



RA6-180G (6V180Ah)

RA6-180G 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	180Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 26.5 Kg
Max. Discharge Current	1800 A (5 sec)
Internal Resistance	Approx. 4.5 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	36 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



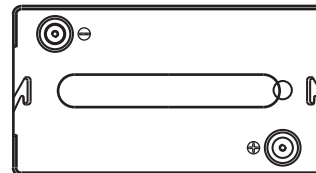
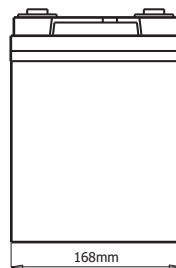
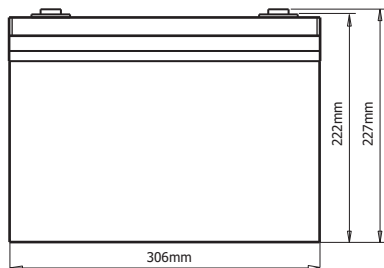
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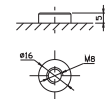
ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 306(L)×168(W)×222(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	451.3	322.9	259.2	173.7	105.9	63.38	43.80	35.90	29.39	20.24	17.11	9.413
5.00V	438.2	307.3	253.9	171.0	105.4	62.90	43.64	35.73	29.21	20.08	16.95	9.242
5.10V	425.2	296.4	249.9	171.1	104.4	62.42	43.30	35.57	29.04	19.91	16.79	9.071
5.25V	386.3	276.8	240.8	168.5	103.5	61.95	43.13	35.24	28.69	19.75	16.62	8.900
5.40V	352.8	255.4	224.5	162.7	101.0	60.83	41.96	34.40	28.18	19.42	16.46	8.729
5.55V	304.7	230.9	203.7	153.8	95.97	58.13	40.11	32.74	26.97	18.60	15.96	8.215

Constant Power Discharge Characteristics: W (25°C)

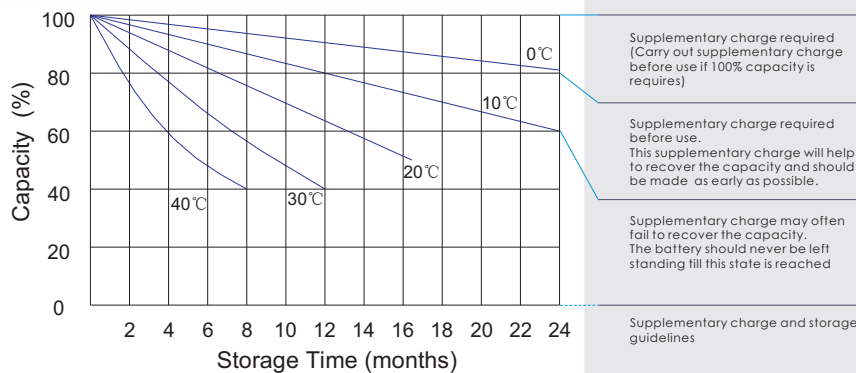
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	2334	1720	1426	990.3	611.9	373.5	260.6	214.0	175.3	120.8	102.3	56.43
5.00V	2288	1667	1403	978.9	610.5	371.5	260.7	213.7	174.8	120.3	101.6	55.45
5.10V	2262	1623	1387	981.5	605.8	369.3	259.6	213.2	174.2	119.5	100.7	54.43
5.25V	2083	1529	1339	968.0	600.3	366.6	258.6	211.2	172.2	118.5	99.73	53.40
5.40V	1919	1426	1252	936.9	589.2	361.9	251.5	206.4	169.1	116.5	98.74	52.37
5.55V	1705	1304	1140	888.4	564.0	348.5	240.7	196.5	161.8	111.6	95.78	49.29

All mentioned values are average values.

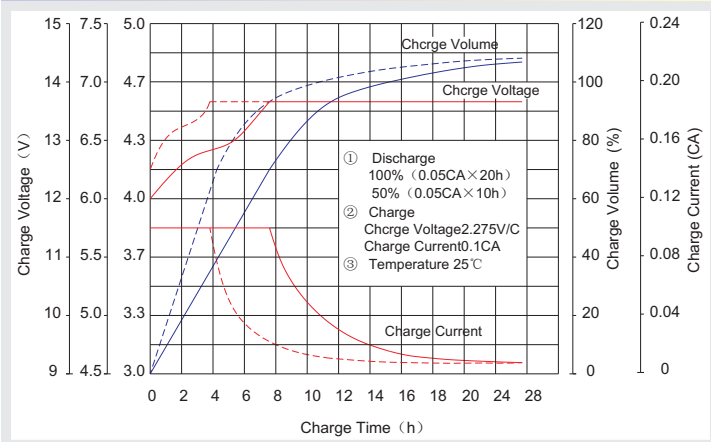
Effect of temperature on long term float life



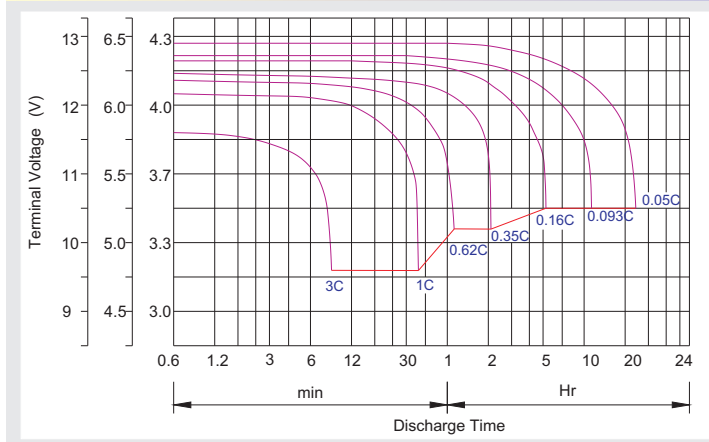
Storage characteristic



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

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.

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