



# RA12-260A (12V260Ah)

RA series is a general purpose battery with 10 years design life in float service. It meets with IEC, JIS and BS standards. With up-dated AGM valve regulated technology and high purity raw materials, the RA series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security system applications.



## Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	260Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx.72.5 Kg ( Tolerance ± 1.5%)
Max. Discharge Current	2600A (5 sec)
Internal Resistance	Approx. 3.5 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	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current	78 A
Equalization and Cycle Service	14.6 to 14.8 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 F14
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



MH28539



G4M20206-0910-E-16



CERTIFICATE

Postcode: 421001

is in conformity with

ISO 14001:2004 Standard



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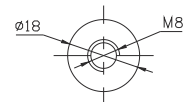
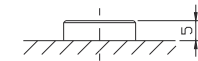
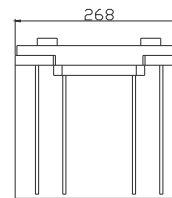
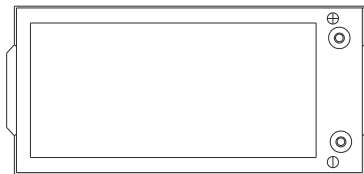
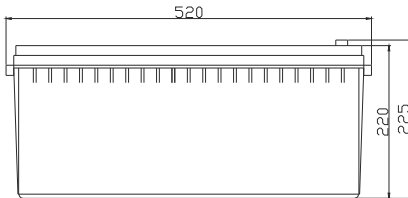
is in conformity with

OHSAS 18001:1999 Standard

## Dimensions

Unit: mm Dimension: 520(L) × 268(W) × 220(H)

Terminal F14



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

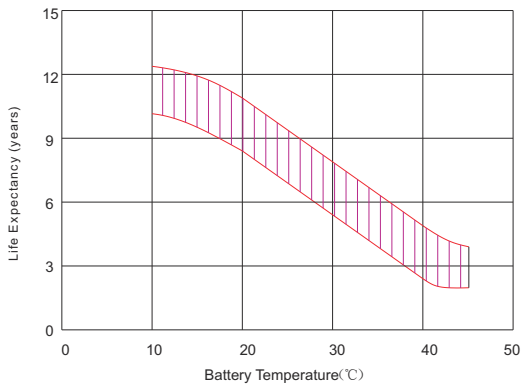
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	670.8	517.7	424.5	257.3	159.9	98.7	67.07	54.08	44.89	30.02	27.06	14.32
10.0V	651.5	492.6	415.8	254.0	157.7	96.7	65.83	53.31	44.49	29.90	26.79	14.06
10.2V	632.1	475.2	409.3	250.1	156.2	95.7	65.24	52.78	44.20	29.63	26.53	13.79
10.5V	567.6	438.5	389.7	243.2	154.3	94.4	64.66	52.00	43.83	29.37	26.26	13.52
10.8V	512.3	399.9	359.2	235.2	152.2	93.7	63.91	50.22	43.62	29.25	26.02	13.38
11.1V	437.5	357.4	322.2	226.3	148.6	89.9	62.66	49.50	43.30	29.01	25.72	12.84

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

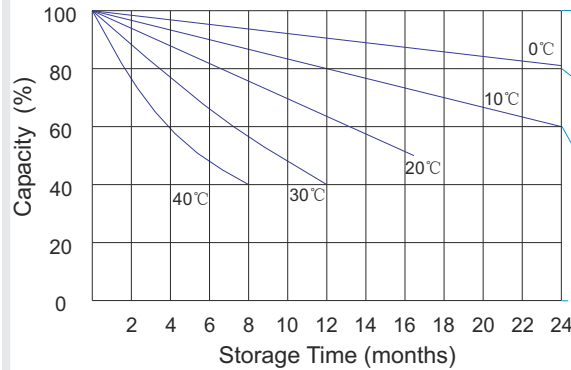
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	6939	5514	4670	2945	1852	1157	789.6	647.3	537.8	354.1	319.58	169.9
10.0V	6802	5345	4595	2915	1836	1142	777.9	638.2	533.0	352.7	317.06	167.0
10.2V	6724	5204	4543	2890	1825	1134	774.5	632.2	529.8	350.1	314.24	163.9
10.5V	6122	4846	4333	2831	1813	1120	768.2	623.7	525.5	347.1	311.16	160.8
10.8V	5576	4467	4005	2764	1790	1112	759.5	602.7	523.1	345.6	308.08	159.3
11.1V	4897	4039	3605	2688	1763	1070	746.8	594.0	521.2	343.2	304.73	153.6

All mentioned values are average values (Tolerance ±2%).

### Effect of temperature on long term float life



### Storage characteristic



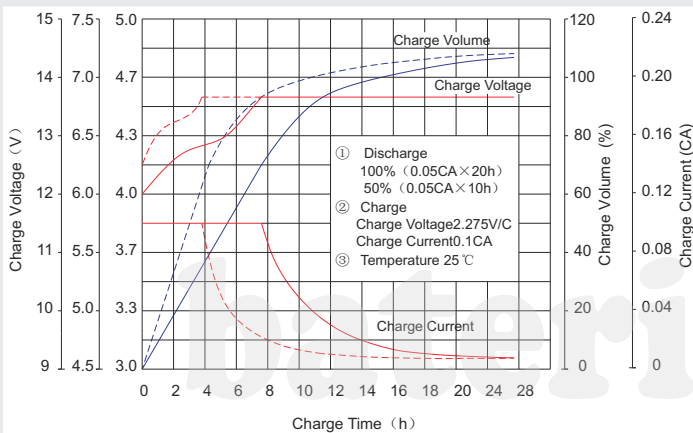
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

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

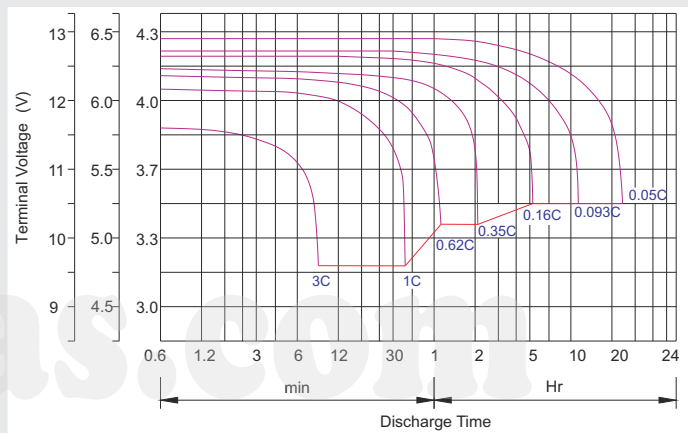
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

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 0.3C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.3Cx4h

Bolt	M5	M6	M8
Terminal	F3 F4 F13 F18 T25 T26	F8 F11 F12-1 F15	F5 F9 F10 F12 F14 F16
Torque	6~7N·m	8~10N·m	10~12N·m

### 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.