



RT1290LB(12V9Ah)

Specification

Cells Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	9Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 2.55 Kg (Tolerance $\pm 5.0\%$)
Internal Resistance	$\leq 21 \text{ m}\Omega$ (Full Charge Condition @25°C)
Terminal	Default F2,F1 Optional
Max. Discharge Current	90A (5 sec)
Short Circuit Current	440A
Design Life	6~8 years
Max. Charging Current	2.7 A
Reference Capacity	C ₃ 6.75Ah C ₅ 7.65Ah C ₁₀ 8.41Ah C ₂₀ 9.00Ah
Standby Use Voltage	13.7 V~13.9 V @ 25°C Temperature Compensation: $-3\text{mV}/^\circ\text{C}/\text{Cell}$
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: $-4\text{mV}/^\circ\text{C}/\text{Cell}$
Operating Temperature Range	Discharge: $-20^\circ\text{C}\sim 60^\circ\text{C}$ Charge: $0^\circ\text{C}\sim 50^\circ\text{C}$ Storage: $-20^\circ\text{C}\sim 60^\circ\text{C}$
Normal Operating Temperature Range	$25^\circ\text{C} \pm 5^\circ\text{C}$
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



ISO 45001

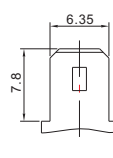
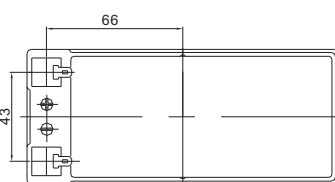
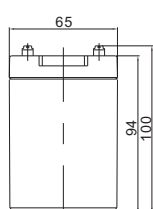
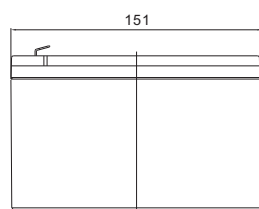


MH 28539



BSTXD210316008517EC

Dimensions



F2 Terminal

Length	151 $\pm$ 1.5mm (5.94 inches)
Width	65 $\pm$ 1.5mm (2.56 inches)
Height	94 $\pm$ 1.5mm (3.70 inches)
Total Height	100 $\pm$ 1.5mm (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	34.15	24.13	17.45	10.020	5.499	3.376	2.538	2.049	1.698	1.093	0.887	0.469
1.65V	31.75	22.80	16.68	9.619	5.310	3.268	2.460	1.994	1.654	1.080	0.877	0.461
1.70V	28.65	20.99	15.62	9.195	5.137	3.161	2.393	1.939	1.611	1.064	0.863	0.456
1.75V	25.67	19.22	14.54	8.788	4.950	3.050	2.321	1.890	1.570	1.049	0.852	0.450
1.80V	22.54	17.40	13.42	8.400	4.760	2.941	2.250	1.835	1.530	1.031	0.841	0.446
1.85V	17.89	14.22	11.14	7.234	4.270	2.695	2.080	1.706	1.426	0.968	0.792	0.423

Constant Power Discharge Characteristics : W/Cell (25°C)

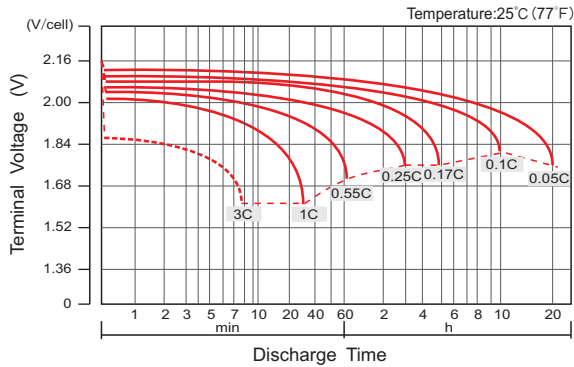
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	56.61	41.02	30.50	18.20	10.33	6.399	4.848	3.934	3.273	2.134	1.744	0.923
1.65V	53.25	39.51	29.59	17.66	10.04	6.225	4.718	3.842	3.200	2.114	1.726	0.909
1.70V	49.14	37.04	28.13	17.04	9.770	6.053	4.610	3.751	3.127	2.087	1.702	0.899
1.75V	45.00	34.52	26.56	16.46	9.470	5.868	4.491	3.669	3.059	2.062	1.681	0.890
1.80V	40.35	31.79	24.87	15.89	9.161	5.687	4.369	3.577	2.991	2.031	1.662	0.882
1.85V	32.71	26.44	20.93	13.82	8.267	5.239	4.057	3.337	2.798	1.911	1.567	0.838

(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.

