RITAR®

RT12280(12V28Ah)

Specification

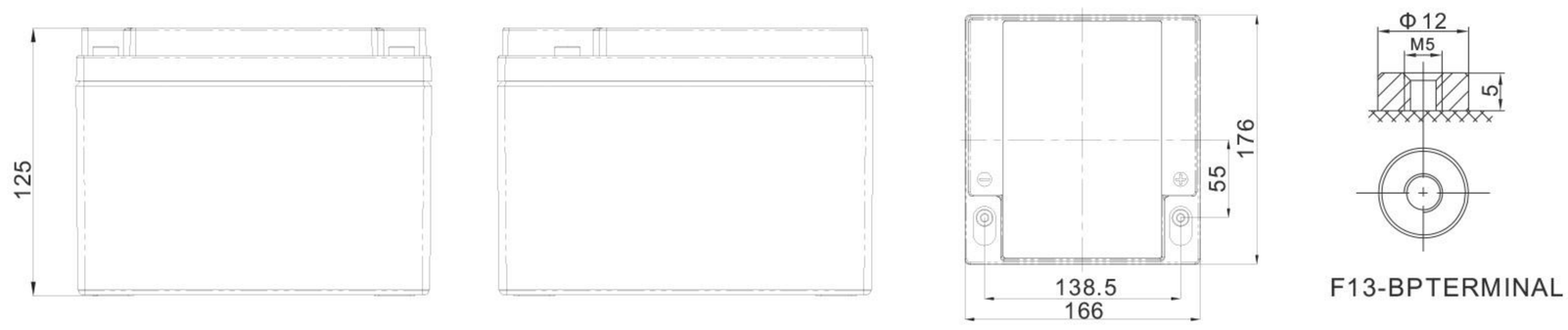
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	28Ah@20hour-rate to 1.75V per cell @25˚C
Weight	Approx. 8.10 Kg (Tolerance±5.0%)
Internal Resistance	Approx. 11 mΩ
Terminal	F3(M5)/F13-BP(M5)T24(M5)
Max. Discharge Current	280A (5 sec)
Short Circuit Current	960A
Design Life	6~8 years (Float charging)
Max. Charging Current	8.4 A
Reference Capacity	C3 21.7AH C5 24.4AH C10 26.2AH C20 28.0AH
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 ,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 OHSAS 18001

MH 28539

Dimensions



Length	166±1.5mm (6.54 inches)
Width	176±1.5mm (6.93 inches)
Height	125±1.5mm (4.92 inches)
Total Height	125±1.5mm (4.92 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	100.9	71.33	51.56	29.61	16.25	10.50	7.896	6.375	5.282	3.399	2.761	1.458
1.65V	93.85	67.40	49.29	28.43	15.69	10.17	7.652	6.202	5.145	3.361	2.727	1.435
1.70V	84.68	62.05	46.17	27.18	15.18	9.833	7.444	6.034	5.011	3.309	2.686	1.417
1.75V	75.87	56.80	42.96	25.97	14.63	9.490	7.222	5.879	4.885	3.264	2.651	1.400
1.80V	66.61	51.41	39.67	24.83	14.07	9.150	6.999	5.710	4.759	3.208	2.617	1.386
1.85V	52.87	42.02	32.92	21.38	12.62	8.384	6.470	5.308	4.438	3.012	2.463	1.316

Constant Power Discharge Characteristics : WPC (25˚C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	167.3	121.2	90.14	53.79	30.54	19.91	15.08	12.24	10.18	6.639	5.427	2.870
1.65V	157.4	116.8	87.45	52.18	29.66	19.37	14.68	11.95	9.954	6.578	5.368	2.829
1.70V	145.2	109.5	83.13	50.38	28.88	18.83	14.34	11.67	9.729	6.492	5.295	2.798
1.75V	133.0	102.0	78.49	48.65	27.99	18.26	13.97	11.42	9.517	6.414	5.231	2.767
1.80V	119.3	94.0	73.50	46.96	27.08	17.69	13.59	11.13	9.304	6.319	5.171	2.743
1.85V	96.66	78.15	61.85	40.85	24.43	16.30	12.62	10.38	8.705	5.946	4.875	2.609

