



RL 21500G (2V1500Ah)

RL21500G is GEL standby battery with 18~20 years floating design life time .The solid Gel protects no way to suffer electrolyte stratification and ensure mild corrosion, its special separator eradicates infection between plates to prevent short circuit. it offers extra-durable performance under extreme temperature.



Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	1500Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 96.0 Kg
Max. Discharge Current	6000 A (5 sec)
Internal Resistance	Approx. 0.75 mΩ
Operating Temperature Range	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	2.27 to 2.3 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	300 A
Equalization and Cycle Service	2.37 to 2.4 VDC/unit Average at 25°C
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Thread insert & Bolt (F10)
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



MH28539



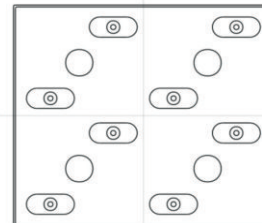
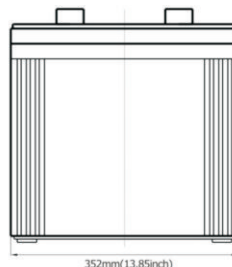
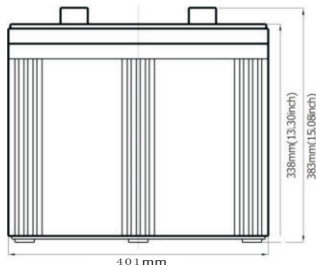
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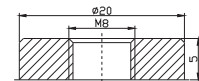
ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 401(L)×352(W)×338(H)



Terminal F10



Constant Current Discharge Characteristics : A(25°C)

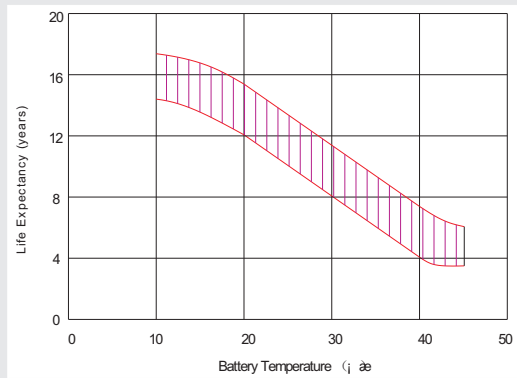
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.60V	1833	1419	913.4	543.0	404.4	322.4	271.5	228.0	184.1	153.8	79.23
1.65V	1743	1363	873.8	523.2	387.4	311.1	260.2	222.5	175.8	148.3	76.40
1.70V	1625	1285	856.9	514.7	378.9	308.2	257.3	217.0	173.1	145.6	74.98
1.75V	1443	1142	789.0	486.4	359.1	291.3	246.0	206.0	167.6	142.8	73.57
1.80V	1242	1053	743.7	463.8	345.0	288.4	237.5	203.3	164.8	137.4	70.74
1.85V	1050	948	687.2	438.3	328.0	265.8	226.2	192.3	156.6	131.9	67.91

Constant Power Discharge Characteristics : W(25°C)

