



RT1280A(12V8Ah)

Specification

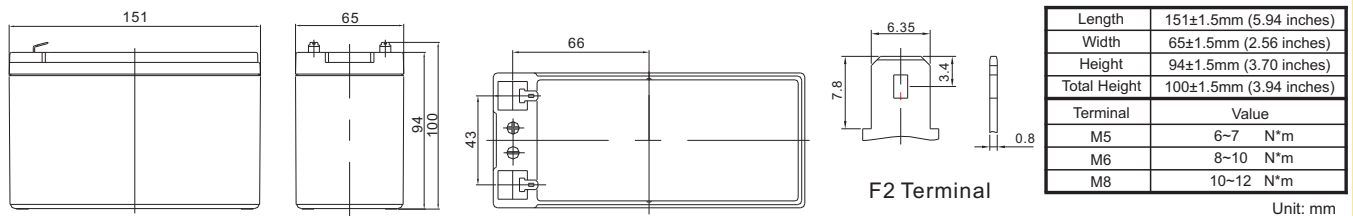
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	8Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 2.26 Kg (Tolerance ±4.0%)
Internal Resistance	Approx. 25 mΩ
Terminal	F1/F2
Max. Discharge Current	80A (5 sec)
Short Circuit Current	370A
Design Life	6~8 years (Float charging)
Recommended Maximum Charging Current	2.4 A
Reference Capacity	C3 6.21AH C5 7.01AH C10 7.52AH C20 8.06AH
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	30.77	20.27	15.11	8.743	5.103	3.011	2.189	1.743	1.471	0.983	0.801	0.417
1.65V	29.66	19.67	14.71	8.551	5.008	2.967	2.160	1.721	1.454	0.973	0.793	0.413
1.70V	28.21	18.88	14.19	8.297	4.883	2.908	2.121	1.692	1.432	0.960	0.783	0.409
1.75V	26.35	17.85	13.51	7.965	4.719	2.831	2.069	1.654	1.402	0.942	0.769	0.403
1.80V	24.01	16.54	12.64	7.534	4.504	2.729	2.002	1.604	1.362	0.919	0.752	0.395
1.85V	21.13	14.90	11.54	6.985	4.227	2.596	1.913	1.538	1.310	0.888	0.728	0.384

Constant Power Discharge Characteristics : WPC (25°C)

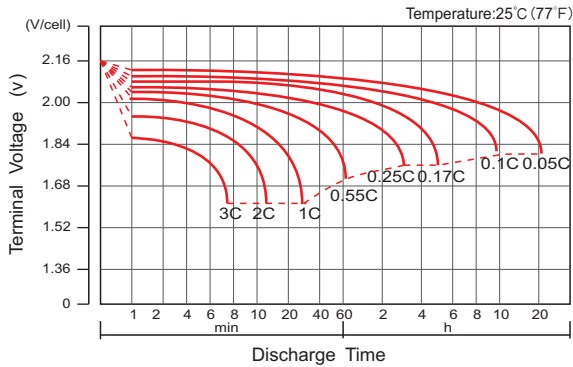
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	52.96	34.98	26.81	16.12	9.68	5.79	4.24	3.40	2.88	1.95	1.60	0.83
1.65V	52.40	34.83	26.65	16.00	9.61	5.75	4.21	3.37	2.86	1.94	1.59	0.83
1.70V	50.40	33.80	25.94	15.61	9.40	5.65	4.15	3.32	2.82	1.91	1.57	0.82
1.75V	47.93	32.54	25.06	15.14	9.13	5.53	4.06	3.26	2.77	1.88	1.54	0.81
1.80V	44.43	30.68	23.77	14.47	8.75	5.36	3.95	3.17	2.70	1.84	1.51	0.79
1.85V	39.79	28.13	22.01	13.54	8.27	5.12	3.79	3.05	2.61	1.78	1.46	0.77

(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



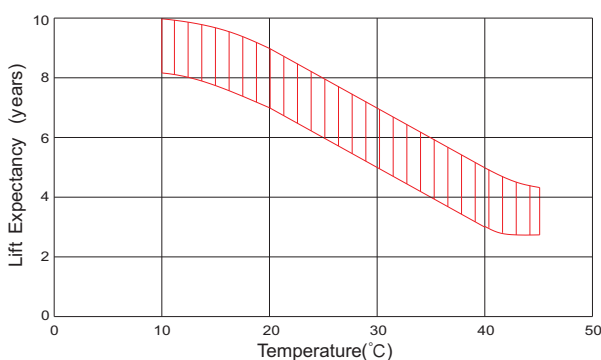
Temperature Effects On Capacity



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain and update the latest information.