



RA6-150G (6V150Ah)

RA6-150G is GEL Standby battery with 10 + years floating design life time .The solid Gel protects no way to suffer electrolyte stratification and ensure mild corrosion, its special separator eradicates infection between plates to prevent short circuit. it offers extra-durable performance under extreme temperature.



Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	150Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 23.5 Kg
Max. Discharge Current	1500 A (5 sec)
Internal Resistance	Approx. 3 mΩ
Operating Temperature Range	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°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	30 A
Equalization and Cycle Service	7.1 to 7.2 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	Faston F12
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



MH28539



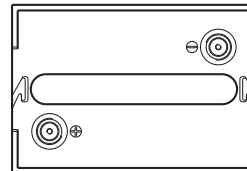
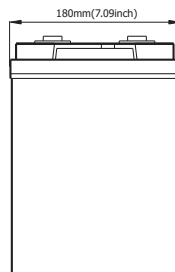
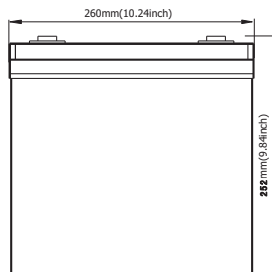
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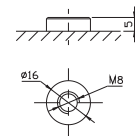
ISO9001:2000 Certificate

Dimensions

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



Terminal F12



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	376.1	269.1	216.0	144.8	88.26	52.81	36.50	29.92	24.49	16.87	14.26	7.844
5.00V	365.2	256.1	211.6	142.5	87.85	52.42	36.36	29.78	24.34	16.73	14.13	7.702
5.10V	354.4	247.0	208.3	142.6	87.04	52.02	36.08	29.64	24.20	16.59	13.99	7.559
5.25V	322.0	230.7	200.6	140.4	86.22	51.62	35.94	29.36	23.91	16.46	13.85	7.417
5.40V	294.0	212.8	187.1	135.5	84.19	50.70	34.97	28.67	23.48	16.18	13.71	7.274
5.55V	253.9	192.4	169.8	128.2	79.98	48.45	33.43	27.29	22.47	15.50	13.30	6.846

Constant Power Discharge Characteristics: W (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	1945	1433	1188	825.2	509.9	311.2	217.2	178.3	146.1	100.7	85.22	47.03
5.00V	1907	1389	1169	815.8	508.7	309.6	217.3	178.1	145.7	100.2	84.68	46.21
5.10V	1885	1352	1156	817.9	504.8	307.7	216.3	177.7	145.2	99.56	83.93	45.36
5.25V	1736	1274	1116	806.7	500.3	305.5	215.5	176.0	143.5	98.74	83.11	44.50
5.40V	1600	1189	1043	780.7	491.0	301.6	209.6	172.0	140.9	97.09	82.28	43.64
5.55V	1421	1087	949.8	740.3	470.0	290.4	200.6	163.7	134.8	92.98	79.81	41.08

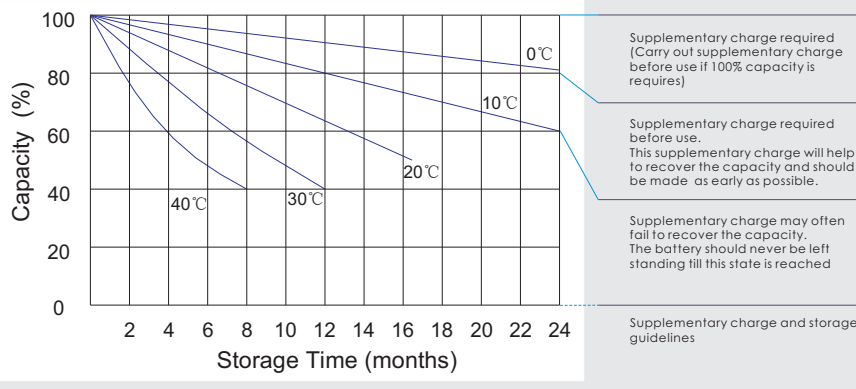
All mentioned values are average values.



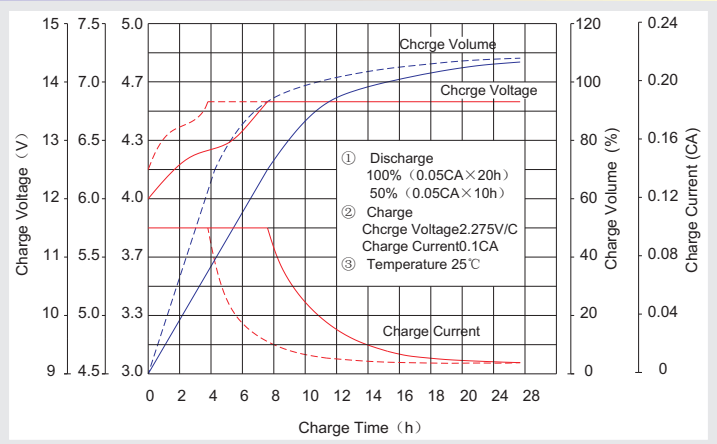
Effect of temperature on long term float life



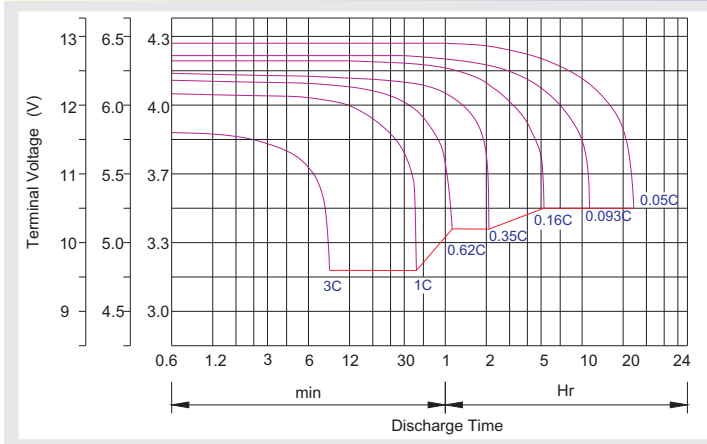
Storage characteristic



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+2.35-2.4V/cellx24h, Max. Current 0.2CA
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 0.2CA, constant voltage 2.35-2.4V/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.