



# RT12100A(12V10Ah)

## Specification

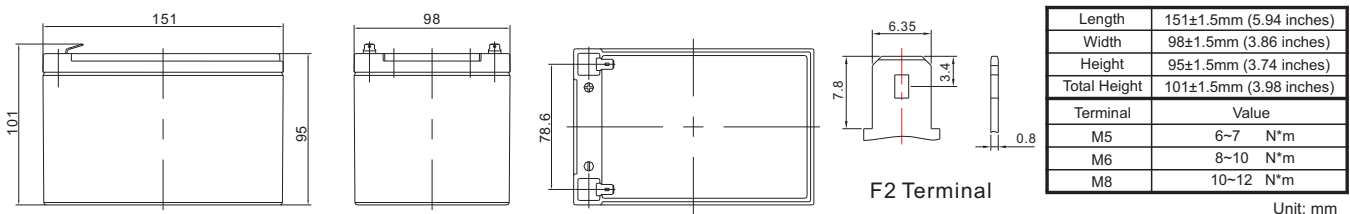
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	10Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 3.0 Kg (Tolerance ±4.0%)
Internal Resistance	Approx. 18 mΩ
Terminal	F1/F2
Max. Discharge Current	100A (5 sec)
Short Circuit Current	520A
Design Life	6~8 years (Float charging)
Recommended Maximum Charging Current	3 A
Reference Capacity	C3 7.76AH C5 8.76AH C10 9.39AH C20 10.1AH
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±5°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 and YDT 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, Telecom, power grid, medical equipment, emergency light and security system applications.



## Dimensions



### Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	38.46	25.34	18.88	10.93	6.379	3.763	2.736	2.179	1.839	1.229	1.001	0.521
1.65V	37.07	24.58	18.39	10.69	6.261	3.708	2.699	2.152	1.818	1.216	0.991	0.517
1.70V	35.26	23.59	17.74	10.37	6.104	3.635	2.651	2.115	1.790	1.200	0.979	0.511
1.75V	32.94	22.31	16.89	9.956	5.898	3.538	2.587	2.068	1.752	1.178	0.962	0.504
1.80V	30.01	20.68	15.80	9.418	5.630	3.411	2.502	2.005	1.702	1.149	0.939	0.494
1.85V	26.41	18.63	14.43	8.731	5.283	3.245	2.392	1.922	1.637	1.110	0.910	0.481

### Constant Power Discharge Characteristics : WPC (25°C)

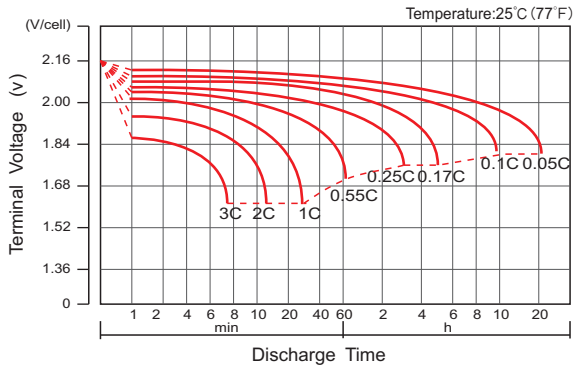
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	66.20	43.72	33.51	20.15	12.11	7.24	5.30	4.25	3.60	2.44	2.00	1.04
1.65V	65.50	43.54	33.32	20.00	12.01	7.19	5.27	4.21	3.57	2.42	1.98	1.03
1.70V	63.00	42.26	32.42	19.52	11.75	7.07	5.18	4.15	3.53	2.39	1.96	1.02
1.75V	59.91	40.68	31.32	18.93	11.41	6.91	5.08	4.08	3.46	2.35	1.93	1.01
1.80V	55.54	38.35	29.72	18.08	10.94	6.69	4.93	3.96	3.38	2.30	1.88	0.99
1.85V	49.74	35.17	27.51	16.93	10.34	6.40	4.74	3.82	3.26	2.23	1.83	0.97

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

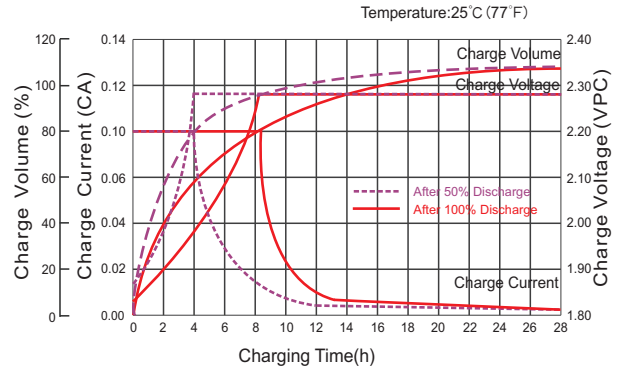
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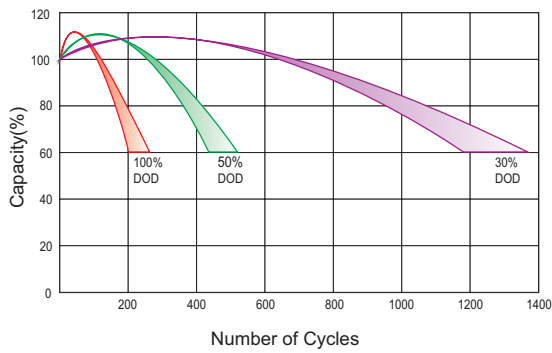
## Discharge Characteristics Curve



