



RT12120L(12V12Ah)

Specification

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	12Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 4.05 Kg (Tolerance $\pm 5.0\%$)
Internal Resistance	Approx. 16.5 m Ω
Terminal	F1/F2
Max. Discharge Current	120A (5 sec)
Short Circuit Current	590A
Design Life	10 years
Max. Charging Current	3.6 A
Reference Capacity	C3 9.29AH C5 10.5AH C10 11.2AH C20 12.0AH
Standby Use Voltage	13.7 V~13.9 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.



RT series is a general purpose battery with 10 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

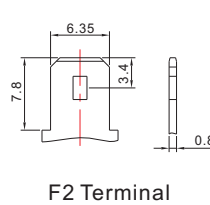
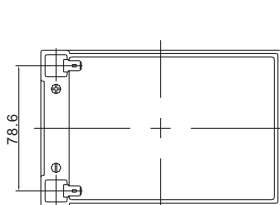
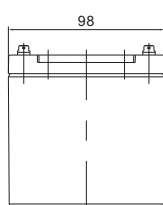
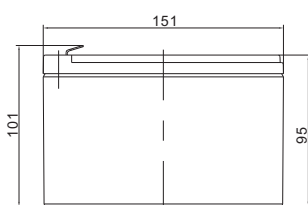


MH 28539



G4M20206-0910-E-16

Dimensions



Length	151 ± 1.5 mm (5.94 inches)
Width	98 ± 1.5 mm (3.86 inches)
Height	95 ± 1.5 mm (3.74 inches)
Total Height	101 ± 1.5 mm (3.98 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	47.81	33.46	23.96	13.63	7.405	4.502	3.384	2.732	2.264	1.457	1.183	0.625
1.65V	44.46	31.62	22.91	13.08	7.151	4.358	3.280	2.658	2.205	1.441	1.169	0.615
1.70V	40.11	29.11	21.45	12.50	6.918	4.214	3.190	2.586	2.148	1.418	1.151	0.607
1.75V	35.94	26.65	19.96	11.95	6.666	4.067	3.095	2.520	2.094	1.399	1.136	0.600
1.80V	31.55	24.12	18.43	11.42	6.411	3.921	2.999	2.447	2.040	1.375	1.122	0.594
1.85V	25.05	19.71	15.30	9.839	5.750	3.593	2.773	2.275	1.902	1.291	1.056	0.564

Constant Power Discharge Characteristics : WPC (25°C)

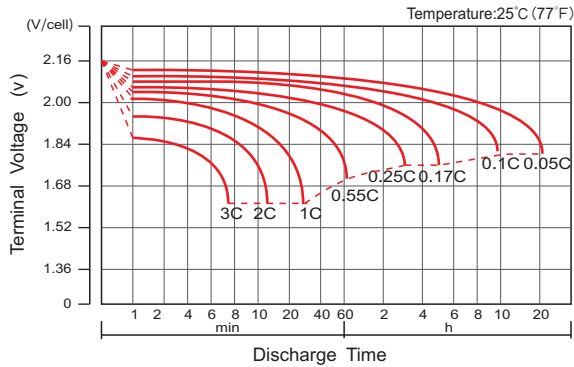
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	79.25	56.88	41.88	24.75	13.92	8.532	6.463	5.245	4.363	2.845	2.326	1.230
1.65V	74.55	54.79	40.64	24.01	13.52	8.300	6.290	5.122	4.266	2.819	2.301	1.213
1.70V	68.79	51.37	38.63	23.18	13.16	8.070	6.146	5.002	4.169	2.782	2.269	1.199
1.75V	63.00	47.86	36.47	22.38	12.75	7.825	5.988	4.892	4.079	2.749	2.242	1.186
1.80V	56.50	44.08	34.15	21.61	12.34	7.583	5.826	4.769	3.988	2.708	2.216	1.176
1.85V	45.79	36.67	28.74	18.80	11.13	6.985	5.410	4.449	3.731	2.548	2.089	1.118

(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.

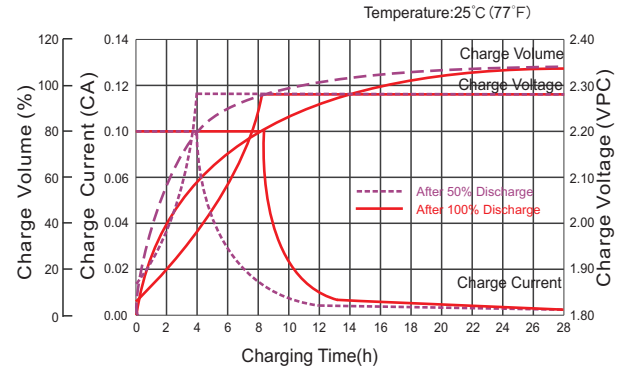
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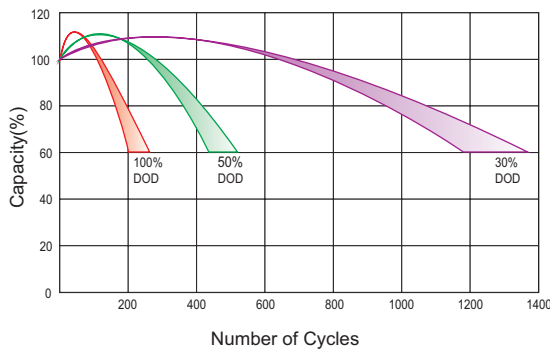
Discharge Characteristics Curve



