



RA6-225S(6V225Ah)

Specification

Cells Per Unit	3
Voltage Per Unit	6
Nominal Capacity	225Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 32.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 2.0 mΩ
Terminal	F14(M8)
Max. Discharge Current	2250A (5 sec)
Short Circuit Current	4100A
Design Life	12 years (Float charging)
Max. Charging Current	67.5 A
Reference Capacity	C3 174.0AH C5 196.5AH C10 225.0AH C20 238.0AH
Standby Use Voltage	6.80 V~6.90 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	7.30 V~7.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
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
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



RA series is a general purpose battery with 12 years design life in float service. It meets with IEC, JIS, BS, GB/T and YD/T standards. With advanced AGM valve regulated technology and high purity raw material, the RA series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, Telecom, power grid, medical equipment, emergency light and security system applications.



Dimensions

Length	243±2mm (9.57 inches)
Width	187±2mm (7.36 inches)
Height	275±2mm (10.8 inches)
Total Height	275±2mm (10.8 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

Constant Current Discharge Characteristics : A (25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	400.3	246.4	122.2	72.8	63.5	49.9	42.4	28.5	23.7	12.4
1.65V	382.7	236.5	118.0	70.5	61.5	48.5	41.3	28.2	23.4	12.2
1.70V	358.4	226.1	114.2	68.2	59.8	47.2	40.3	27.8	23.1	12.1
1.75V	333.5	216.1	110.0	65.8	58.0	46.0	39.3	27.4	22.8	11.9
1.80V	308.0	206.5	105.8	63.4	56.3	44.7	38.2	26.9	22.5	11.8
1.85V	255.6	177.9	94.9	58.1	52.0	41.5	35.7	25.3	21.2	11.2

Constant Power Discharge Characteristics : WPC (25°C)

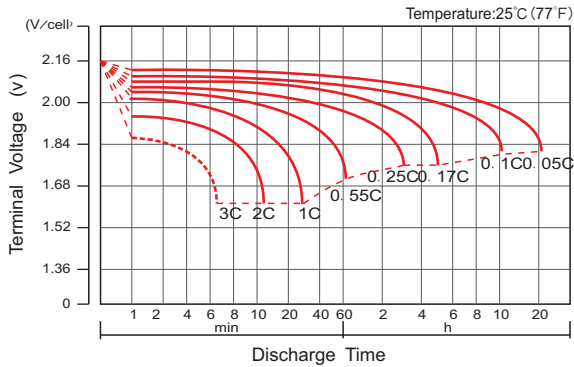
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	699.7	447.5	229.6	138.0	121.2	95.8	81.8	55.7	46.7	24.4
1.65V	678.9	434.1	223.0	134.2	118.0	93.5	80.0	55.2	46.2	24.1
1.70V	645.4	419.1	217.1	130.5	115.3	91.3	78.2	54.5	45.5	23.8
1.75V	609.3	404.7	210.5	126.5	112.3	89.3	76.5	53.8	45.0	23.6
1.80V	570.6	390.7	203.6	122.6	109.3	87.1	74.8	53.0	44.5	23.4
1.85V	480.2	339.9	183.7	113.0	101.5	81.2	70.0	49.9	41.9	22.2

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C₁₀ should reach 95% after the first cycle and 100% after the third cycle.

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Discharge Characteristics Curve



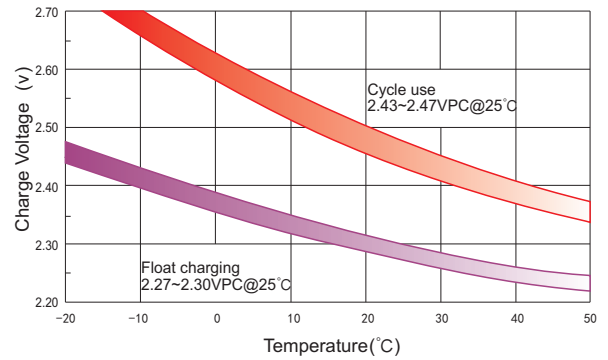
Charge Characteristic Curve For Standby Use



Cycle Life In Relation To Depth Of Discharge



Relationship Between Charging Voltage And Temperature



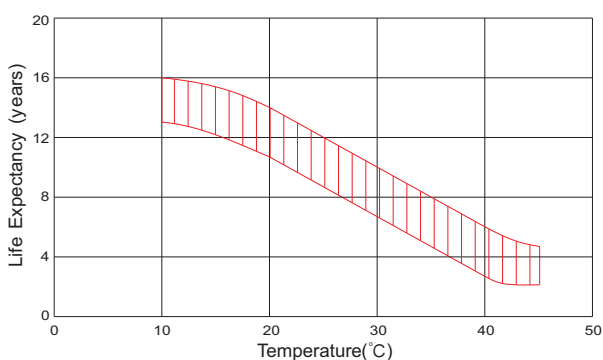
Temperature Effects On Capacity



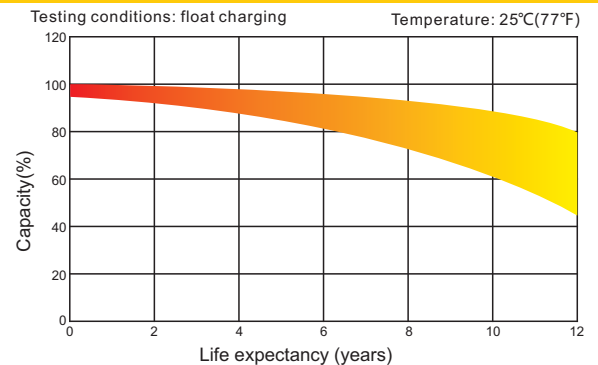
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain and update the latest information.