

RA6-150 (6V150Ah)



RA6-150 is a general purpose battery with 10 years floating design life, meet with IEC, JIS .BS and Eurobat standard. With heavy duty grid, thickness plates, special additives, RA series battery have long and reliable standby service life. Our RA Series batteries keep high consistent for better performance in series usage.



Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	150Ah@10hr-rate to 1.75V per cell @25°C
Weight	Approx. 23.5 Kg
Max. Discharge Current	1500A (5 sec)
Internal Resistance	Approx. 2 mΩ
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
Float charging Voltage	6.8 to 6.9 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	45 A
Equalization and Cycle Service	7.3 to 7.4 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
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



MH28539



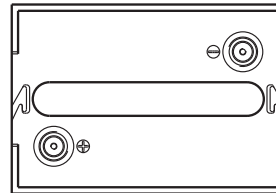
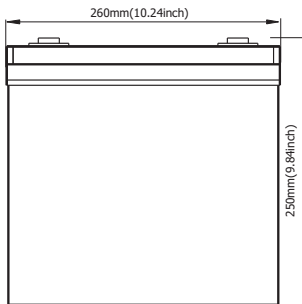
G4M20206-0910-E-16



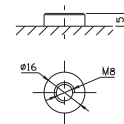
ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 260(L)×180(W)×247(H)



Terminal F12



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	470.16	336.91	266.76	167.33	97.500	54.464	39.150	32.400	26.520	18.633	15.754	8.3317
5.00V	457.59	320.57	261.29	164.56	97.050	54.054	39.000	32.250	26.364	18.481	15.603	8.1802
5.10V	431.19	309.25	257.18	163.11	96.150	53.645	38.700	32.100	26.208	18.330	15.451	8.0287
5.25V	387.19	285.37	244.87	159.03	95.250	53.235	38.550	31.800	25.896	18.178	15.300	7.8772
5.40V	360.29	260.22	225.72	152.05	93.000	52.280	37.500	31.050	25.428	17.875	15.149	7.7257
5.55V	313.63	232.57	202.46	142.44	88.350	49.959	35.850	29.550	24.336	17.118	14.694	7.2713

Constant Power Discharge Characteristics: W(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	2239	1688	1407	924.7	557.6	313.3	225.9	187.2	153.5	108.1	88.57	46.79
5.00V	2193	1612	1377	913.1	554.9	312.0	225.5	186.8	152.6	107.7	87.67	46.33
5.10V	2070	1558	1359	902.5	550.8	309.2	224.1	185.9	152.1	106.7	87.21	45.88
5.25V	1864	1440	1295	881.9	545.4	306.3	222.8	184.5	150.7	105.8	86.30	45.42
5.40V	1729	1307	1190	841.7	531.9	301.8	217.4	179.6	148.4	103.6	85.40	44.97
5.55V	1492	1161	1063	788.7	504.0	287.9	206.6	171.0	140.9	99.9	82.67	43.15

All mentioned values are average values.



Effect of temperature on long term float life



Storage characteristic



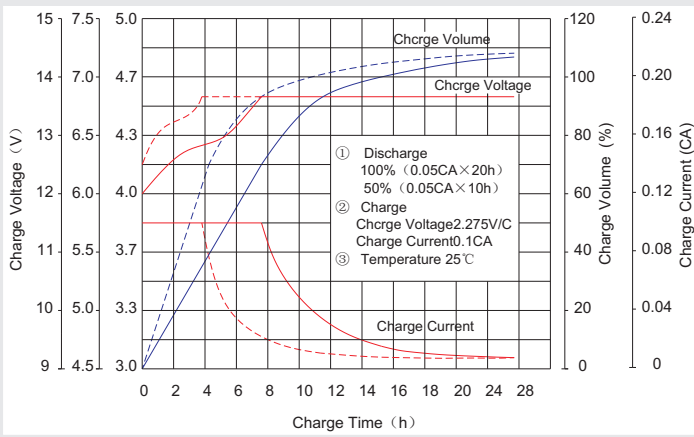
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

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

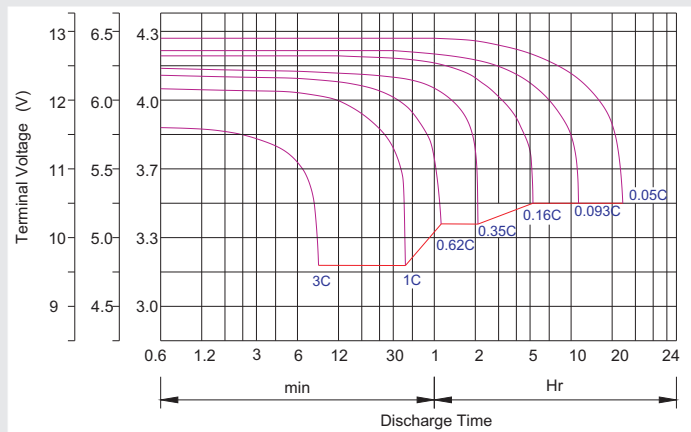
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

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

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

Charging Method:

Constant Voltage	-0.2Cx2h+2.4-2.45V/cellx24h, Max. Current 0.3CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h

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.