



RA12-55G(12V55Ah)

Specification

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	55Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 16.5 Kg (Tolerance $\pm 3.0\%$)
Internal Resistance	Approx. 6.5 m Ω
Terminal	F11(M6)/F15(M6)
Max. Discharge Current	550A (5 sec)
Short Circuit Current	1100A
Design Life	12 years (Float charging)
Max. Charging Current	16.5 A
Reference Capacity	C3 42.0AH C5 47.4AH C10 52.4AH C20 55.0AH
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 $\pm 5^\circ\text{C}$
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

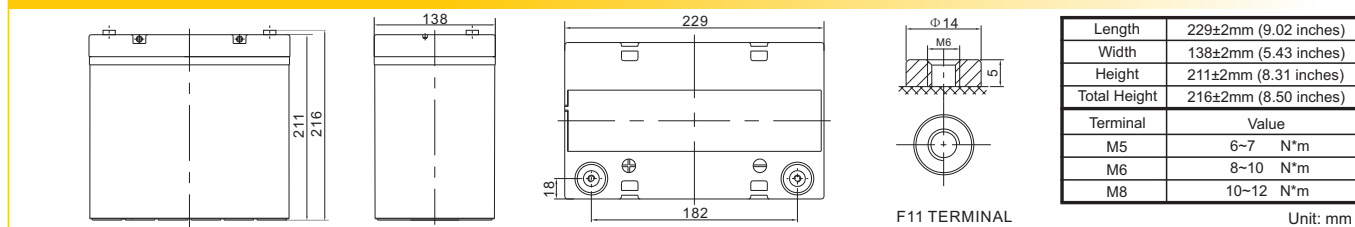


MH 28539



G4M20206-0910-E-16

Dimensions



Constant Current Discharge Characteristics : A (25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	133.5	101.5	59.90	33.40	19.89	15.50	12.16	10.34	6.632	5.500	2.850
1.65V	123.0	94.93	56.74	32.27	19.23	15.02	11.79	10.01	6.579	5.448	2.835
1.70V	114.0	89.27	53.80	31.23	18.71	14.38	11.43	9.744	6.475	5.343	2.800
1.75V	104.6	83.62	51.67	30.25	18.00	14.01	11.12	9.473	6.371	5.290	2.750
1.80V	95.19	76.57	49.77	28.91	17.38	13.75	10.86	9.350	6.266	5.238	2.723
1.85V	74.48	63.36	42.20	25.80	15.89	12.80	10.18	8.607	5.901	4.924	2.698

Constant Power Discharge Characteristics : WPC (25°C)

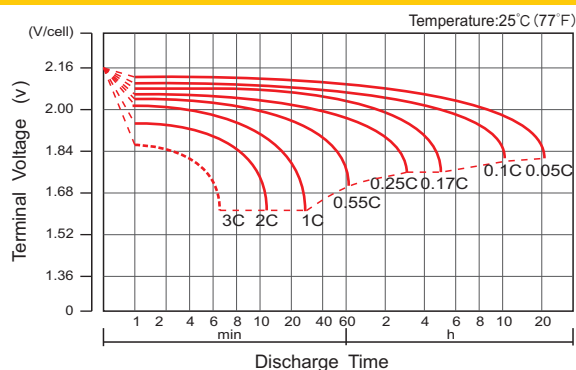
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	227.4	177.1	108.8	62.71	37.61	29.42	23.43	19.57	12.92	10.79	5.691
1.65V	219.0	172.2	106.3	61.64	36.60	28.69	22.86	19.04	12.82	10.68	5.640
1.70V	204.4	163.0	101.2	59.83	35.68	27.59	22.13	18.57	12.67	10.48	5.589
1.75V	190.2	153.8	97.63	58.17	34.41	26.91	21.61	18.14	12.46	10.37	5.487
1.80V	175.2	142.2	94.47	55.79	33.63	26.76	21.19	17.90	12.25	10.27	5.437
1.85V	139.0	119.5	81.02	50.11	30.97	24.96	19.95	16.56	11.58	9.697	5.386

(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 C₂₀ should reach 95% after the first cycle and 100% after the third cycle.

