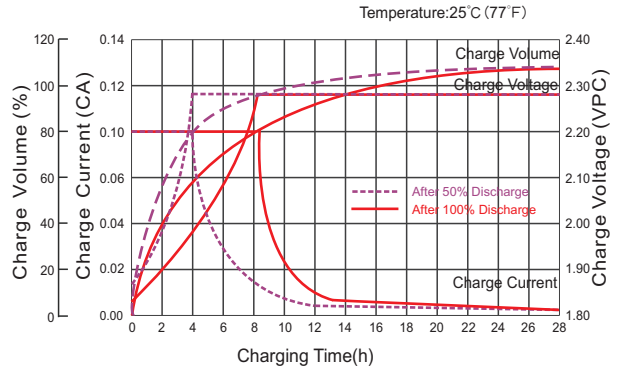
RL2-1800A (2V1800Ah)



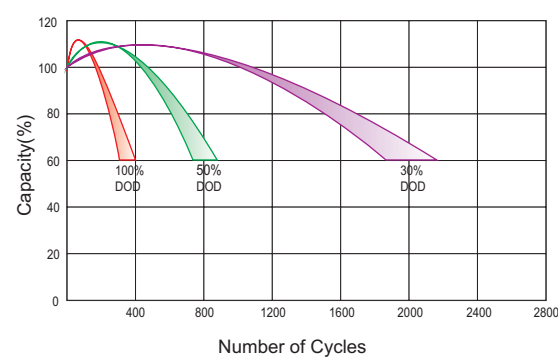
Discharge Characteristics Curve



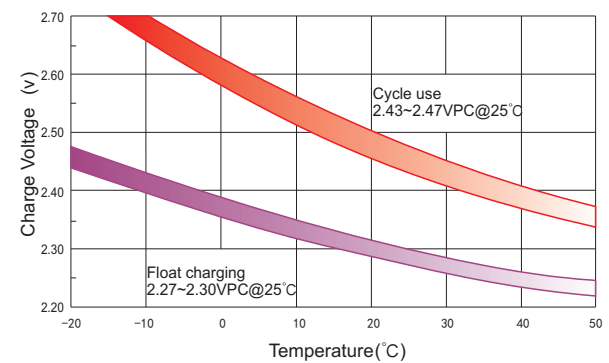
Charge Characteristic Curve For Standby Use



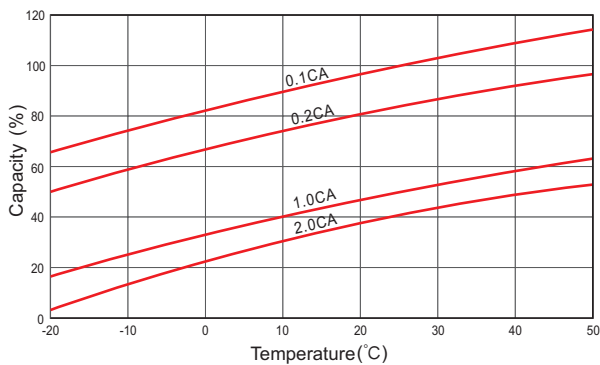
Cycle Life In Relation To Depth Of Discharge



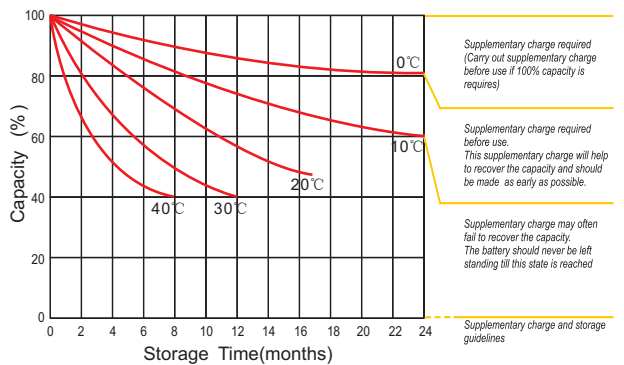
Relationship Between Charging Voltage And Temperature



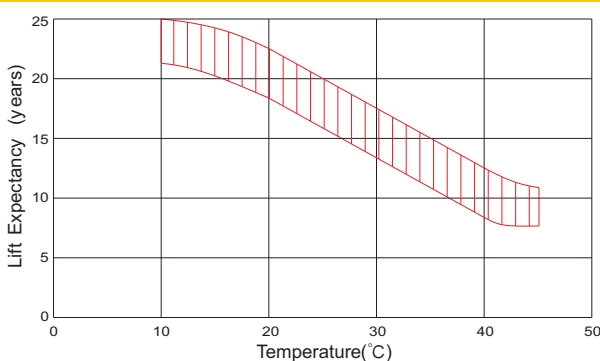
Temperature Effects On Capacity



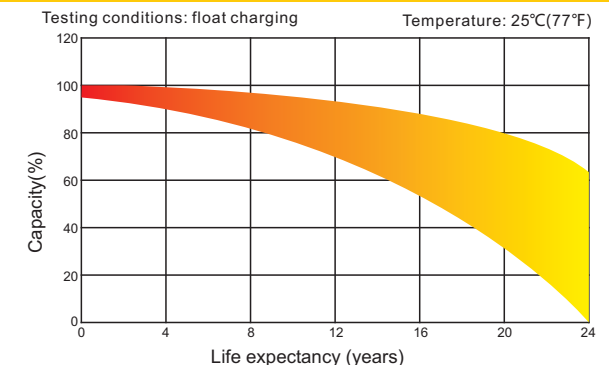
Storage Characteristics



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:

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