



# RA6-225 (6V225Ah)

RA6-225 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	225Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 31.0 Kg
Max. Discharge Current	2250A (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	67.5 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 F16/F14
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



MH28539



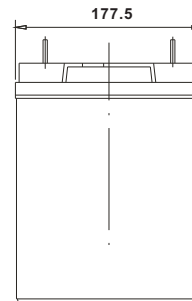
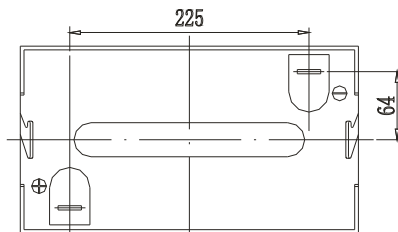
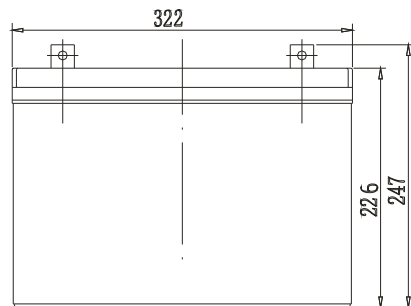
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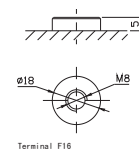
ISO9001:2000 Certificate

## Dimensions

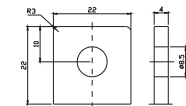
Unit: mm Dimension: 322(L)×177.5(W)×247(H)



Terminal F14



Terminal F16



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

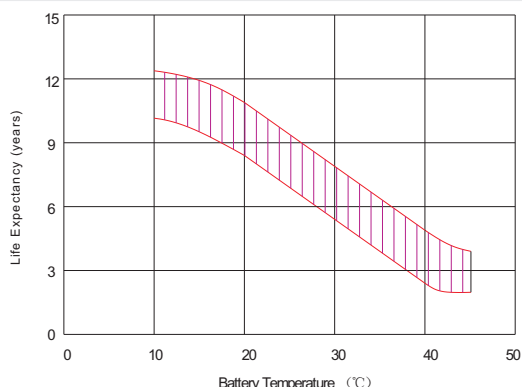
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	613.26	459.37	387.77	248.43	146.25	87.512	60.487	49.572	40.576	27.949	23.632	12.997
5.00V	595.53	437.09	379.82	244.32	145.58	86.854	60.255	49.343	40.337	27.722	23.404	12.761
5.10V	577.88	421.66	373.85	242.16	144.23	86.196	59.792	49.113	40.098	27.495	23.177	12.525
5.25V	518.91	389.10	355.96	236.11	142.88	85.538	59.560	48.654	39.621	27.267	22.950	12.288
5.40V	468.37	354.82	328.12	225.74	139.50	84.003	57.938	47.507	38.905	26.813	22.723	12.052
5.55V	399.92	317.11	294.31	211.49	132.53	80.274	55.388	45.212	37.234	25.677	22.041	11.343

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

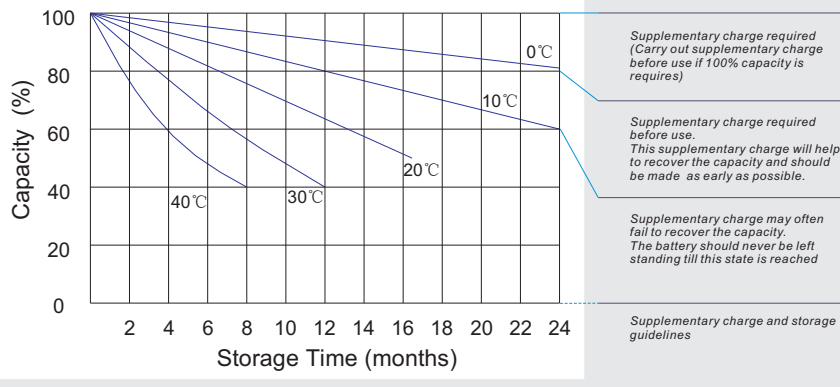
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	3172	2446	2133	1416	845.0	515.7	359.9	295.4	242.0	166.9	141.2	77.92
5.00V	3109	2371	2099	1399	843.0	513.0	360.0	295.1	241.4	166.1	140.3	76.57
5.10V	3074	2309	2075	1389	836.5	509.9	358.5	294.4	240.6	165.0	139.1	75.15
5.25V	2798	2150	1979	1356	828.9	506.2	357.1	291.7	237.7	163.6	137.7	73.73
5.40V	2548	1982	1829	1300	813.6	499.8	347.3	285.0	233.4	160.9	136.3	72.31
5.55V	2238	1792	1647	1221	778.8	481.2	332.3	271.3	223.4	154.1	132.2	68.06

All mentioned values are average values.

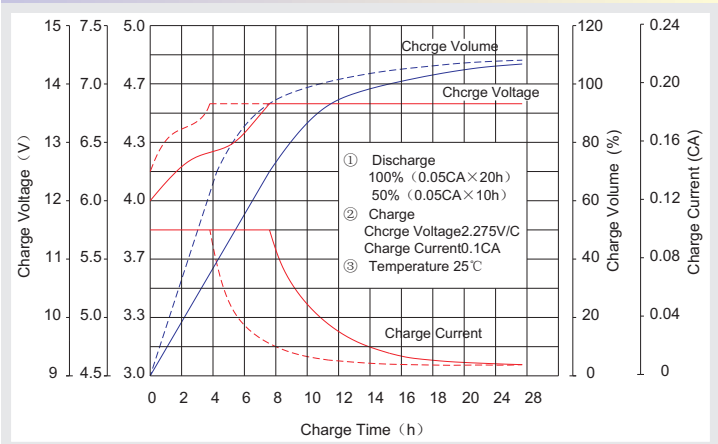
### Effect of temperature on long term float life



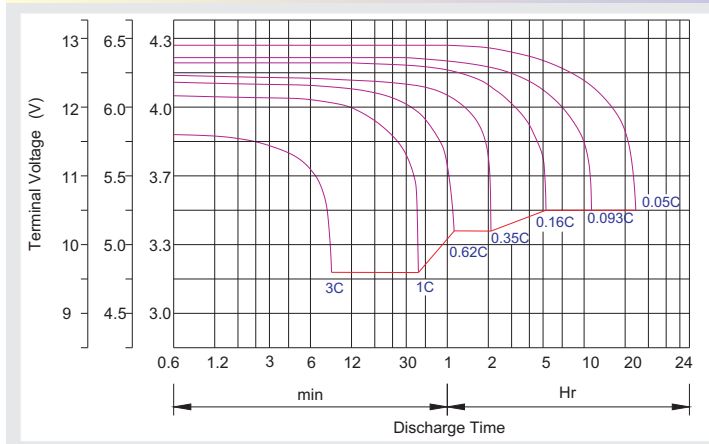
### Storage characteristic



### 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

**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

<b>Float Service:</b>
※ 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.