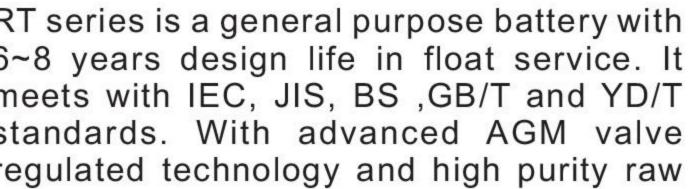
# RITAR®

## RT12120(12V12

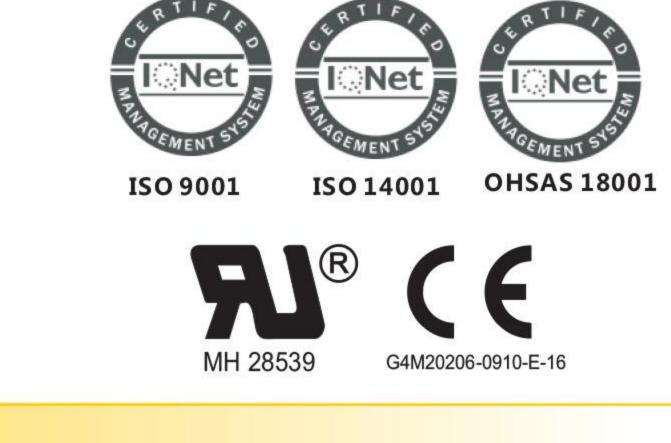
## **Specification**

Cells Per Unit	6	
Voltage Per Unit	12	
Nominal Capacity	12Ah@20hour-rate to 1.75V per cell @25°C	
Weight	Approx. 3.50 Kg (Tolerance $\pm$ 5.0%)	RIT
Internal Resistance	Approx. 17.0 mΩ	X
Terminal	F1/F2	
Max. Discharge Current	120A (5 sec)	RT serie
Short Circuit Current	590A	
Design Life	6~8 years (Float charging)	6~8 yea
Max. Charging Current	3.6 A	meets w standar
Reference Capacity	C3 9.29AH C5 10.5AH C10 11.2AH C20 12.0AH	regulate material high cor and reli
Standby Use Voltage	13.7 V~13.9 V @ 25°C Temperature Compensation: -3mV/°C/Cell	suitable
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell	applicat
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C	MANAG
Normal Operating Temperature Range	$25^{\circ}C \pm 5^{\circ}C$	
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.	ISC
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.	

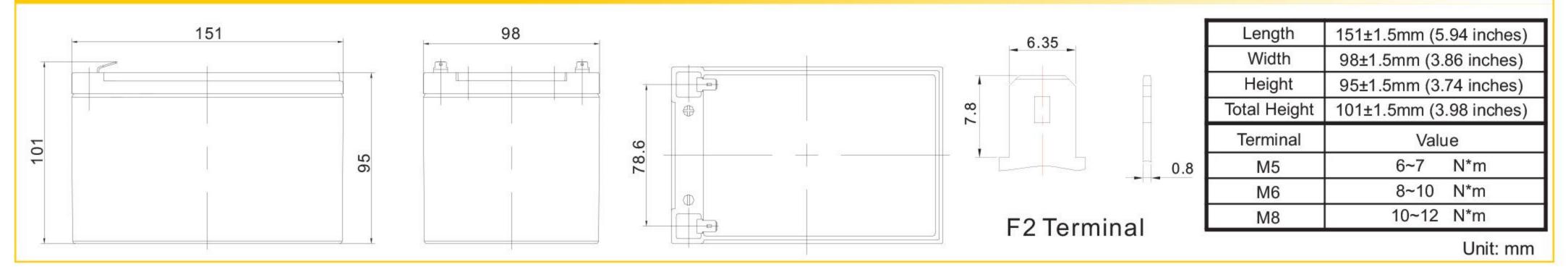




naterial, the RT series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security system applications.



