



# RA6-225SG (6V225Ah)

RA6-225SG 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	225Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 32 Kg
Max. Discharge Current	2250 A (5 sec)
Internal Resistance	Approx. 6 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	45 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 F14
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



MH28539



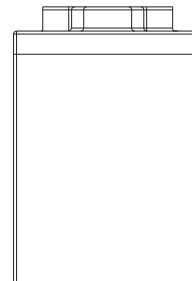
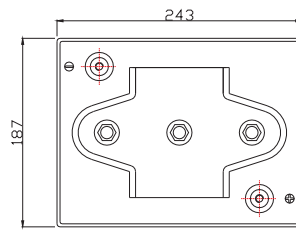
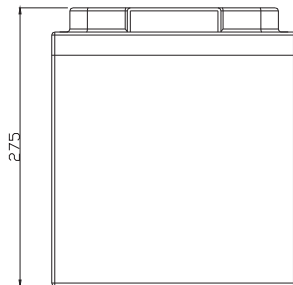
G4M20206-0910-E-16



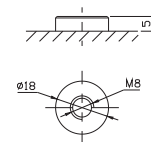
ISO9001:2000 Certificate

## Dimensions

Unit: mm Dimension: 243(L)×187.5(W)×275(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
4.80V	564.1	403.7	324.1	217.2	132.4	79.22	54.76	44.88	36.73	25.30	21.39	11.77
5.00V	547.8	384.1	317.4	213.7	131.8	78.62	54.55	44.67	36.52	25.10	21.19	11.55
5.10V	531.6	370.5	312.4	213.9	130.6	78.03	54.13	44.46	36.30	24.89	20.98	11.34
5.25V	482.9	346.0	301.0	210.6	129.3	77.43	53.92	44.04	35.87	24.68	20.78	11.12
5.40V	441.0	319.2	280.7	203.3	126.3	76.04	52.45	43.01	35.22	24.27	20.57	10.91
5.55V	380.8	288.6	254.6	192.3	120.0	72.67	50.14	40.93	33.71	23.24	19.95	10.27

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

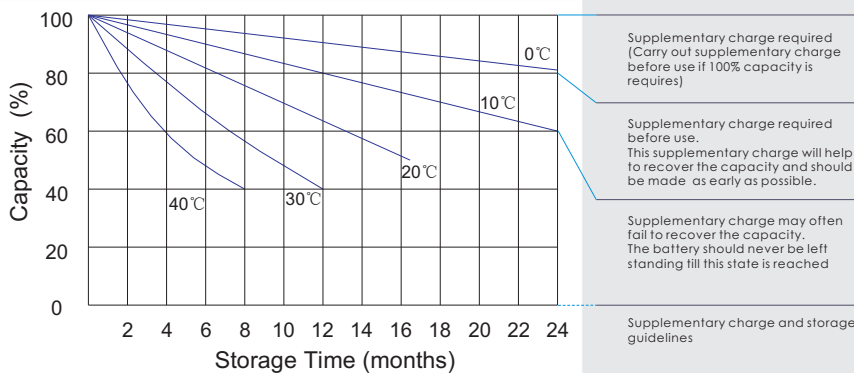
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	2917	2150	1782	1238	764.9	466.9	325.8	267.5	219.1	151.1	127.8	70.54
5.00V	2860	2084	1754	1224	763.1	464.4	325.9	267.1	218.5	150.3	127.0	69.32
5.10V	2827	2029	1734	1227	757.2	461.6	324.5	266.5	217.8	149.3	125.9	68.03
5.25V	2604	1912	1673	1210	750.4	458.2	323.2	264.0	215.2	148.1	124.7	66.75
5.40V	2399	1783	1565	1171	736.5	452.4	314.4	258.0	211.3	145.6	123.4	65.47
5.55V	2132	1631	1425	1111	705.0	435.6	300.8	245.6	202.2	139.5	119.7	61.61

All mentioned values are average values.

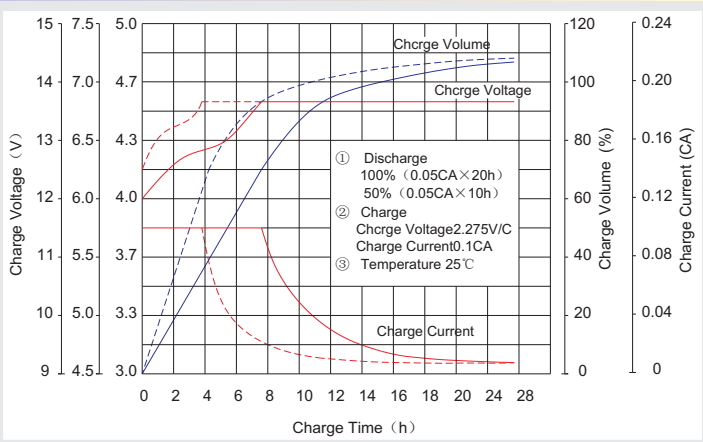
### Effect of temperature on long term float life



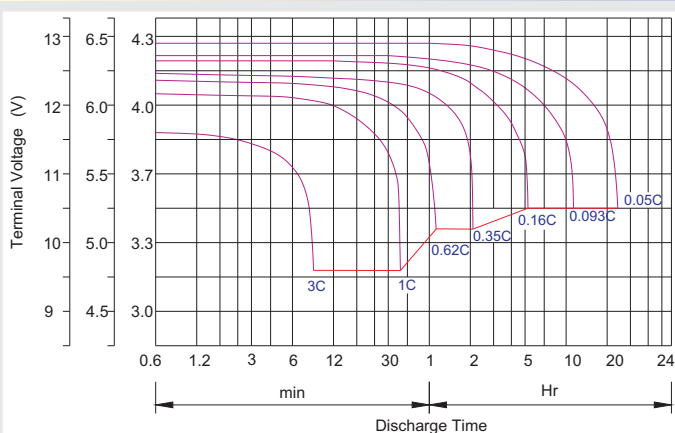
### Storage characteristic



### 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

### 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 0.2CA, 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.

**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