(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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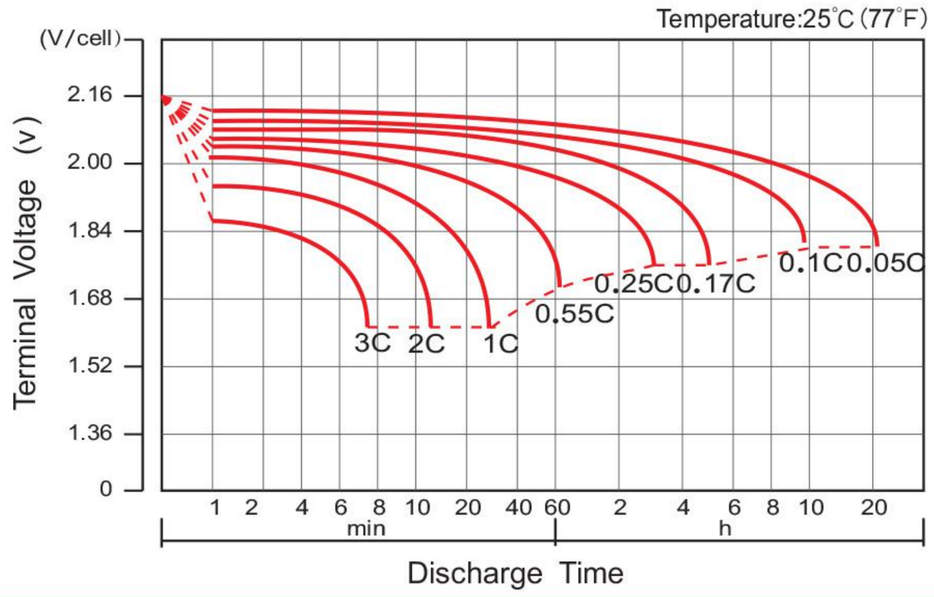
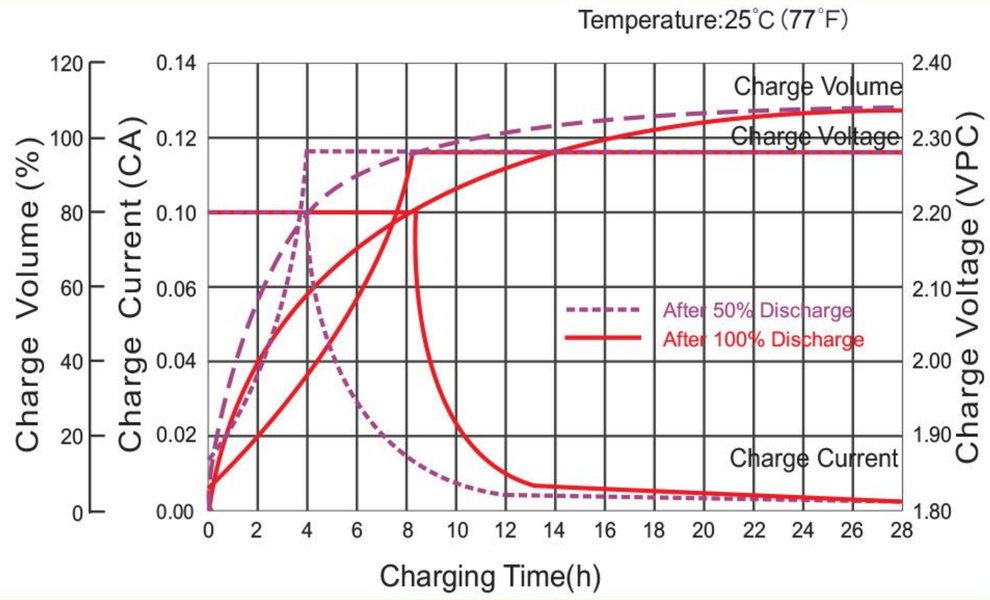
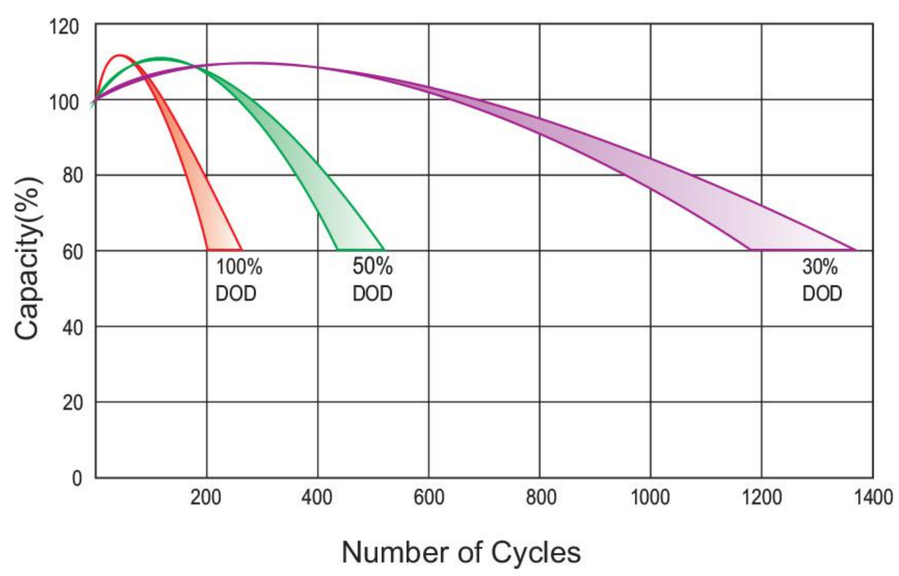
Discharge Characteristics Curve