## **Dimensions**



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

Constant		loonargo (	onaraoton			-						
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	45.53	32.18	23.26	13.36	7.332	4.502	3.384	2.732	2.264	1.457	1.183	0.625
1.65V	42.34	30.41	22.24	12.83	7.080	4.358	3.280	2.658	2.205	1.441	1.169	0.615
1.70V	38.20	27.99	20.83	12.26	6.850	4.214	3.190	2.586	2.148	1.418	1.151	0.607
1.75V	34.23	25.62	19.38	11.72	6.600	4.067	3.095	2.520	2.094	1.399	1.136	0.600
1.80V	30.05	23.19	17.90	11.20	6.347	3.921	2.999	2.447	2.040	1.375	1.122	0.594
1.85V	23.85	18.96	14.85	9.646	5.693	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	75.47	54.70	40.66	24.27	13.78	8.532	6.463	5.245	4.363	2.845	2.326	1.230
1.65V	71.00	52.68	39.45	23.54	13.38	8.300	6.290	5.122	4.266	2.819	2.301	1.213
1.70V	65.51	49.39	37.50	22.73	13.03	8.070	6.146	5.002	4.169	2.782	2.269	1.199
1.75V	60.00	46.02	35.41	21.95	12.63	7.825	5.988	4.892	4.079	2.749	2.242	1.186
1.80V	53.81	42.39	33.16	21.19	12.21	7.583	5.826	4.769	3.988	2.708	2.216	1.176
1.85V	43.61	35.26	27.90	18.43	11.02	6.985	5.410	4.449	3.731	2.548	2.089	1.118

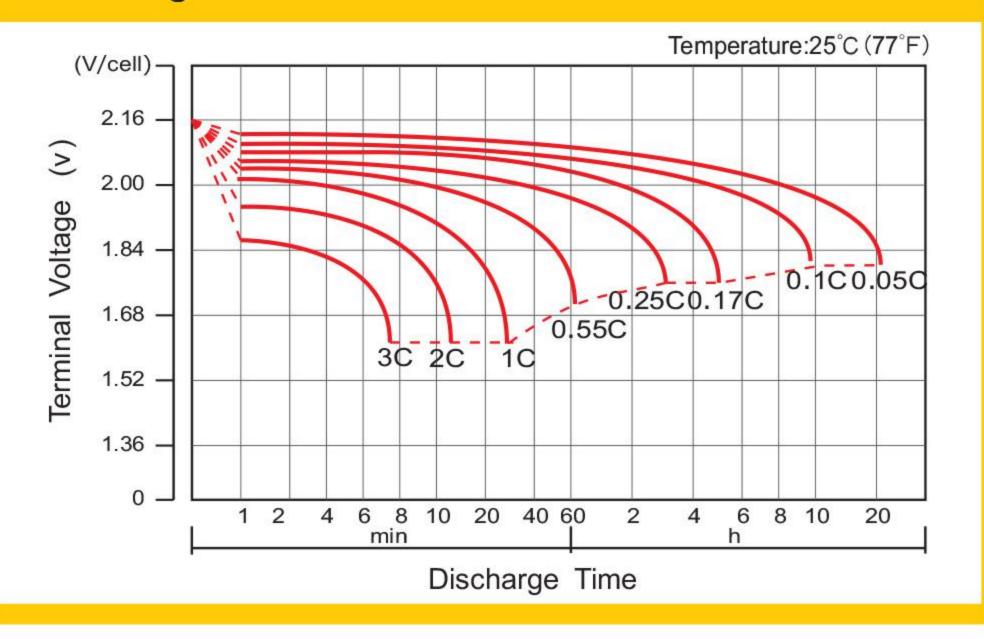
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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.



RT12120(12V12Ah

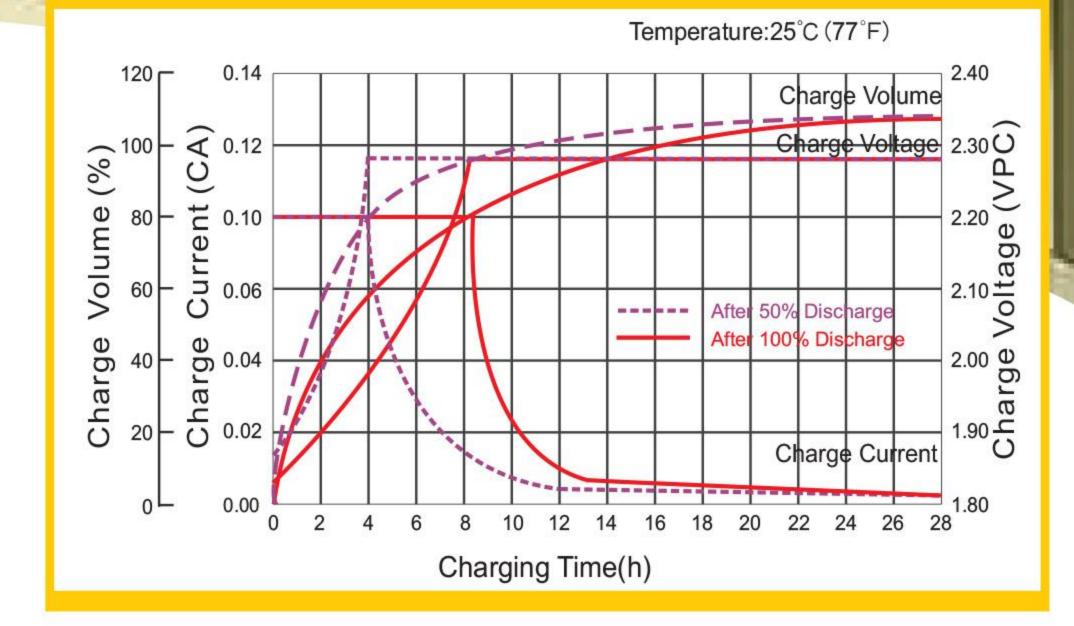
#### **Discharge Characteristics Curve**



