



RT680(6V8.0Ah)

Specification

Cells Per Unit	3
Voltage Per Unit	6
Nominal Capacity	8.0Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 1.05 Kg (Tolerance $\pm 5.0\%$)
Internal Resistance	Approx. 14.5 m Ω
Terminal	F1/F2
Max. Discharge Current	80A (5 sec)
Short Circuit Current	400A
Design Life	6~8 years (Float charging)
Max. Charging Current	2.40 A
Reference Capacity	C3 6.19AH C5 6.98AH C10 7.48AH C20 8.00AH
Standby Use Voltage	6.85 V~6.94 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	7.30 V~7.40 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.



RT series is a general purpose battery with 6~8 years design life in float service. It meets with IEC, JIS, BS, GB/T and YD/T standards. With advanced AGM valve regulated technology and high purity raw material, the RT series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security system applications.



ISO 9001



ISO 14001



OHSAS 18001

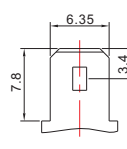
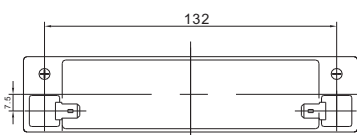
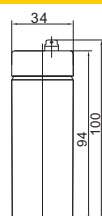
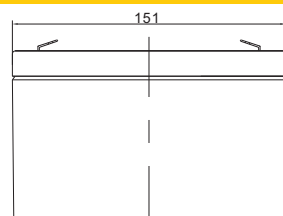


MH 28539



G4M20206-0910-E-16

Dimensions



F2 Terminal

Length	151 ± 1.5 mm (5.94 inches)
Width	34 ± 1.5 mm (1.34 inches)
Height	94 ± 1.5 mm (3.70 inches)
Total Height	100 ± 1.5 mm (3.94 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)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	30.35	21.45	15.51	8.907	4.888	3.001	2.256	1.821	1.509	0.971	0.789	0.417
1.65V	28.23	20.27	14.83	8.551	4.720	2.905	2.186	1.772	1.470	0.960	0.779	0.410
1.70V	25.47	18.66	13.89	8.173	4.567	2.810	2.127	1.724	1.432	0.946	0.767	0.405
1.75V	22.82	17.08	12.92	7.812	4.400	2.711	2.063	1.680	1.396	0.932	0.757	0.400
1.80V	20.03	15.46	11.93	7.466	4.231	2.614	2.000	1.632	1.360	0.917	0.748	0.396
1.85V	15.90	12.64	9.901	6.430	3.795	2.395	1.849	1.516	1.268	0.860	0.704	0.376

Constant Power Discharge Characteristics : WPC (25°C)

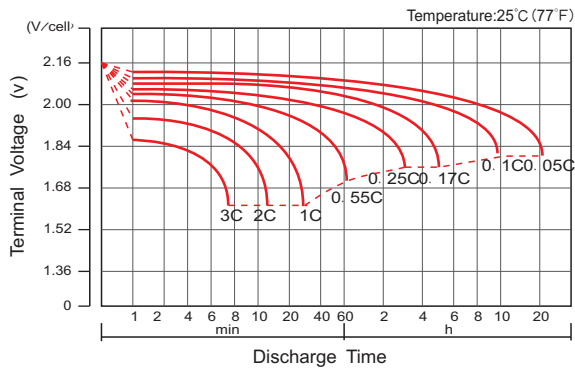
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	50.32	36.46	27.11	16.18	9.185	5.688	4.309	3.497	2.909	1.897	1.551	0.820
1.65V	47.33	35.12	26.30	15.69	8.921	5.533	4.193	3.415	2.844	1.879	1.534	0.808
1.70V	43.68	32.93	25.00	15.15	8.685	5.380	4.098	3.334	2.780	1.855	1.513	0.800
1.75V	40.00	30.68	23.61	14.63	8.418	5.216	3.992	3.261	2.719	1.833	1.495	0.791
1.80V	35.87	28.26	22.10	14.12	8.143	5.055	3.884	3.179	2.658	1.806	1.477	0.784
1.85V	29.07	23.51	18.60	12.29	7.348	4.657	3.607	2.966	2.487	1.699	1.393	0.745

(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.