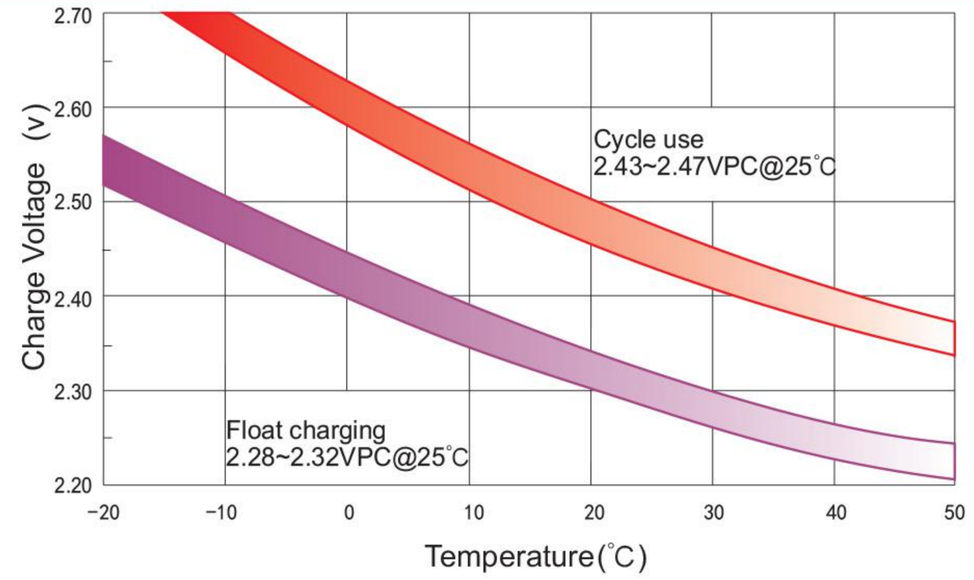
Charge Characteristic Curve For Standby Use



