



RA12-150A(12V150Ah)

Specification

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	150Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 43.7 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 4.4 mΩ
Terminal	F12(M8)/F5(M8)
Max. Discharge Current	1500A (5 sec)
Short Circuit Current	2600A
Design Life	12 years (Float charging)
Recommended Maximum Charging Current	45 A
Reference Capacity	C3 116.4AH C5 134.0AH C10 150.0AH C20 158.6AH
Standby Use Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use 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 and YDT 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	483±2mm (19.0 inches)
Width	170±2mm (6.69 inches)
Height	241±2mm (9.49 inches)
Total Height	241±2mm (9.49 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	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	325.0	258.3	155.8	92.4	55.3	41.0	33.3	28.1	18.8	16.0	8.20
1.65V	315.3	251.6	152.4	90.6	54.5	40.5	32.9	27.8	18.6	15.8	8.13
1.70V	302.6	242.7	147.9	88.4	53.4	39.8	32.4	27.4	18.4	15.6	8.05
1.75V	286.2	231.1	141.9	85.4	52.0	38.8	31.6	26.8	18.0	15.4	7.93
1.80V	265.2	216.2	134.3	81.5	50.1	37.5	30.7	26.0	17.6	15.0	7.78
1.85V	238.9	197.4	124.5	76.5	47.7	35.9	29.4	25.0	17.0	14.5	7.57

Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	560.7	458.4	287.2	175.3	106.4	79.6	65.0	55.1	37.3	31.9	16.4
1.65V	558.4	455.8	285.1	173.8	105.6	79.0	64.5	54.7	37.0	31.7	16.3
1.70V	541.9	443.5	278.2	170.1	103.9	77.8	63.5	54.0	36.6	31.3	16.1
1.75V	521.7	428.5	269.8	165.2	101.6	76.2	62.3	53.0	36.0	30.8	15.9
1.80V	491.8	406.5	257.8	158.4	98.4	74.0	60.7	51.7	35.1	30.1	15.6
1.85V	451.0	376.4	241.4	149.7	94.1	71.0	58.4	49.9	34.0	29.2	15.2

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

RA12-150A(12V150Ah)



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.