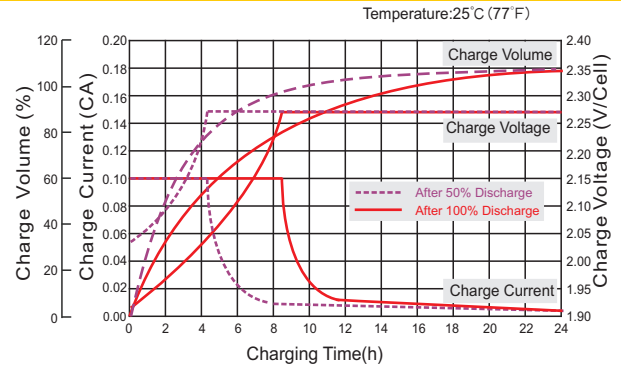
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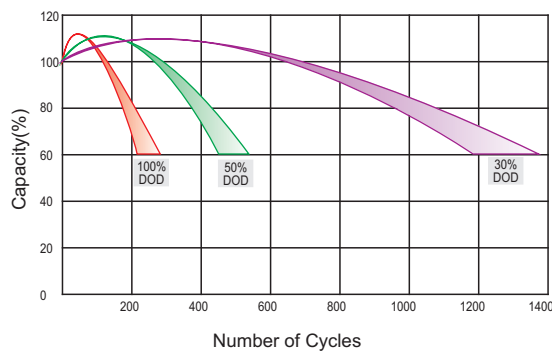
Discharge Characteristics Curve



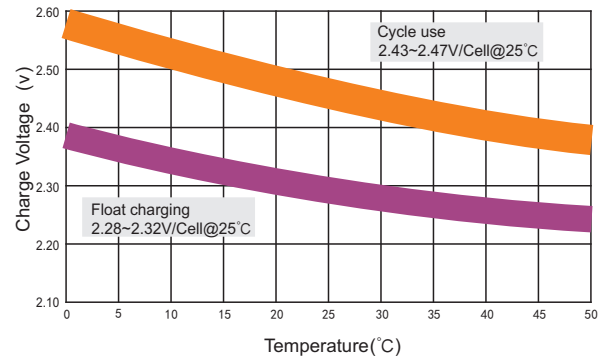
Charge Characteristic Curve For Standby Use(IU)



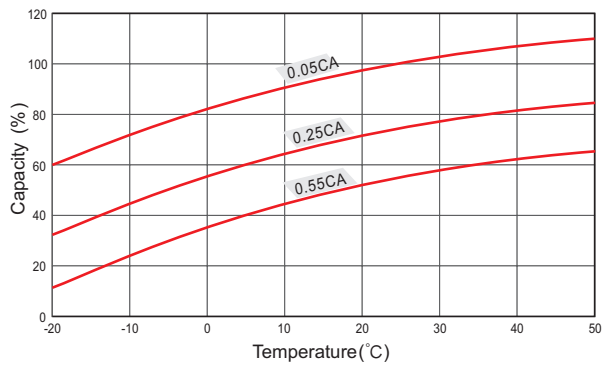
Cycle Life In Relation To Depth Of Discharge



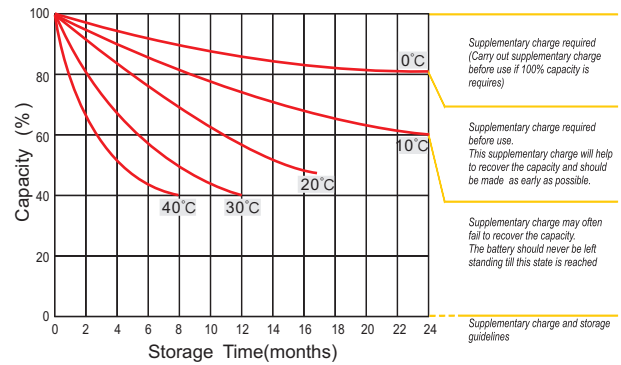
Relationship Between Charging Voltage And Temperature



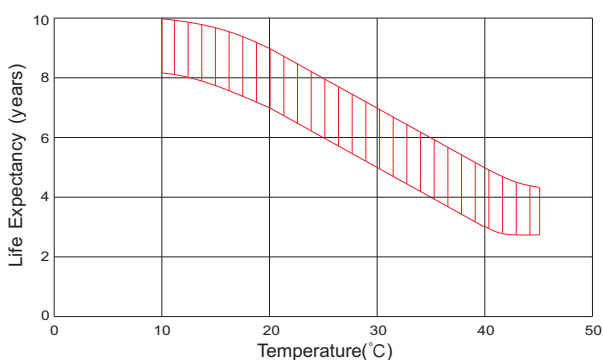
Temperature Effects On Capacity



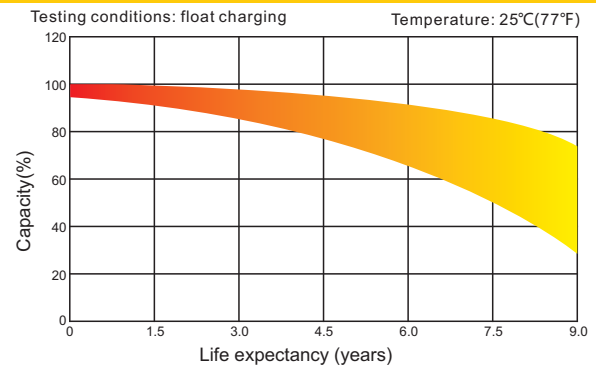
Storage Characteristics



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.