

## **Specification**

Cells Per Unit	6						
Voltage Per Unit	12						
Nominal Capacity	100Ah@20hour-rate to 1.75V per cell @25°C						
Weight	Approx. 28.5 Kg (Tolerance ± 3.0%)						
Internal Resistance	Approx. 6.0 mΩ						
Terminal	F5(M8)/F12(M8)						
Max. Discharge Current	1000A (5 sec)						
Short Circuit Current	2050A						
Design Life	12 years (Float charging)						
Max. Charging Current	30.0 A						
Reference Capacity	C3 76.4AH C5 86.1AH C10 95.2AH C20 100.0AH						
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-G series is hybrid GEL battery with 12 years floating design life ,it is ideal for standby discharge application. By using strong grids, high purity lead and patented Gel electrolyte, the series maintains high consistency for better performance and reliable standby service life. Suitable for UPS/EPS, Telecom, power grid, medical equipment, emergency light and security system applications.







ISO 9001

ISO 14001

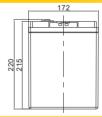
OHSAS 18001

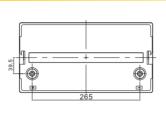




### **Dimensions**









F12 Terminal

Length	328±2mm (12.9 inches)						
Width	172±2mm (6.77 inches)						
Height	215±2mm (8.46 inches)						
Total Height	220±2mm (8.66 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)

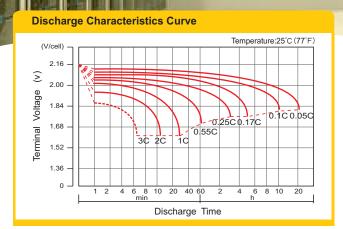
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F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	230.7	184.6	108.9	60.74	36.17	28.17	22.10	18.80	12.06	10.00	5.183
1.65V	212.5	172.6	103.2	58.67	34.96	27.31	21.44	18.21	11.96	9.905	5.155
1.70V	196.9	162.3	97.81	56.79	34.03	26.15	20.78	17.72	11.77	9.714	5.090
1.75V	180.7	152.0	93.95	55.00	32.72	25.48	20.21	17.22	11.58	9.619	5.000
1.80V	164.4	139.2	90.49	52.56	31.60	25.00	19.74	17.00	11.39	9.524	4.952
1.85V	128.6	115.2	76.73	46.91	28.90	23.27	18.51	15.65	10.73	8.952	4.905

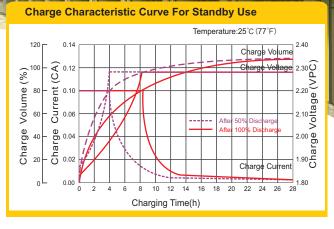
#### Constant Power Discharge Characteristics: WPC (25°C)

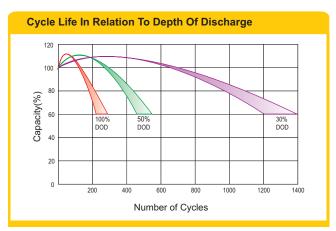
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	392.8	322.0	197.9	114.0	68.39	53.50	42.59	35.58	23.50	19.61	10.35
1.65V	378.2	313.0	193.2	112.1	66.54	52.17	41.56	34.62	23.31	19.42	10.25
1.70V	353.0	296.3	183.9	108.8	64.88	50.17	40.23	33.76	23.03	19.05	10.16
1.75V	328.5	279.7	177.5	105.8	62.57	48.93	39.29	32.99	22.65	18.86	9.977
1.80V	302.6	258.5	171.8	101.4	61.15	48.65	38.53	32.54	22.28	18.67	9.885
1.85V	240.1	217.2	147.3	91.10	56.31	45.38	36.27	30.10	21.05	17.63	9.792

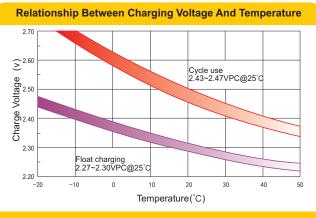
# RA12-100G(12V100Ah

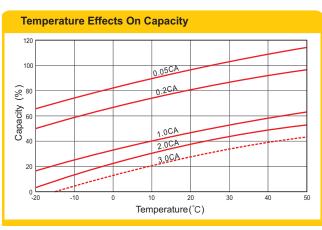


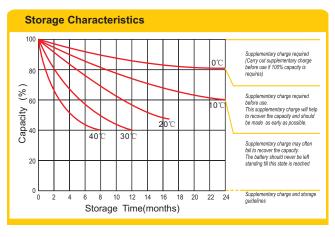


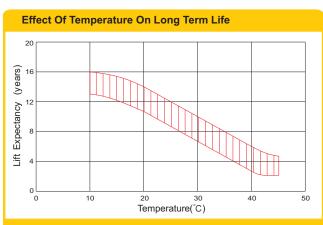


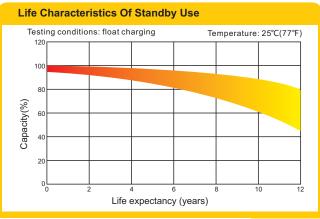












(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain and update the latest information.