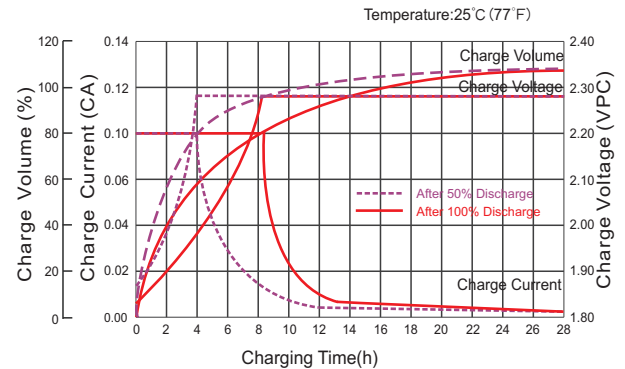
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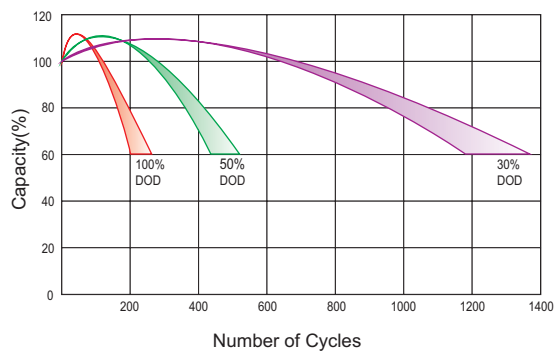
Discharge Characteristics Curve



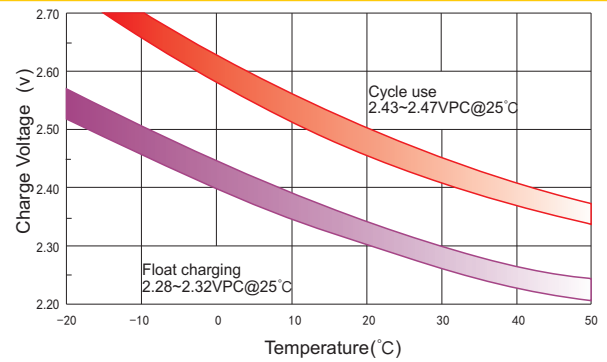
Charge Characteristic Curve For Standby Use



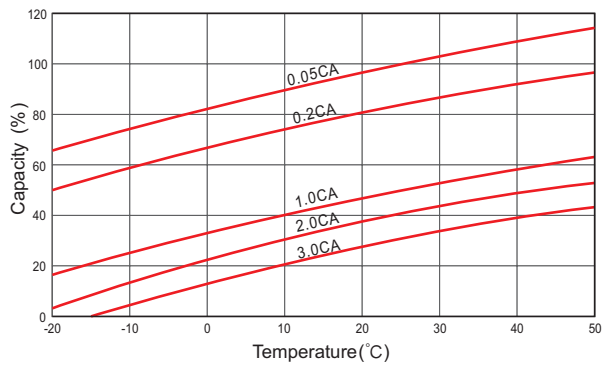
Cycle Life In Relation To Depth Of Discharge



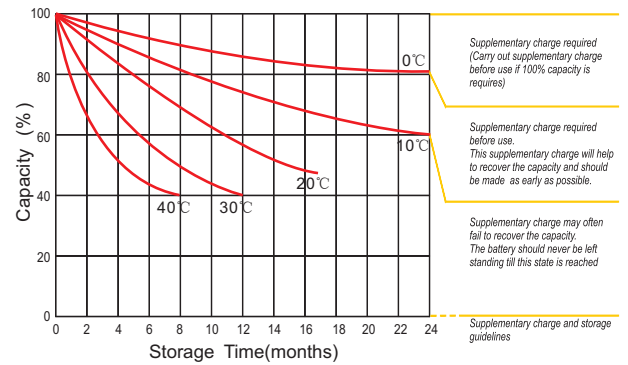
Relationship Between Charging Voltage And Temperature



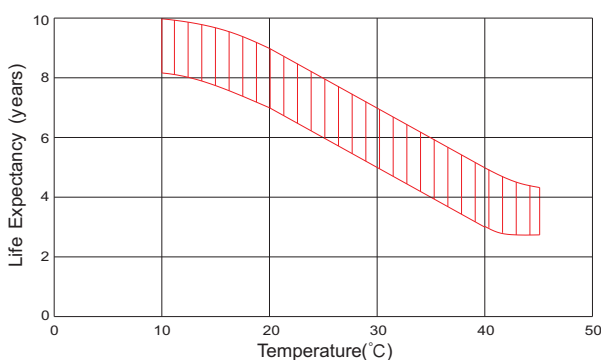
Temperature Effects On Capacity



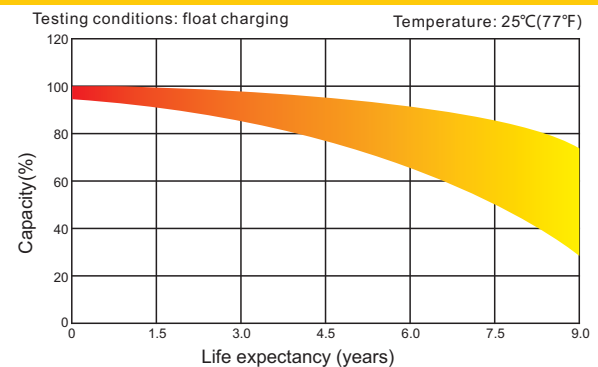
Storage Characteristics



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.