



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 1.80V 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 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



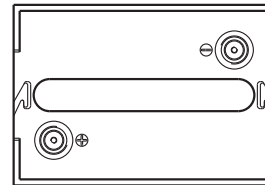
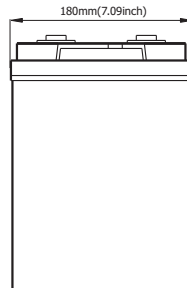
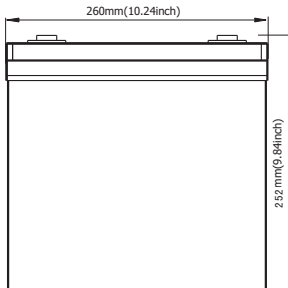
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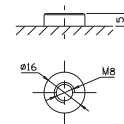
ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 260(L)×180(W)×247(252)(H)



Terminal F12



Constant Current Discharge Characteristics: A (25°C)

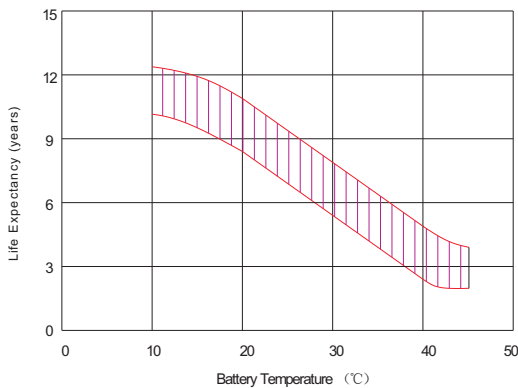
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	432.9	323.3	266.7	169.0	97.50	58.34	40.32	33.05	27.05	18.63	15.75	8.66
5.00V	420.4	307.6	261.2	166.2	97.05	57.90	40.17	32.90	26.89	18.48	15.60	8.51
5.10V	407.9	296.7	257.1	164.7	96.15	57.46	39.86	32.74	26.73	18.33	15.45	8.35
5.25V	366.3	273.8	244.8	160.6	95.25	57.03	39.71	32.44	26.41	18.18	15.30	8.19
5.40V	330.6	249.7	225.7	153.6	93.00	56.00	38.63	31.67	25.94	17.88	15.15	8.03
5.55V	282.3	223.1	202.4	143.9	88.35	53.52	36.93	30.14	24.82	17.12	14.69	7.56

Constant Power Discharge Characteristics: W(25°C)

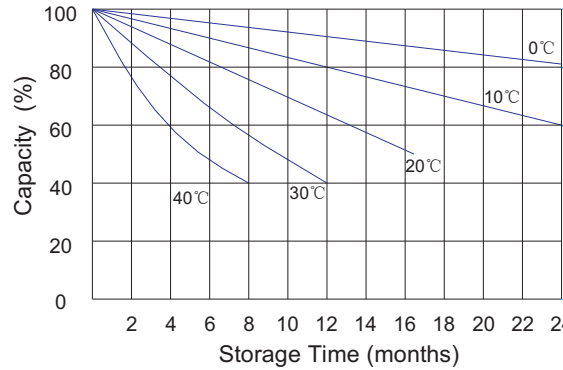
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	2239	1721	1467	963.3	563.3	343.8	239.9	197.0	161.4	111.2	94.13	51.95
5.00V	2195	1669	1443	951.5	562.0	342.0	240.0	196.7	160.9	110.7	93.54	51.04
5.10V	2170	1625	1427	944.8	557.6	339.9	239.0	196.3	160.4	110.0	92.71	50.10
5.25V	1975	1513	1361	922.8	552.6	337.5	238.0	194.5	158.5	109.1	91.80	49.15
5.40V	1799	1394	1258	884.6	542.4	333.2	231.6	190.0	155.6	107.3	90.89	48.21
5.55V	1580	1261	1132	830.8	519.2	320.8	221.6	180.8	148.9	102.7	88.16	45.37

All mentioned values are average values.

Effect of temperature on long term float life



Storage characteristic



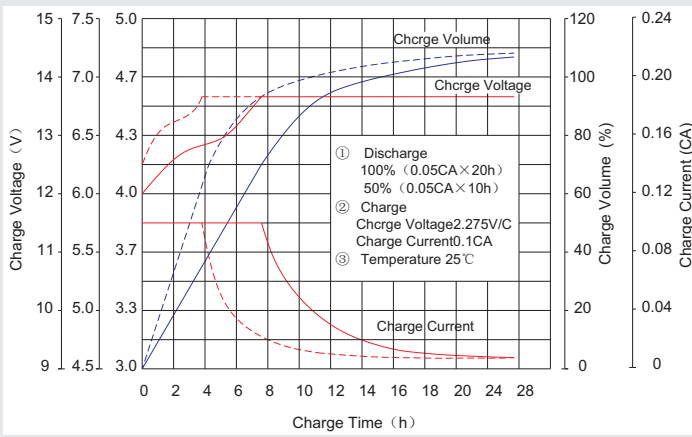
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

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

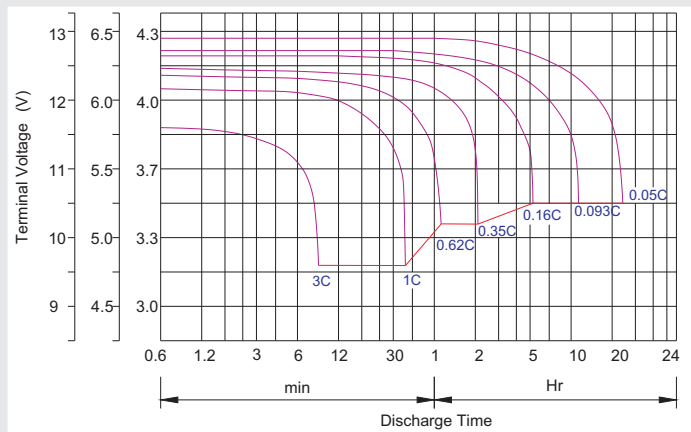
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

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.