RT1255(12V5.5Ah)

Specification

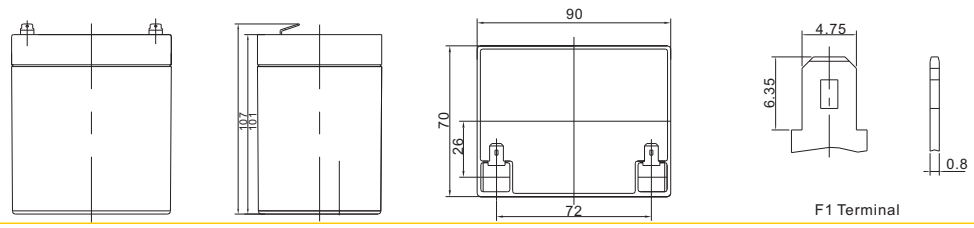
Cells Per Unit	6
Voltage Per Unit	12V
Nominal Capacity	5.5Ah@20hour-rate to 1.75V per cell @25℃
Weight	Approx. 1.50 Kg (Tolerance±5.0%)
Internal Resistance	≤42 mΩ(Full Charge Condition @25℃)
Terminal	Default F1,F2 Optional
Max. Discharge Current	55A (5 sec)
Short Circuit Current	255A
Design Life	6~8 years
Max. Charging Current	1.65 A
Reference Capacity	C_3 4.13Ah C_5 4.68Ah C_{10} 5.14Ah C_{20} 5.50Ah
Standby Use Voltage	13.7 V~13.9 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -20℃~60℃ Charge: 0℃~50℃ Storage: -20℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25℃.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



Length	90±1.5mm (3.54 inches)
Width	70±1.5mm (2.76 inches)
Height	101±1.5mm (3.98 inches)
Total Height	107±1.5mm (4.21 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℃)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	20.87	14.75	10.66	6.123	3.360	2.063	1.551	1.252	1.038	0.668	0.542	0.286
1.65V	19.41	13.94	10.19	5.879	3.245	1.997	1.503	1.218	1.011	0.660	0.536	0.282
1.70V	17.51	12.83	9.546	5.619	3.140	1.932	1.462	1.185	0.984	0.650	0.528	0.278
1.75V	15.69	11.74	8.884	5.370	3.025	1.864	1.419	1.155	0.960	0.641	0.521	0.275
1.80V	13.77	10.63	8.203	5.133	2.909	1.797	1.375	1.122	0.935	0.630	0.514	0.272
1.85V	10.93	8.688	6.807	4.421	2.609	1.647	1.271	1.043	0.872	0.592	0.484	0.259

Constant Power Discharge Characteristics : W/Cell (25℃)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	34.59	25.07	18.64	11.12	6.315	3.910	2.962	2.404	2.000	1.304	1.066	0.564
1.65V	32.54	24.15	18.08	10.79	6.133	3.804	2.883	2.348	1.955	1.292	1.055	0.556
1.70V	30.03	22.64	17.19	10.42	5.971	3.699	2.817	2.292	1.911	1.275	1.040	0.550
1.75V	27.50	21.09	16.23	10.06	5.787	3.586	2.745	2.242	1.869	1.260	1.028	0.544
1.80V	24.66	19.43	15.20	9.711	5.598	3.475	2.670	2.186	1.828	1.241	1.016	0.539
1.85V	19.99	16.16	12.79	8.447	5.052	3.202	2.480	2.039	1.710	1.168	0.958	0.512

(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 C_{20} should reach 95% after the first cycle and 100% after the third cycle.

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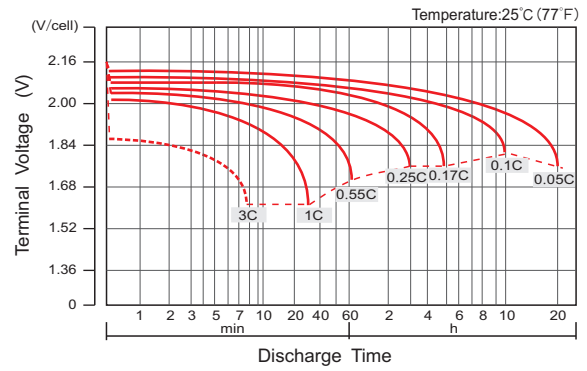
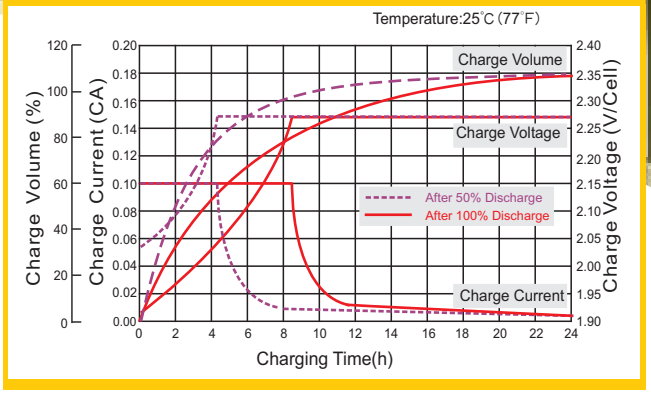
RITAR®

