



RT 1208 (12V0.8Ah)

RT 1208 is a general purpose battery with 5 years floating design life, meet with IEC, JIS standard. With heavy duty grid, thickness plates, special additives, RT series battery have long and reliable standby service life.



Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	0.8Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 0.37 Kg
Max. Discharge Current	8 A (5 sec)
Internal Resistance	Approx. 250 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	13.7 to 13.9 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	0.24A
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	T9
Constainer Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V2 can be available upon request.



MH28539



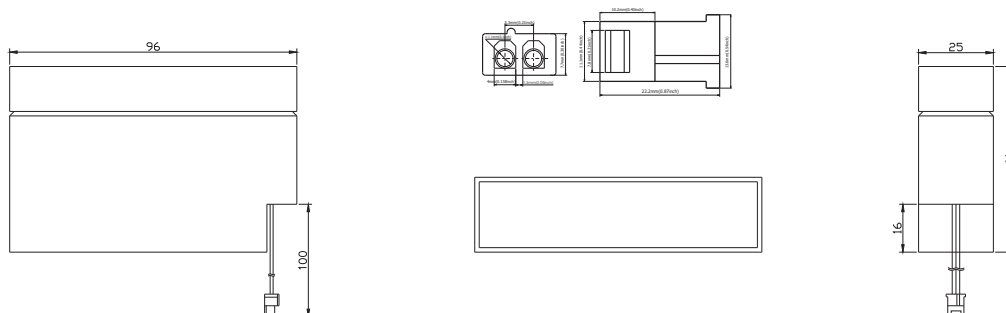
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ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 96(L)×25(W)×61(H)



Constant Current Discharge Characteristics : A(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	3.1600	2.1120	1.6240	0.9384	0.5552	0.2894	0.2048	0.1680	0.1393	0.0924	0.0800	0.0449
10.0V	3.0458	2.0298	1.5719	0.9240	0.5520	0.2873	0.2040	0.1672	0.1384	0.0920	0.0792	0.0432
10.2V	2.8812	1.9671	1.5359	0.9168	0.5480	0.2866	0.2032	0.1664	0.1376	0.0916	0.0783	0.0424
10.5V	2.6029	1.8408	1.4559	0.8960	0.5400	0.2831	0.2024	0.1656	0.1368	0.0913	0.0775	0.0408
10.8V	2.3246	1.7154	1.3751	0.8744	0.5320	0.2783	0.2008	0.1648	0.1360	0.0909	0.0759	0.0392
11.1V	2.0486	1.5892	1.2952	0.8528	0.5248	0.2741	0.1992	0.1640	0.1351	0.0905	0.0751	0.0384

Constant Power Discharge Characteristics : W(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	34.560	22.464	18.254	11.261	6.6576	3.4685	2.4528	2.0064	1.9628	1.1106	0.9454	0.5284
10.0V	33.660	22.440	17.992	11.078	6.6384	3.4477	2.4480	2.0016	1.9479	1.1016	0.9357	0.5090
10.2V	32.987	21.767	17.579	11.006	6.6240	3.4393	2.4432	2.0016	1.9430	1.1002	0.9260	0.4993
10.5V	29.809	20.869	16.664	10.742	6.5136	3.3850	2.4288	1.9872	1.9380	1.0972	0.9163	0.4800
10.8V	26.627	19.523	15.744	10.488	6.4032	3.3391	2.4096	1.9728	1.9331	1.0927	0.9017	0.4654
11.1V	23.450	18.176	14.828	10.234	6.2928	3.2890	2.3904	1.9584	1.9282	1.0927	0.8872	0.4509

All mentioned values are average values.

Effect of temperature on long term float life



Storage characteristic



Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

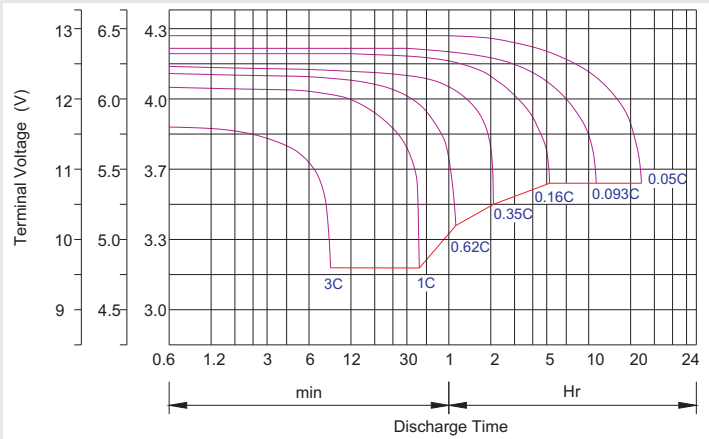
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

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

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

Charging Method:

Constant Voltage	-0.2Cx2h+2.4~2.45V/Cellx24h, Max. Current 0.3CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h

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.