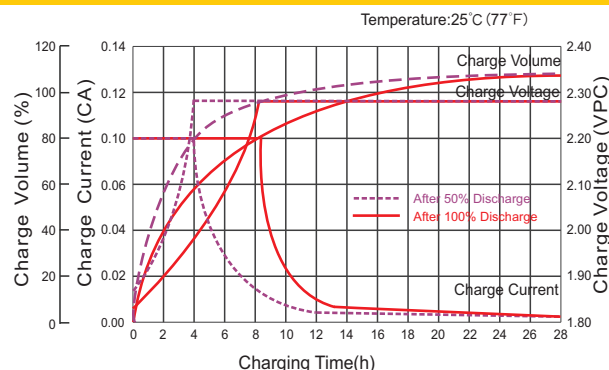
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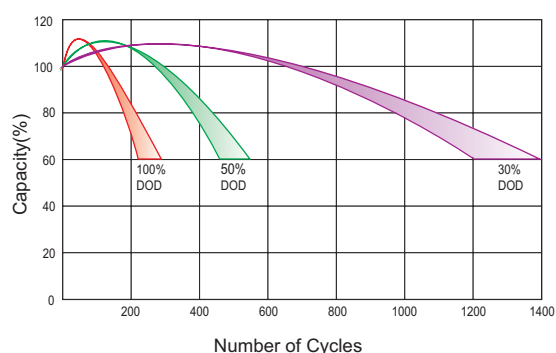
Discharge Characteristics Curve



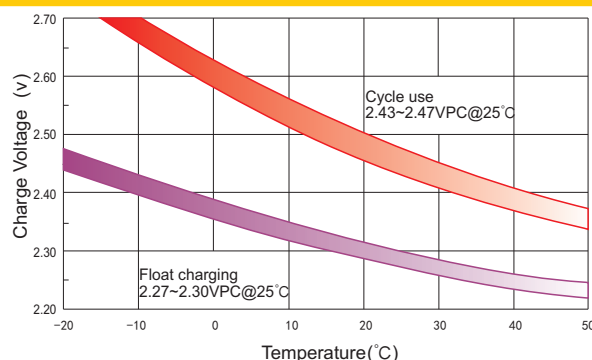
Charge Characteristic Curve For Standby Use



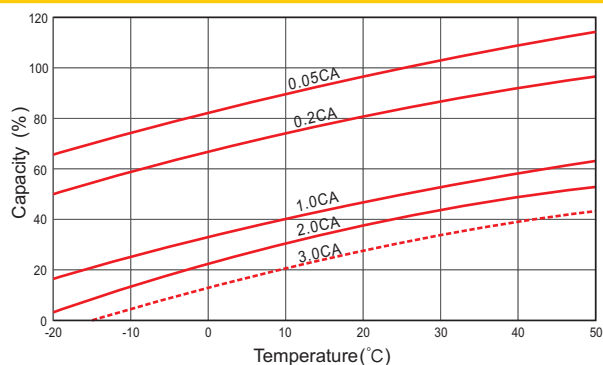
Cycle Life In Relation To Depth Of Discharge



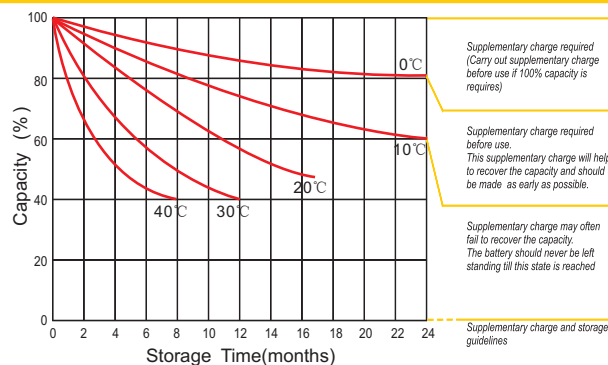
Relationship Between Charging Voltage And Temperature



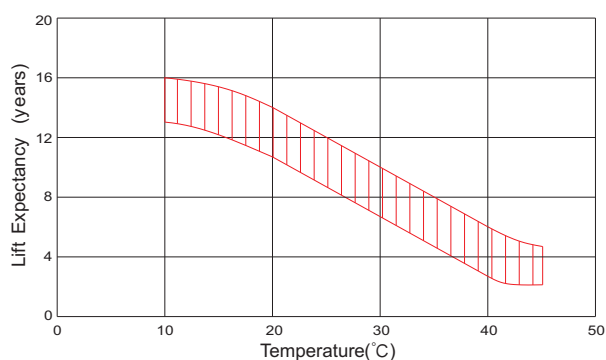
Temperature Effects On Capacity



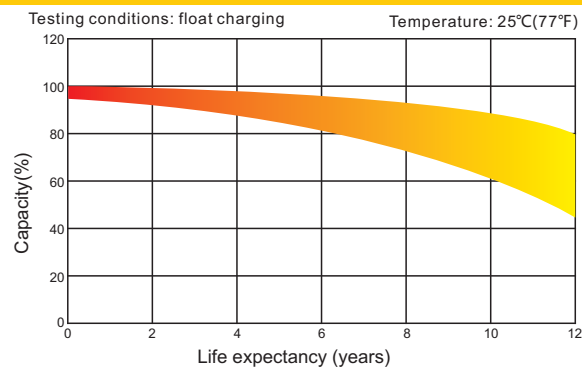
Storage Characteristics



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.

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