



RA12-120H(12V120Ah)

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	120Ah@20hours-rate to 1.75V per cell @25°C 450W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 36.5 Kg (Tolerance±3.0%)
Internal Resistance	Approx. 4.5 mΩ
Terminal	F12(M8)
Max. Discharge Current	1200A (5 sec)
Short Circuit Current	3000A
Design Life	12 years
Max. Charging Current	36.0 A
Reference Capacity	C10 113.2AH C20 120.0AH
Standby Use Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Equalization Voltage	14.6 V~14.8 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.



ISO 9001



ISO 14001



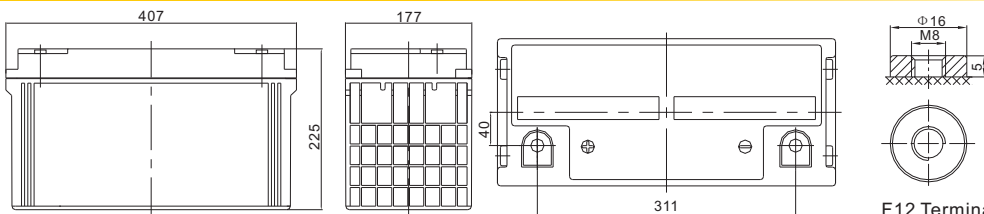
OHSAS 18001



MH 28539



Dimensions



Length	407±2mm (16.0 inches)
Width	177±2mm (6.97 inches)
Height	225±2mm (8.86 inches)
Total Height	225±2mm (8.86 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

F12 Terminal

Unit: mm

Constant Current Discharge Characteristics : A (25°C)

F.V/T ime	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	404.7	342.5	319.7	248.9	202.6	149.4	86.4	62.0
1.67V	367.3	314.1	295.4	232.1	190.5	141.3	82.5	59.5
1.70V	351.7	301.9	284.8	225.0	185.1	137.9	80.8	58.4
1.75V	324.7	281.2	267.0	212.9	175.9	132.1	78.0	56.5
1.80V	297.5	260.4	249.2	201.4	167.6	126.5	75.2	54.7
1.85V	255.3	221.8	211.1	173.2	145.5	111.9	67.9	49.9

Constant Power Discharge Characteristics : WPC (25°C)

F.V/T ime	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	743.7	637.8	601.2	474.4	389.5	290.2	162.3	117.4
1.67V	692.2	598.4	567.4	450.0	371.7	278.3	156.2	113.5
1.70V	669.4	580.4	551.6	439.6	363.7	272.7	153.7	111.9
1.75V	628.2	548.5	523.9	420.6	349.1	263.7	149.5	108.9
1.80V	584.7	514.9	494.7	401.9	335.9	254.4	145.0	105.9
1.85V	509.3	444.7	424.7	349.3	294.3	227.0	131.9	97.4

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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Discharge Characteristics Curve



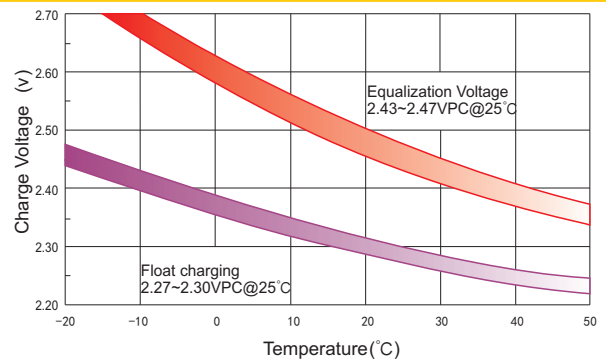
Charge Characteristic Curve For Standby Use



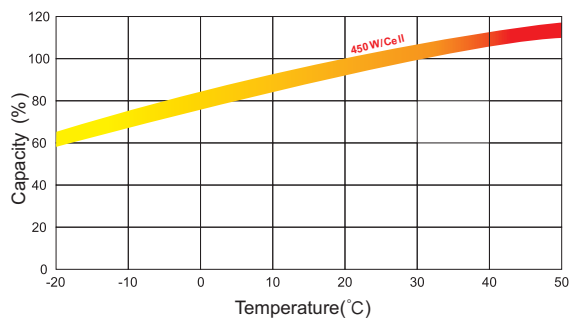
Storage Characteristics



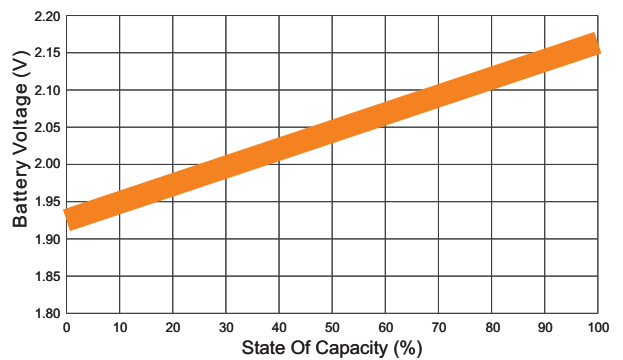
Relationship Between Charging Voltage And Temperature



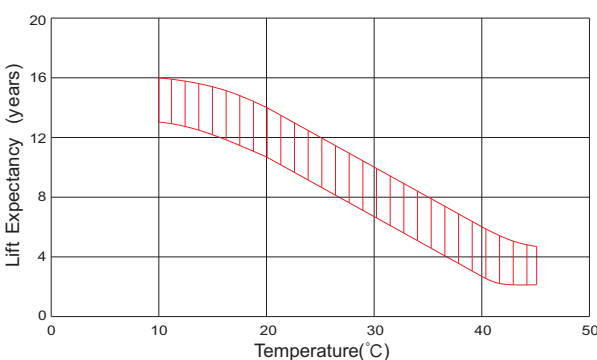
Temperature Effects On Capacity



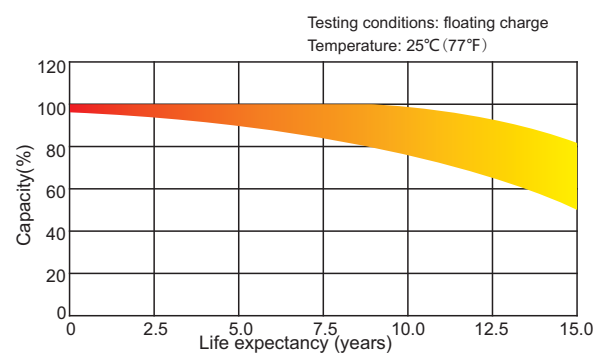
Relationship of OCV And State of Charge(20°C)



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.