



RA12-55H (12V55.0Ah) (202w/cell)

RA12-55H is high rate series with 10 years floating design life, especially designed for high rate load discharge applications. By using strong grid and specific paste plate to insure high performance during big current discharge requirement when electricity is off., High Rate series offering extra-durable stable performance under high rate discharge.



Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	202W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 18.0 Kg
Max. Discharge Current	550A (5 sec)
Internal Resistance	Approx. 8 mΩ
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
Float charging Voltage	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	16.5 A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25°C
Self Discharge	RITAR batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Faston tabF11/F15
Constainer Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V2 can be available upon request.



MH28539



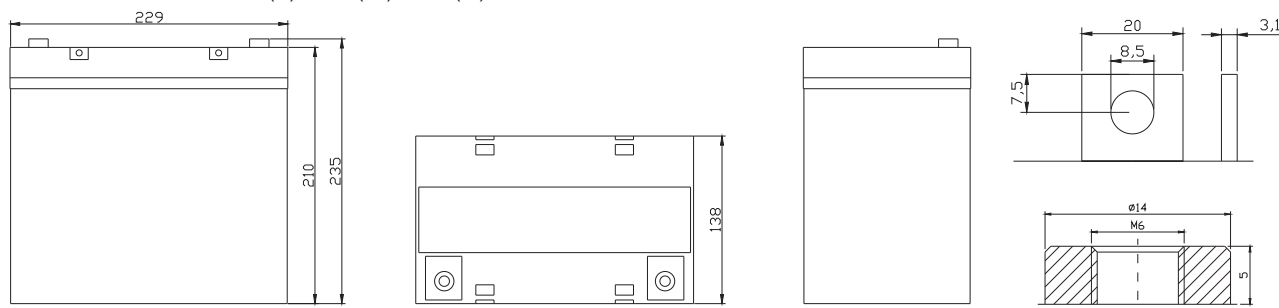
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ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 229(L)×138(W)×235(H)



Constant Current Discharge Characteristics : A(25 °C)

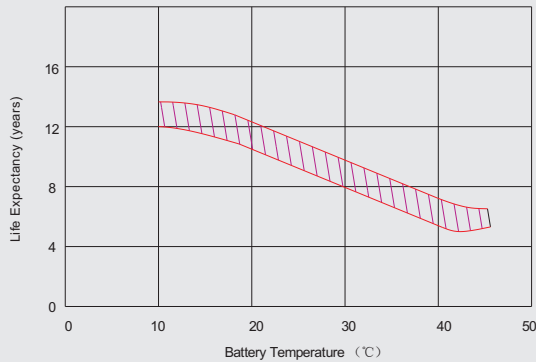
F.V/Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
9.60V	372.7	278.2	216.8	185.3	159.5	117.7	94.83	68.42	36.85	29.40
10.0V	347.4	260.1	202.4	175.6	150.8	112.6	89.30	65.89	35.48	28.38
10.2V	336.6	252.4	196.2	171.4	147.1	110.5	86.92	64.77	34.87	27.88
10.5V	319.0	239.3	189.7	165.0	139.9	106.6	85.60	63.76	34.77	27.52
10.8V	301.5	226.1	183.2	158.4	132.7	102.7	84.23	62.69	34.62	27.22
11.1V	284.0	213.0	176.8	152.0	125.5	98.9	82.97	61.68	34.41	26.86

Constant Power Discharge Characteristics : W(25 °C)