**Charge Characteristic Curve For Standby Use** 

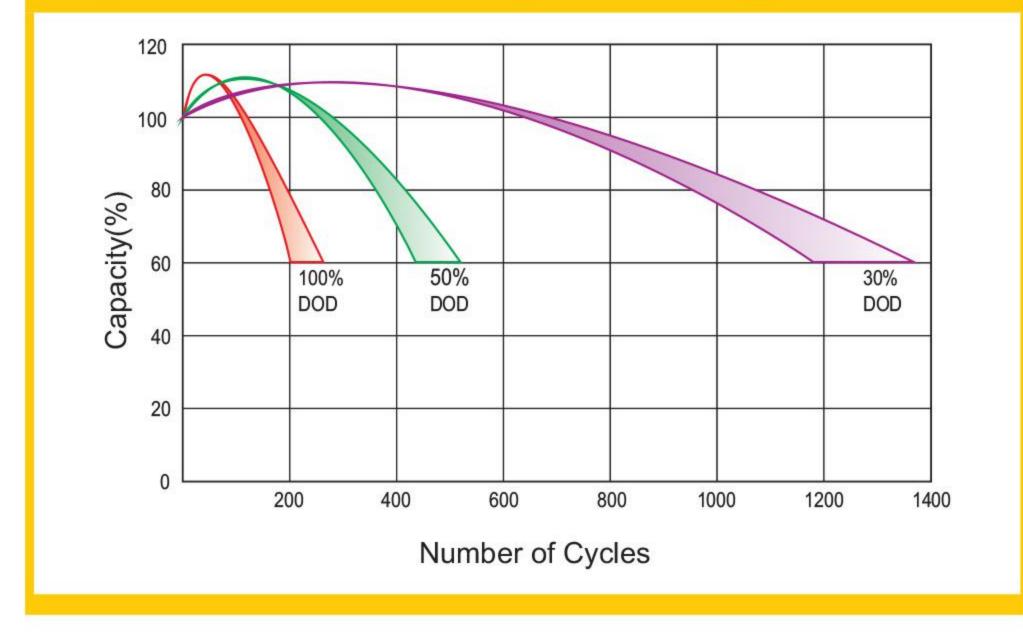
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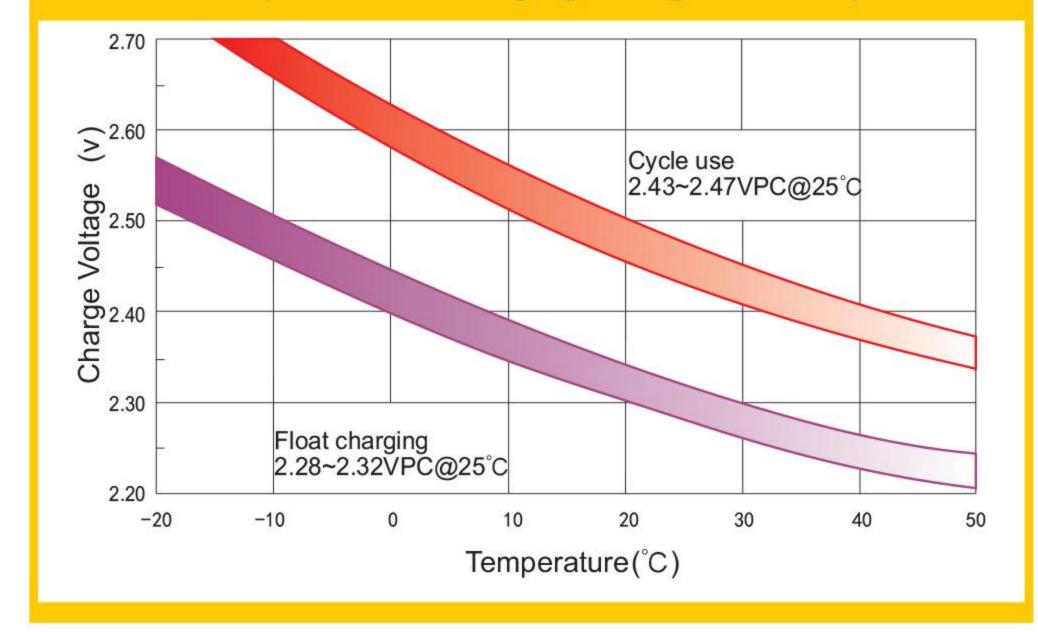
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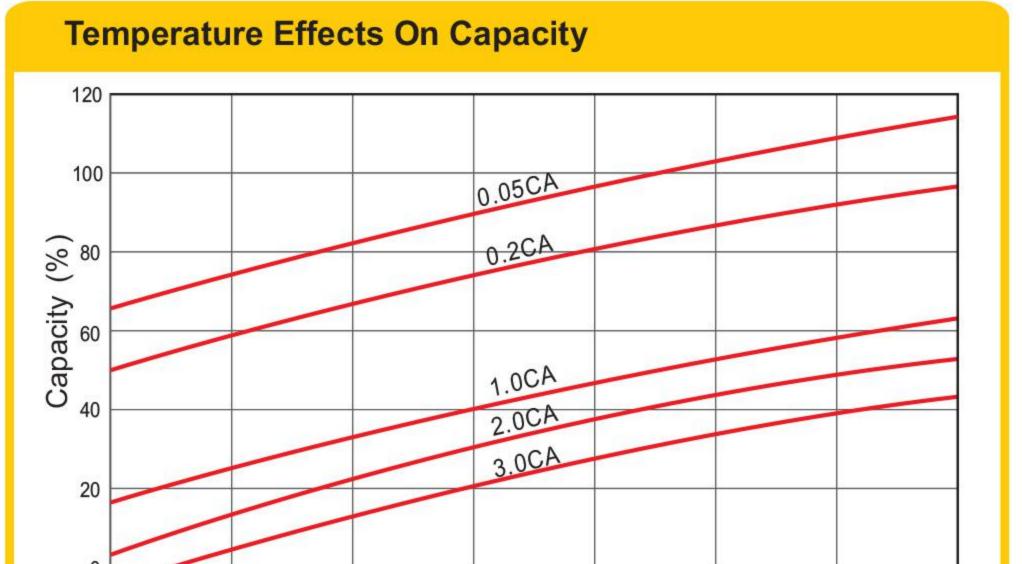


