



RA12-200G (12V200Ah)

RA12-200G is GEL Standby battery with 10 + 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	6
Voltage Per Unit	12
Capacity	200Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 60.0 Kg
Max. Discharge Current	2000 A (5 sec)
Internal Resistance	Approx. 6 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	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	40 A
Equalization and Cycle Service	14.2 to 14.4 VDC/unit Average at 25°C
Self Discharge	RITAR 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	Terminal F12/F16
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



MH28539



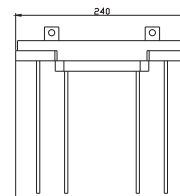
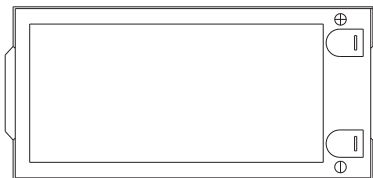
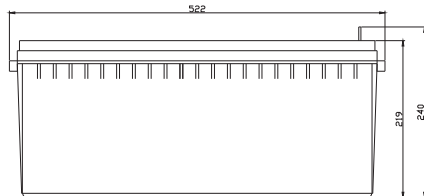
G4M20206-0910-E-16



ISO9001:2000 Certificate

Dimensions

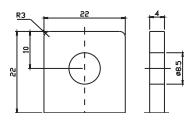
Unit: mm Dimension: 522(L)×240(W)×219(H)



Terminal F12



Terminal F16



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	657.04	470.82	342.58	215.05	121.55	68.047	48.807	40.392	31.790	23.477	19.851	10.498
10.0V	639.48	447.98	335.55	211.50	120.99	67.535	48.620	40.205	31.603	23.286	19.660	10.307
10.2V	602.58	432.17	330.28	209.63	119.87	67.024	48.246	40.018	31.416	23.095	19.469	10.116
10.5V	541.09	398.79	314.47	204.39	118.75	66.512	48.059	39.644	31.042	22.905	19.278	9.9253
10.8V	488.39	363.66	289.87	195.42	115.94	65.318	46.750	38.709	30.481	22.523	19.087	9.7344
11.1V	425.15	325.01	260.01	183.07	110.14	62.419	44.693	36.839	29.172	21.568	18.515	9.1618

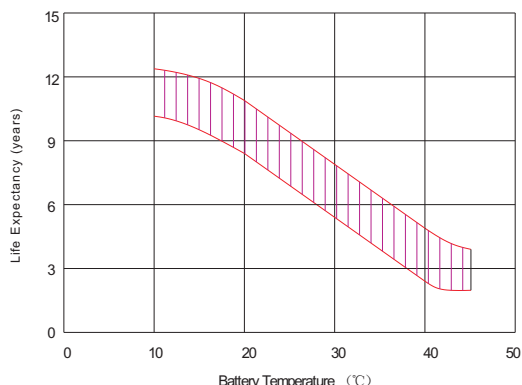
Constant Power Discharge Characteristics: W (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.6V	6257.8	4576.0	3369.2	2426.9	1390.2	782.80	563.24	466.75	368.02	272.43	223.21	117.90
10.0V	6129.9	4370.6	3299.2	2396.6	1383.4	779.73	562.12	465.63	365.77	271.28	220.92	116.76
10.2V	5786.5	4225.0	3254.4	2368.5	1373.3	772.56	558.76	463.39	364.65	269.00	219.77	115.61
10.5V	5210.6	3904.0	3103.2	2314.7	1359.9	765.40	555.39	460.02	361.28	266.71	217.49	114.47
10.8V	4687.0	3544.7	2851.2	2209.2	1326.2	754.15	541.93	447.68	355.67	260.98	215.20	113.32
11.1V	4045.9	3148.0	2546.0	2070.1	1256.6	719.35	515.00	426.36	337.72	251.83	208.33	108.74

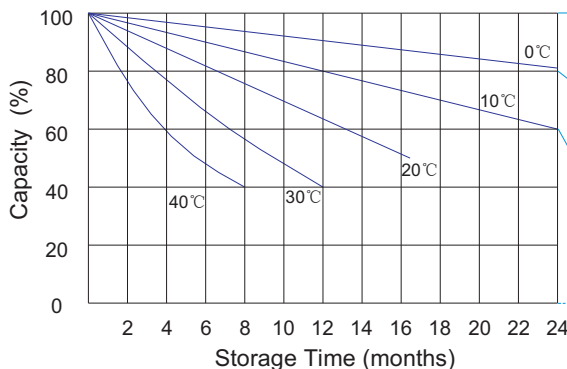
All mentioned values are average values.



Effect of temperature on long term float life



Storage characteristic



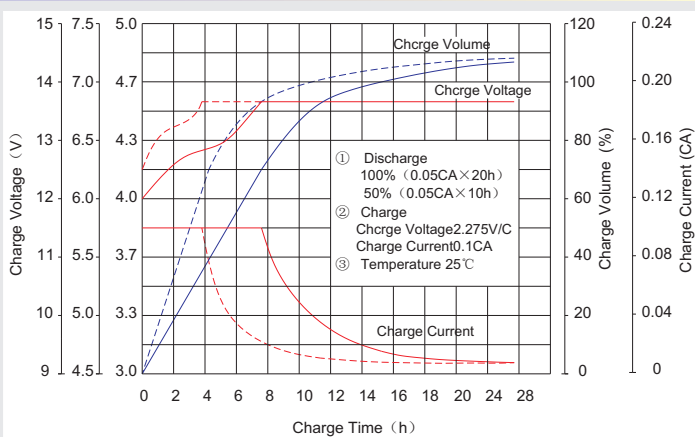
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

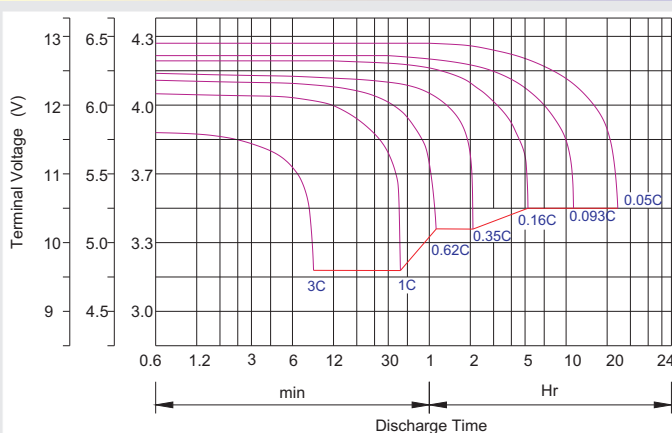
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

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 0.2CA, constant voltage 2.35-2.4V/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+2.35-2.4V/cellx24h, Max. Current 0.2CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h