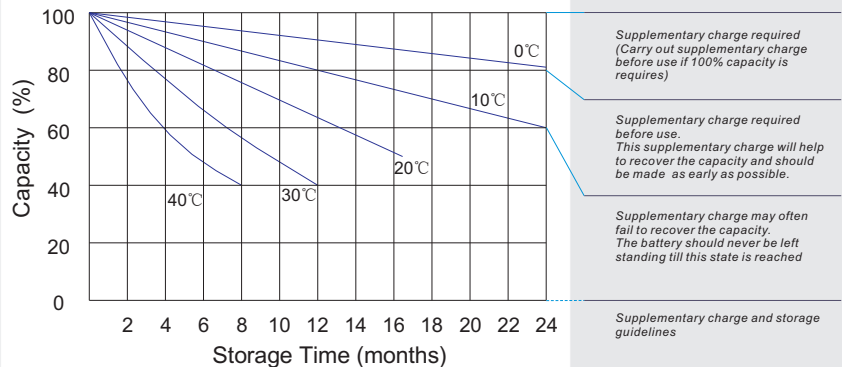
F.V/Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
9.60V	4011	2994	2333	1994	1713	1266	1036	748.1	402.9	322.3
10.0V	3738	2800	2177	1889	1623	1212	976	720.1	387.7	309.9
10.2V	3622	2716	2111	1844	1583	1188	950	707.9	381.0	304.1
10.5V	3433	2575	2042	1775	1505	1147	935	696.7	379.5	301.1
10.8V	3244	2433	1972	1705	1427	1105	921	685.1	377.4	298.0
11.1V	3055	2291	1902	1636	1350	1064	907	673.3	375.9	295.0

All mentioned values are average values.

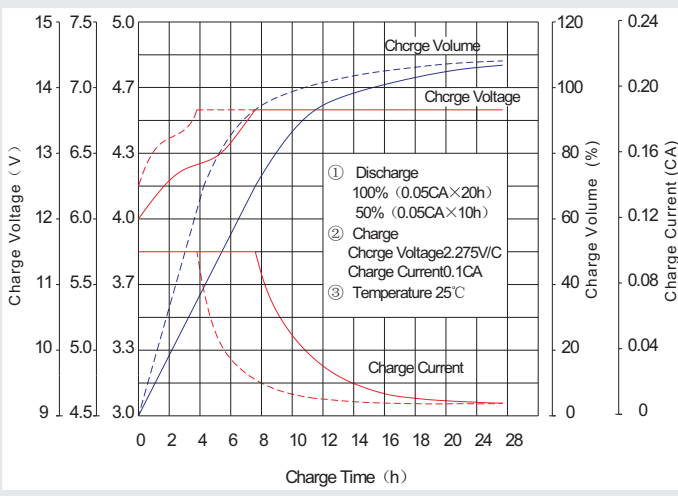
Effect of temperature on long term float life



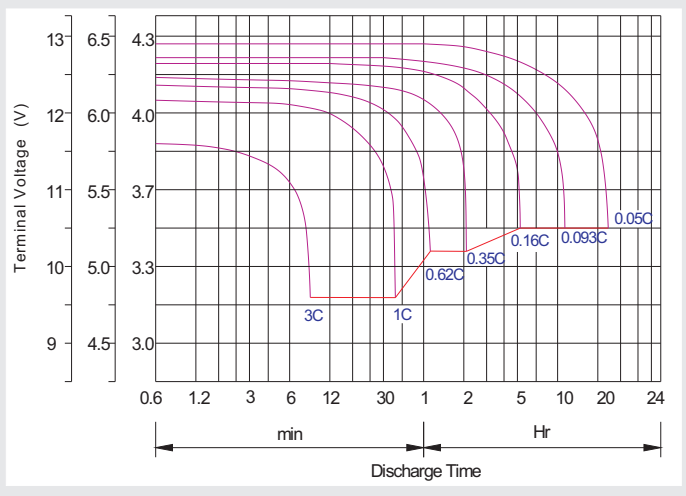
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Maintenance & Cautions

Float Service:
※ Every month, recommend inspection every battery voltage.
※ Every three months, recommend equalization charge for one time.
Equalization charge method:
Discharge: 100% rate capacity discharge.
Charge: Max. current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24h.
※ Effect of temperature on float charge voltage: -3mV/°C/Cell.
※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h + 2.4~2.5V/Cellx24h, Max. Current 0.3CA
Constant Current	-0.2Cx2h + 0.1CAx12h
Fast	-0.2Cx2h + 0.3CAx4.0h