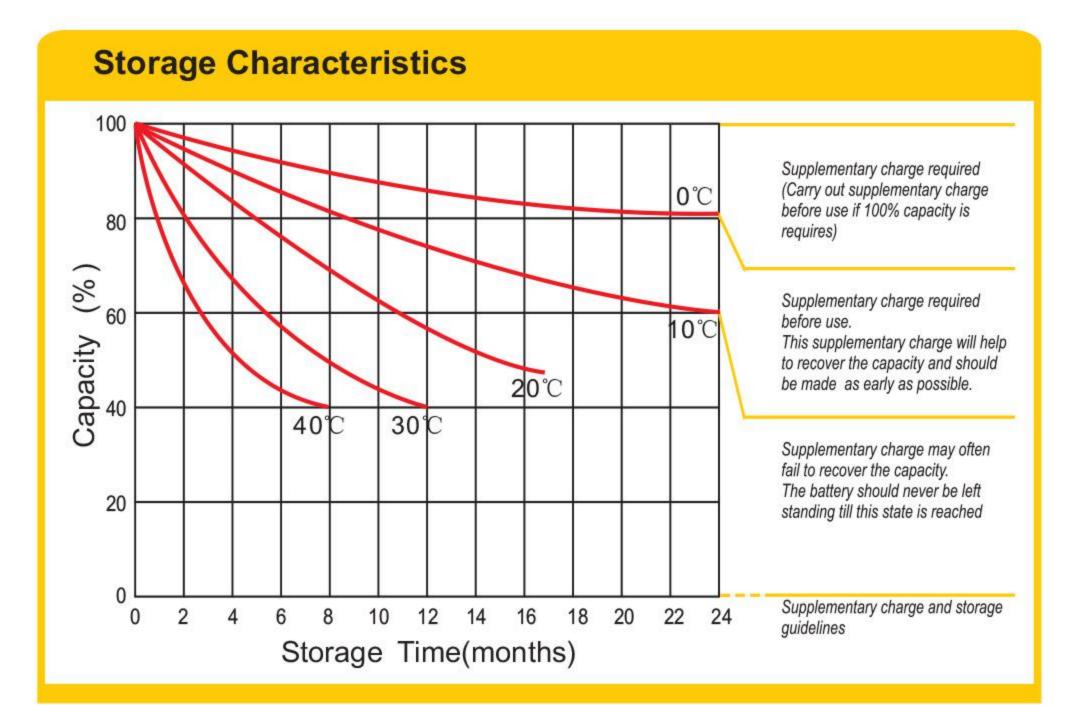
#### **Relationship Between Charging Voltage And Temperature**