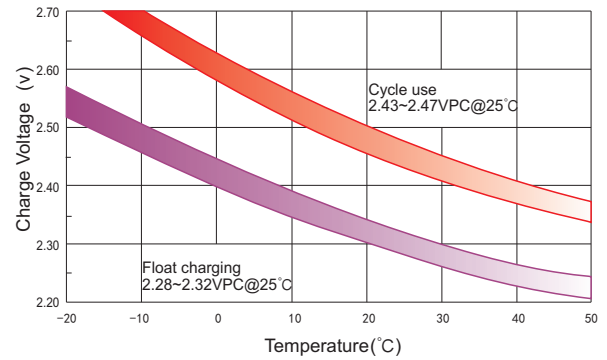
Charge Characteristic Curve For Standby Use



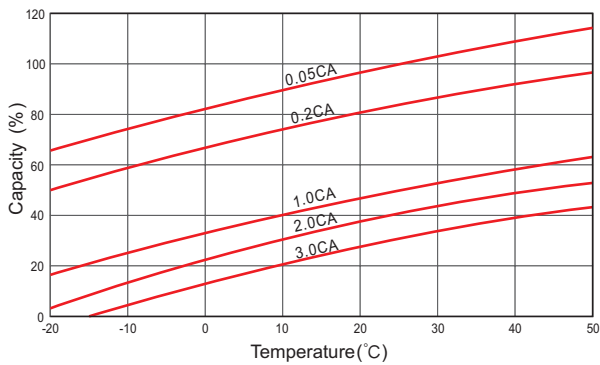
Cycle Life In Relation To Depth Of Discharge



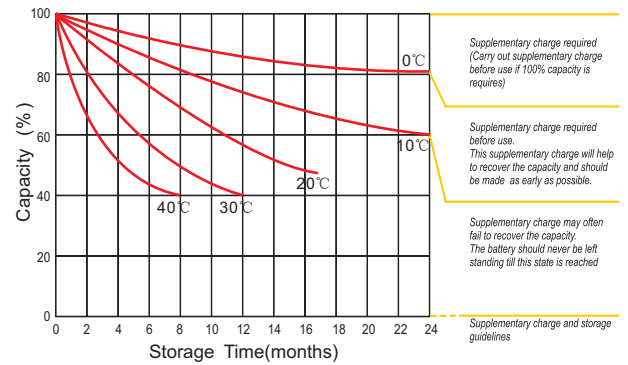
Relationship Between Charging Voltage And Temperature



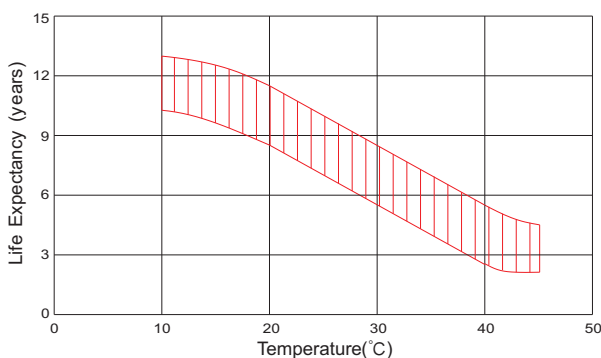
Temperature Effects On Capacity



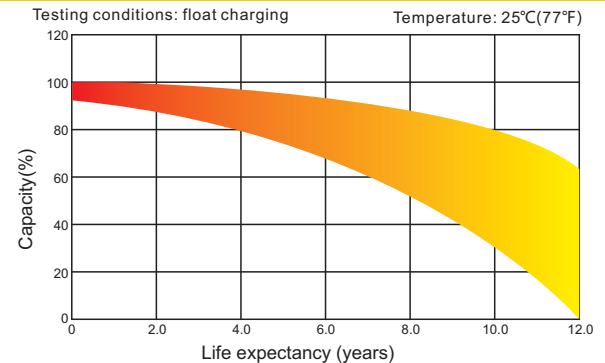
Storage Characteristics



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.