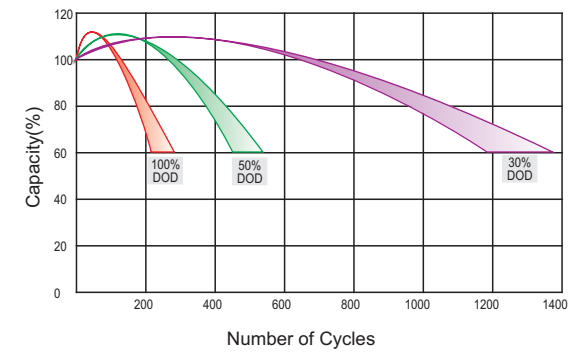
Discharge Characteristics Curve



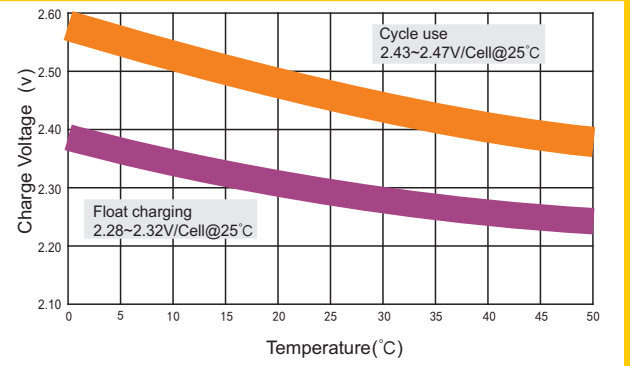
Charge Characteristic Curve For Standby Use(IU)



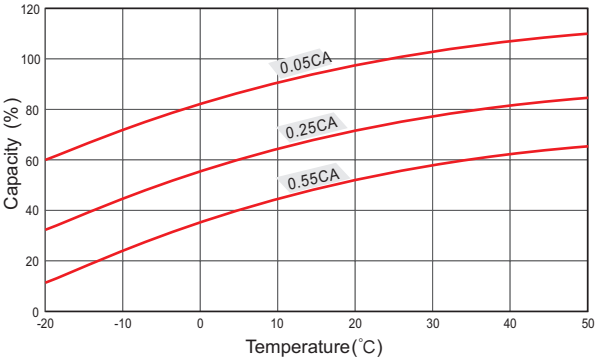
Cycle Life In Relation To Depth Of Discharge



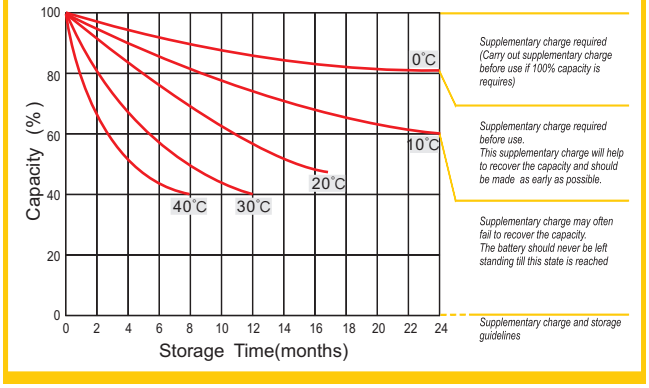
Relationship Between Charging Voltage And Temperature



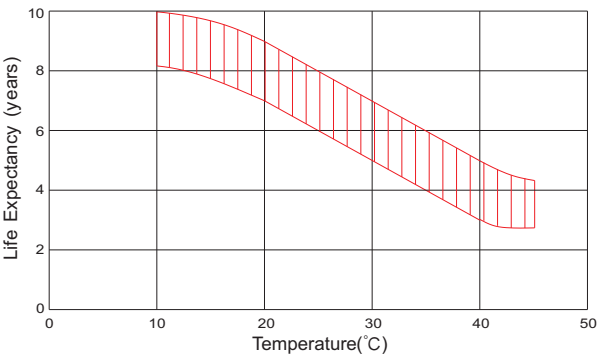
Temperature Effects On Capacity



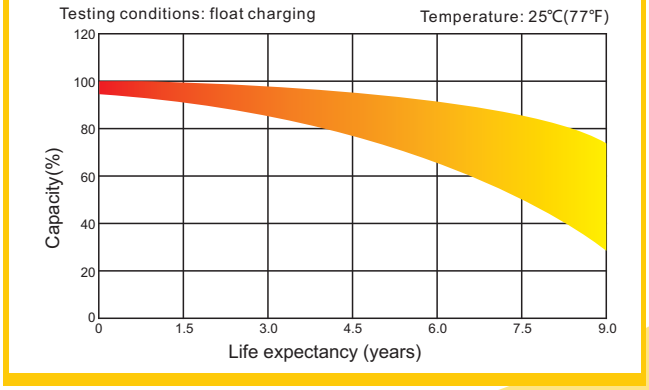
Storage Characteristics



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.

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