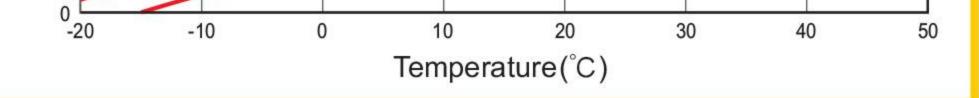
Cycle Life In Relation To Depth Of Discharge

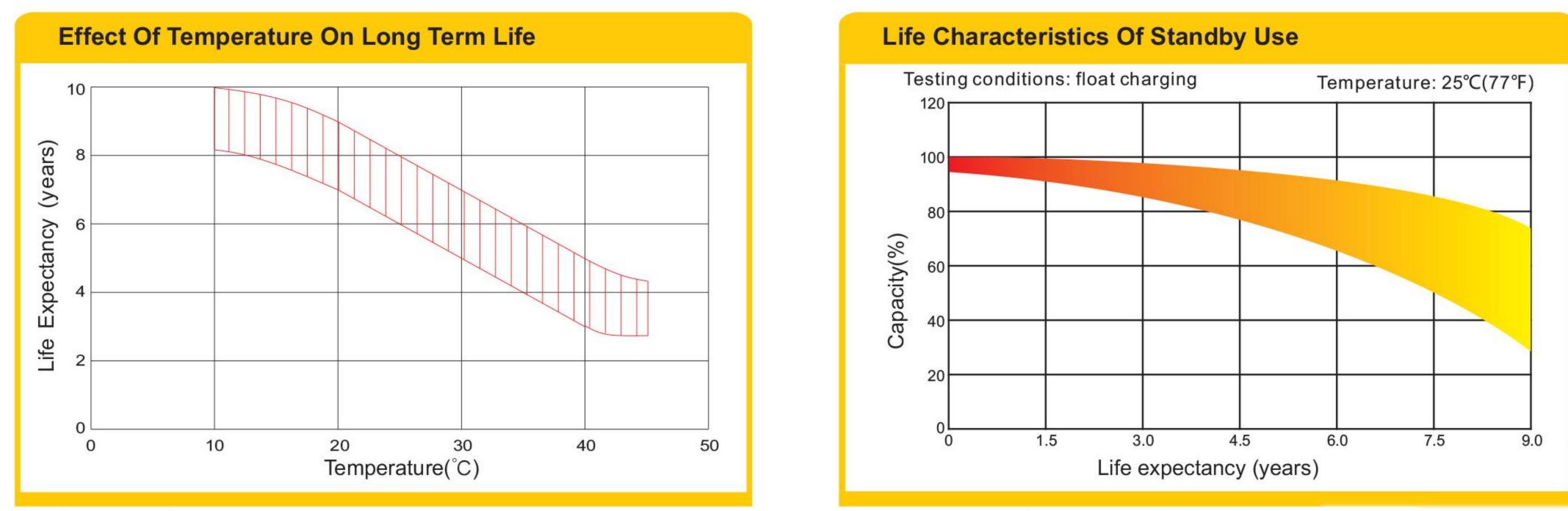












(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain and update the latest information.

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