



RA6-225SH (6V225Ah) (850w/cell)

HR (High Rate) series is especially designed for heavy load discharge applications with 10 years design life in float service. By using strong grids and specially designed active material the HR series offers stable performance during high current discharge requirements. The HR series offers 30% more power output than the standard range. Suitable for UPS/EPS where high current loads are required.



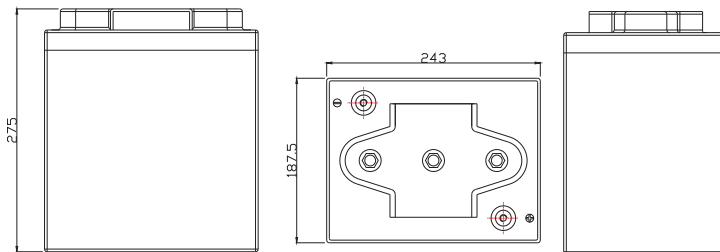
Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	850W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 33.0 Kg(Tolerance ±2%)
Max. Discharge Current	2250A (5 sec)
Internal Resistance	Approx. 1.7 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	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
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

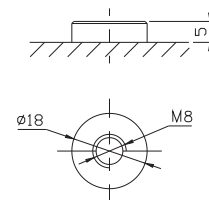


Dimensions

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	851.8	698.7	631.6	463.6	372.0	265.8	148.9	118.7
5.00V	827.2	662.0	628.5	452.8	350.3	256.0	145.9	114.6
5.10V	802.6	646.1	595.1	435.1	341.0	251.6	143.4	112.5
5.25V	720.7	622.0	543.7	412.9	324.6	242.3	140.1	110.4
5.40V	650.5	597.4	486.8	394.3	314.2	232.3	136.8	108.5
5.55V	555.5	550.0	447.9	375.8	303.0	224.5	132.6	104.2

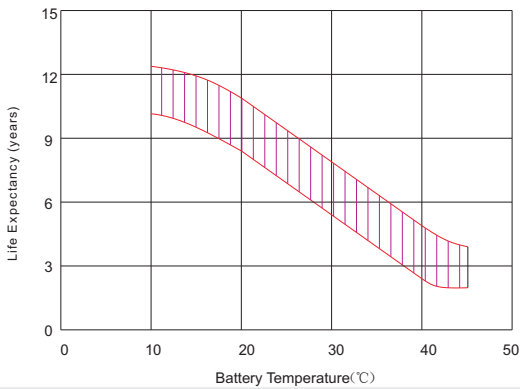
Constant Power Discharge Characteristics : W(25°C)

F.V / Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
4.80V	4493	3708	3511	2700	2054	1483	832.1	663.9
5.00V	4405	3560	3484	2653	1954	1442	814.2	644.7
5.10V	4354	3465	3326	2574	1915	1420	808.1	637.8
5.25V	3964	3388	3094	2494	1847	1386	803.8	634.2
5.40V	3610	3252	3034	2389	1790	1340	790.2	629.4
5.55V	3171	3080	2974	2285	1750	1300	775.6	610.7

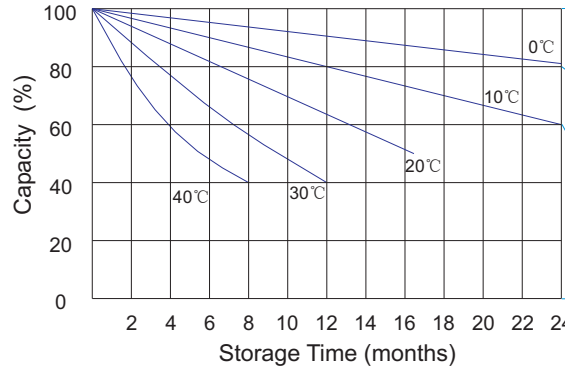
All mentioned values are average values (Tolerance ±2%).



Effect of temperature on long term float life



Storage characteristic



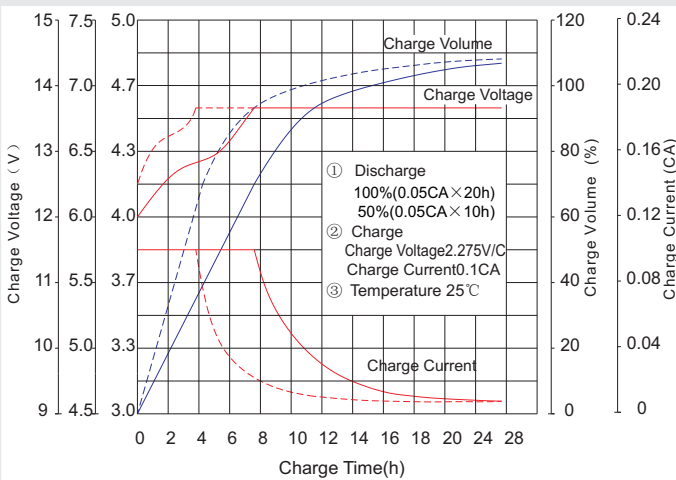
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is requires)

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

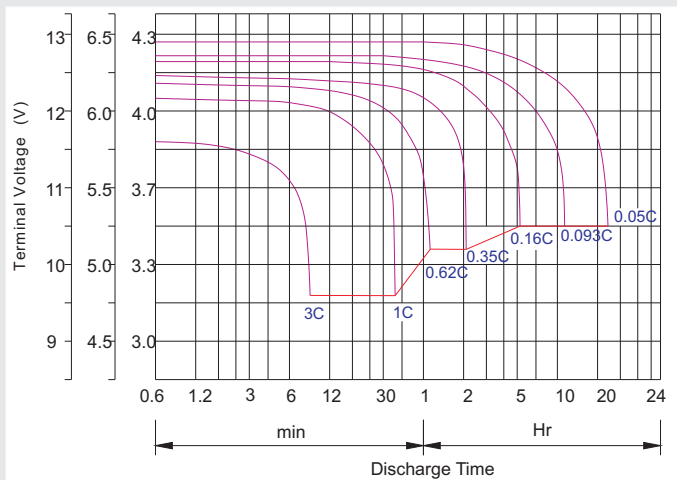
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

Battery Type		-20°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 + 2.4~2.5V/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/°C/Cell.

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