



RT 1250 (12V5.0Ah)

RT 1250 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	5.0Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 1.60 Kg
Max. Discharge Current	50 A (5 sec)
Internal Resistance	Approx. 35 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	1.5 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 Tab 187(F1)/Faston tab 250(F2)
Constainer Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V2 can be available upon request.



MH28539



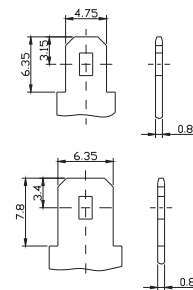
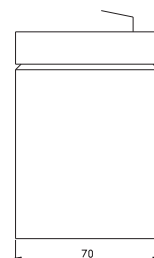
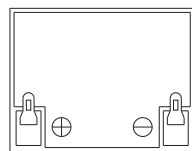
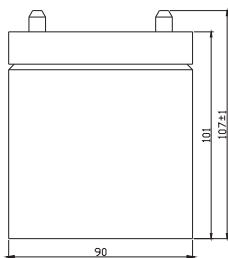
G4M20206-0910-E-16



ISO9001:2000 Certificate

Dimensions

Unit: mm Dimension: 90(L)×70(W)×107(H)



Constant Current Discharge Characteristics : A(25°C)

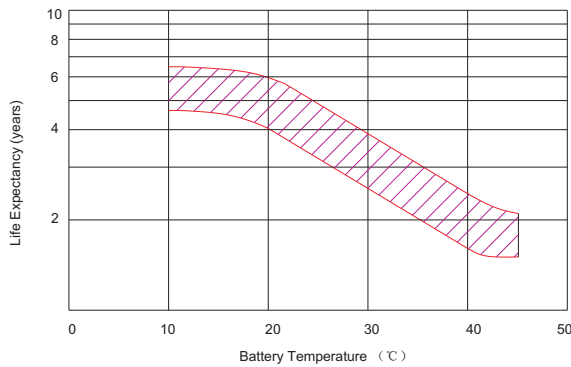
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	19.750	13.200	10.150	5.8650	3.4700	1.8087	1.2800	1.0500	0.8704	0.5773	0.4998	0.2805
10.0V	19.037	12.686	9.8245	5.7750	3.4500	1.7957	1.2750	1.0450	0.8652	0.5750	0.4947	0.2703
10.2V	18.008	12.294	9.5991	5.7300	3.4250	1.7913	1.2700	1.0400	0.8601	0.5727	0.4896	0.2652
10.5V	16.268	11.505	9.0993	5.6000	3.3750	1.7696	1.2650	1.0350	0.8549	0.5704	0.4845	0.2550
10.8V	14.529	10.721	8.5946	5.4650	3.3250	1.7391	1.2550	1.0300	0.8498	0.5681	0.4743	0.2448
11.1V	12.804	9.9323	8.0948	5.3300	3.2800	1.7130	1.2450	1.0250	0.8446	0.5658	0.4692	0.2397

Constant Power Discharge Characteristics : W(25°C)

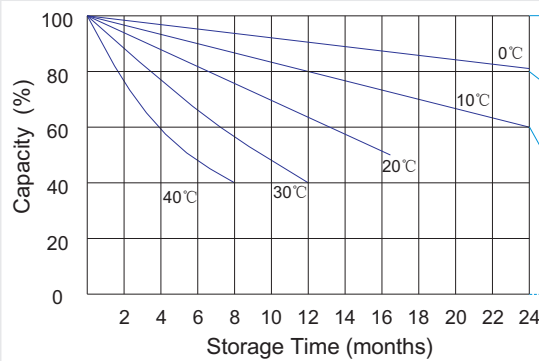
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	216.00	140.40	114.09	70.380	41.610	21.678	15.330	12.540	12.267	6.9411	5.9085	3.3027
10.0V	210.38	140.25	112.45	69.240	41.490	21.548	15.300	12.510	12.175	6.8853	5.8479	3.1815
10.2V	206.17	136.04	109.87	68.790	41.400	21.496	15.270	12.510	12.144	6.8762	5.7873	3.1209
10.5V	186.31	130.43	104.15	67.140	40.710	21.157	15.180	12.420	12.113	6.8575	5.7267	2.9997
10.8V	166.42	122.02	98.399	65.550	40.020	20.870	15.060	12.330	12.082	6.8296	5.6358	2.9088
11.1V	146.56	113.60	92.677	63.960	39.330	20.557	14.940	12.240	12.051	6.8296	5.5449	2.8179

All mentioned values are average values.

Effect of temperature on long term float life



Storage characteristic



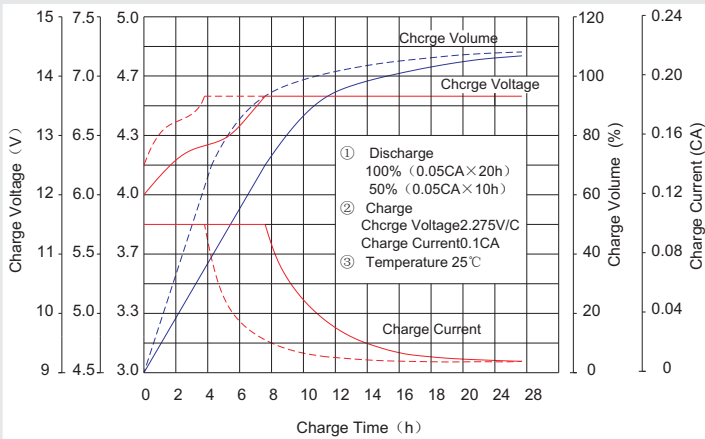
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

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

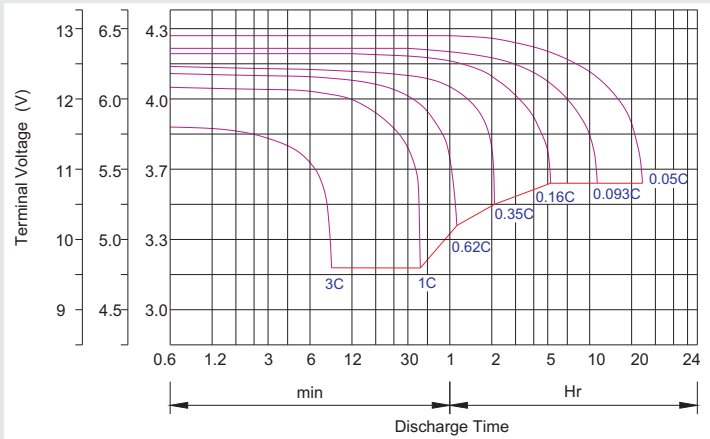
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

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.