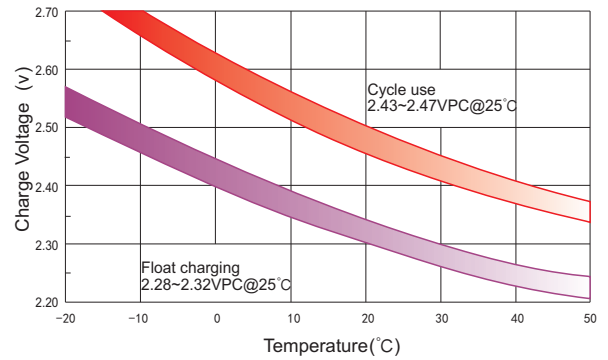
## Charge Characteristic Curve For Standby Use



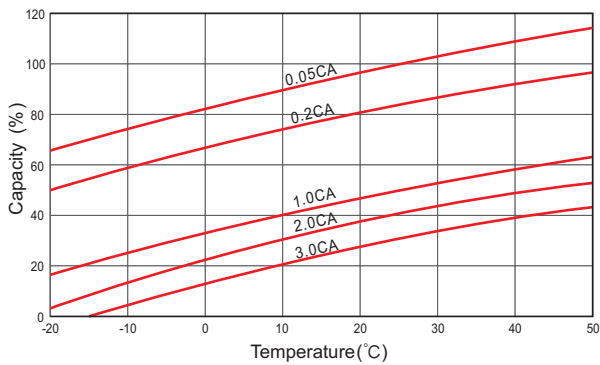
## Cycle Life In Relation To Depth Of Discharge



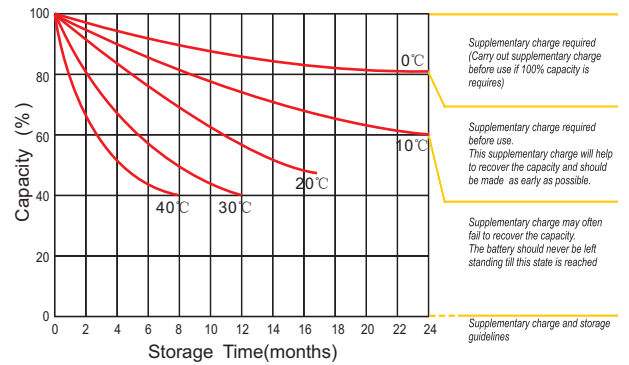
## Relationship Between Charging Voltage And Temperature



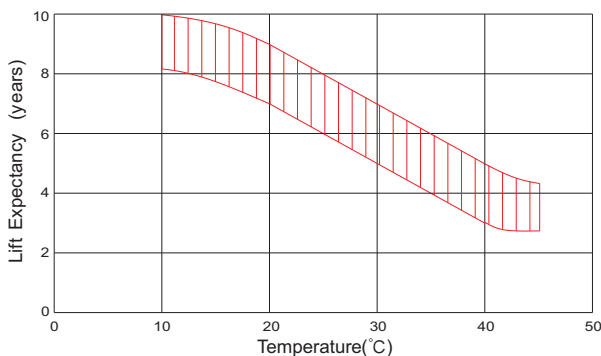
## Temperature Effects On Capacity



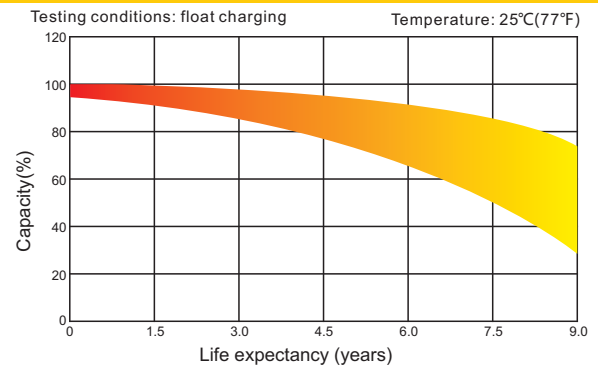
## Storage Characteristics



## Effect Of Temperature On Long Term Life



## Life Characteristics Of Standby Use



For Battery Sales + EPA Battery Recycling and AC / DC Power Services, please contact:  
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