RA6-225SH (6V225Ah) (853w/cell)

RA6-225SH is high rate series with 10 years floating design life, especially designed for high rate load discharge applications . By using strong grid and specific paste plate to insure high performance during big current discharge requirement when electricity is off ., High Rate series offering extra-durable stable performance under high rate discharge.

RITAR®

Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	853W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 33.0 Kg
Max. Discharge Current	2250A (5 sec)
Internal Resistance	Approx. 3.8 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	67.5A
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 F14
Constainer Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V2 can be available upon request.

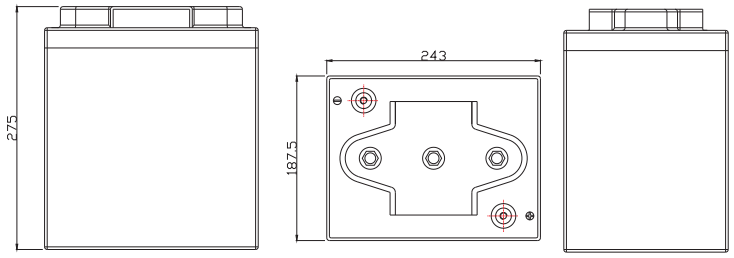
MH28539

G4M20206-0910-E-16

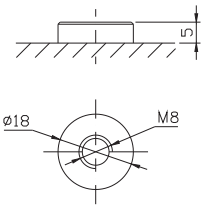
ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 243(L)×187.5(W)×275(H)



Terminal F14



Constant Current Discharge Characteristics : A(25°C)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
4.80V	773.5	682.3	587.2	479.7	372.0	265.8	148.9	118.7
5.00V	722.1	646.5	553.1	461.3	350.3	256.0	145.9	114.6
5.10V	700.0	630.9	534.9	448.0	341.0	251.6	143.4	112.5
5.25V	676.9	607.3	510.6	432.5	324.6	242.3	140.1	110.4
5.40V	647.3	583.4	479.5	418.8	314.2	232.3	136.8	108.5
5.55V	605.0	537.1	450.9	396.2	303.0	224.5	132.6	104.2

Constant Power Discharge Characteristics : W(25°C)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
4.80V	4080	3658	3154	2636	2054	1483	832.1	663.9
5.00V	3846	3512	3018	2559	1954	1442	814.2	644.7
5.10V	3755	3418	2938	2512	1915	1420	808.1	637.8
5.25V	3667	3342	2831	2436	1847	1386	803.8	634.2
5.40V	3543	3209	2701	2370	1790	1340	790.2	629.4
5.55V	3413	3039	2578	2286	1750	1300	775.6	610.7

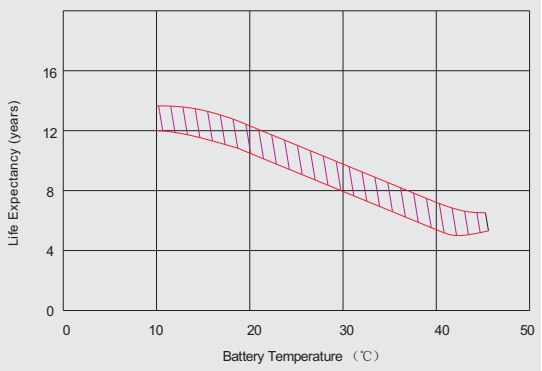
All mentioned values are average values.

RA6-225SH

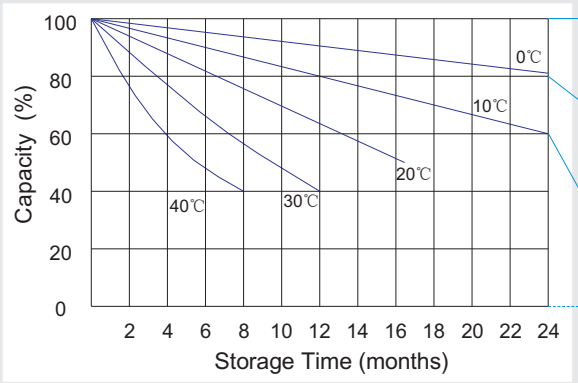
6V225Ah

RITAR®

Effect of temperature on long term float life



Storage characteristic



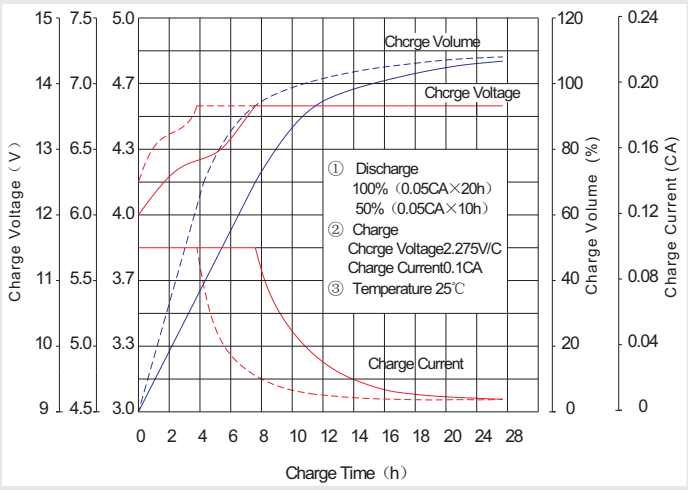
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is requires)

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

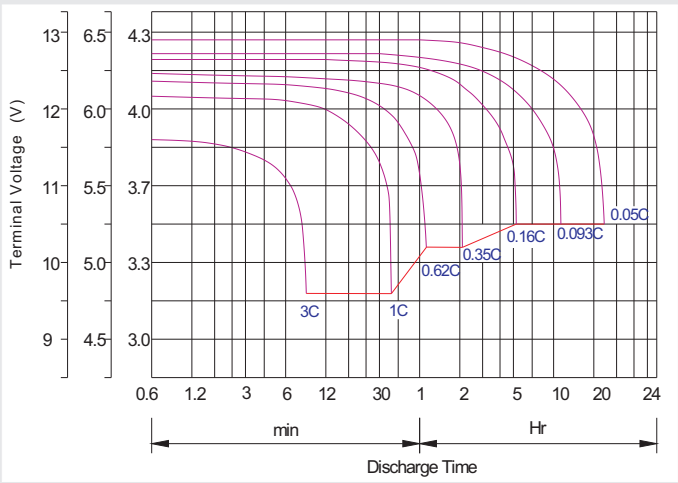
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

Battery Type		-20℃	-10℃	0℃	5℃	10℃	20℃	25℃	30℃	40℃	45℃
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 +2.4~2.5V/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/℃/Cell.

※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.

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