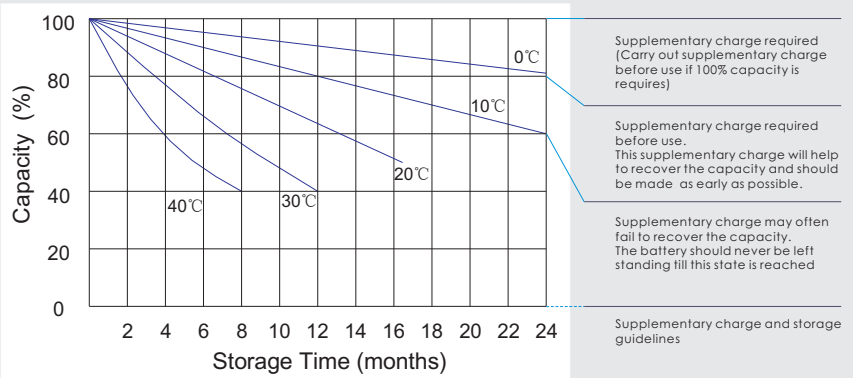
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.60V	3209	2524	1632	981.3	735.3	591.0	500.5	431.3	343.4	291.2	150.0
1.65V	3125	2510	1626	967.1	732.4	585.4	494.9	425.8	340.6	288.4	148.6
1.70V	2952	2335	1575	953.0	709.8	576.9	489.2	417.6	335.1	285.7	147.1
1.75V	2629	2103	1471	910.6	684.4	557.1	469.4	398.3	326.9	277.5	142.9
1.80V	2276	1939	1386	871.0	656.1	540.1	455.3	390.1	315.9	269.2	138.6
1.85V	1941	1748	1278	820.1	625.0	497.7	435.5	368.1	302.2	261.0	134.4

All mentioned values are average values.

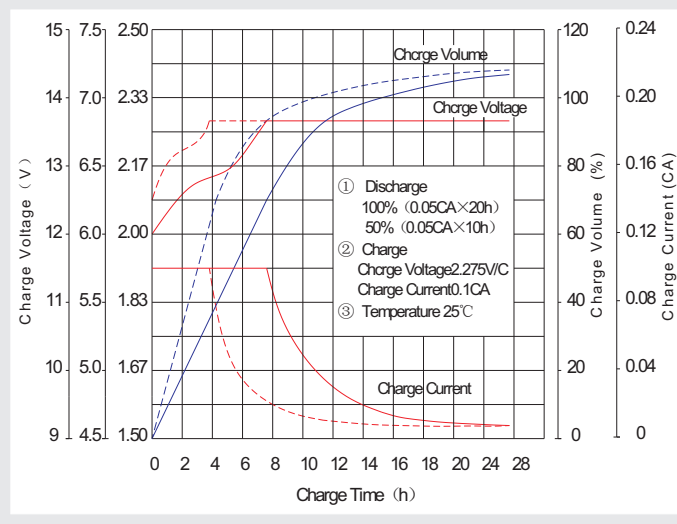
Effect of temperature on long term float life



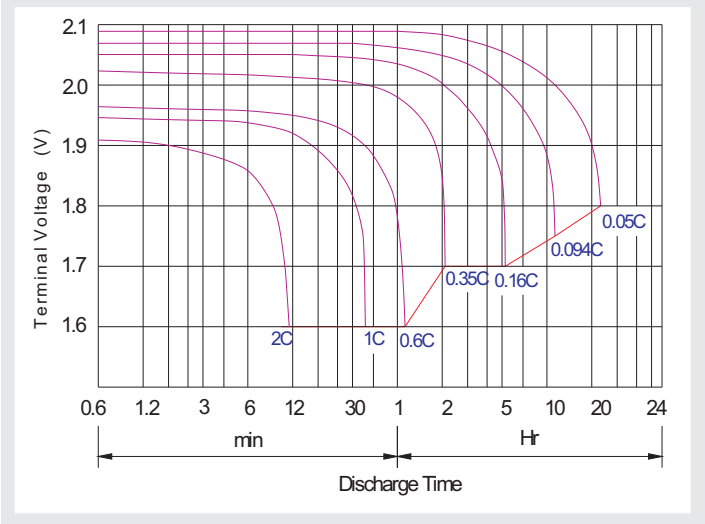
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Maintenance & Cautions

Float Service:
※ Every month, recommend inspection every battery voltage.
※ Every three months, recommend equalization charge for one time.
Equalization charge method:
Discharge: 100% rate capacity discharge.
Charge: Max. current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24h.
※ Effect of temperature on float charge voltage: -3mV/°C/Cell.
※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h+2.40~2.45V,24h,Max. Current 0.2CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h