



# RA6-200S (6V200Ah)

RA6-200S 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



## Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	200Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 30.0 Kg
Max. Discharge Current	2000A (5 sec)
Internal Resistance	Approx. 4.0 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	60 A
Equalization and Cycle Service	7.3 to 7.4 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	Terminal F12
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



MH28539



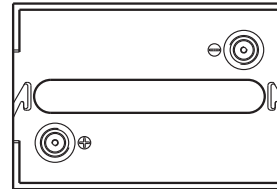
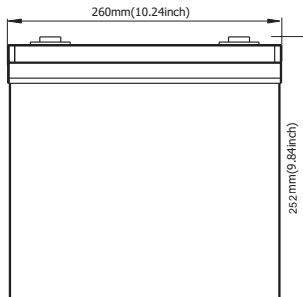
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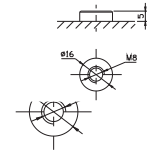
ISO9001:2000 Certificate

## Dimensions

Unit: mm Dimension: 260(L)×180(W)×252(H)



Terminal F12  
Terminal F12



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

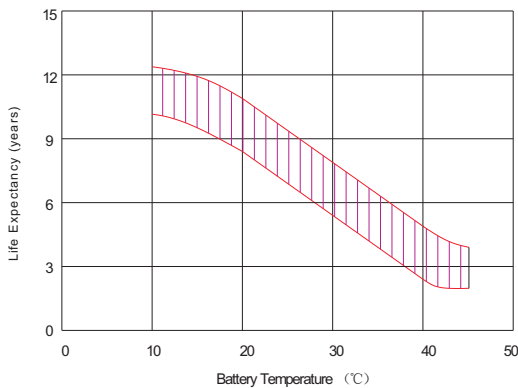
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	545.1	408.3	344.7	220.8	130.0	77.79	53.77	44.06	36.07	24.84	21.01	11.55
5.00V	529.4	388.5	337.6	217.2	129.4	77.20	53.56	43.86	35.86	24.64	20.80	11.34
5.10V	513.7	374.8	332.3	215.3	128.2	76.62	53.15	43.66	35.64	24.44	20.60	11.13
5.25V	461.3	345.9	316.4	209.9	127.0	76.03	52.94	43.25	35.22	24.24	20.40	10.92
5.40V	416.3	315.4	291.7	200.7	124.0	74.67	51.50	42.23	34.58	23.83	20.20	10.71
5.55V	355.5	281.9	261.6	188.0	117.8	71.35	49.23	40.19	33.10	22.82	19.59	10.08

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

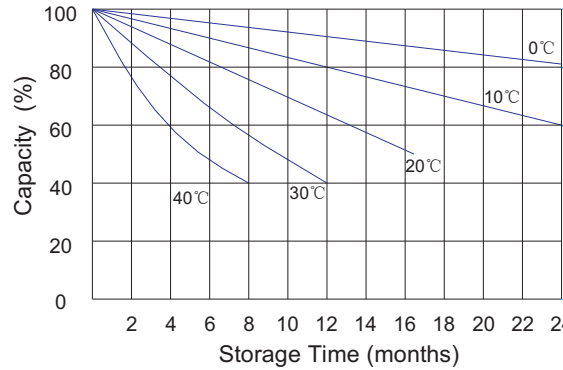
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	2819	2174	1896	1259	751.1	458.4	319.9	262.6	215.1	148.3	125.5	69.26
5.00V	2764	2108	1865	1243	749.3	456.0	320.0	262.3	214.6	147.6	124.7	68.06
5.10V	2732	2052	1844	1234	743.5	453.3	318.6	261.7	213.9	146.6	123.6	66.80
5.25V	2487	1911	1759	1206	736.8	450.0	317.4	259.3	211.3	145.4	122.4	65.54
5.40V	2265	1761	1626	1156	723.2	444.2	308.7	253.4	207.5	143.0	121.2	64.28
5.55V	1990	1593	1464	1086	692.3	427.7	295.4	241.1	198.6	136.9	117.6	60.50

All mentioned values are average values.

### Effect of temperature on long term float life



### Storage characteristic



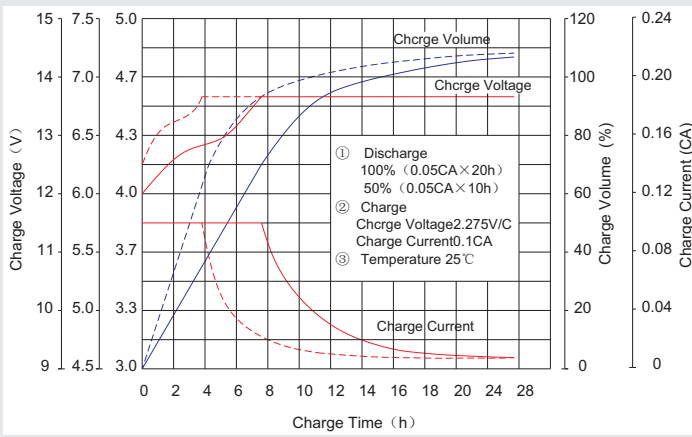
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

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

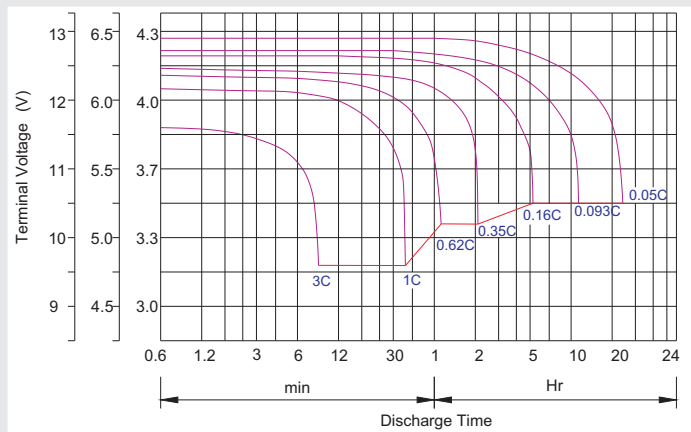
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

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.