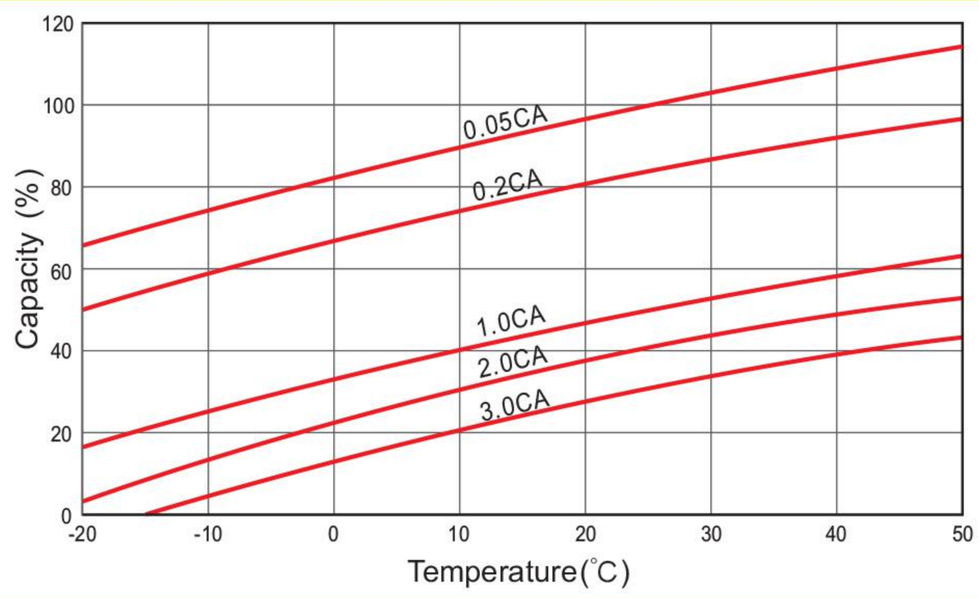
Cycle Life In Relation To Depth Of Discharge



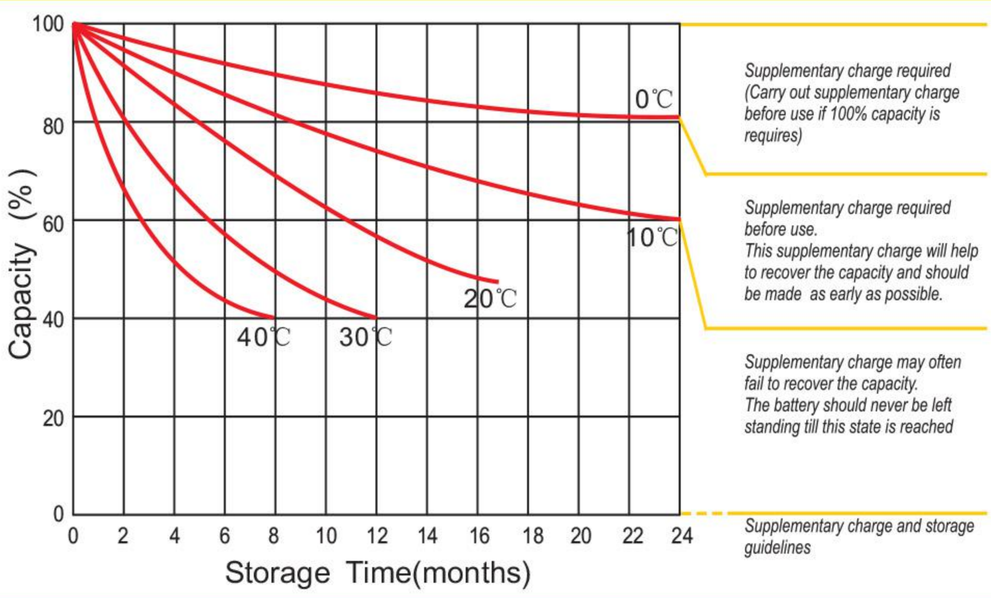
Relationship Between Charging Voltage And Temperature



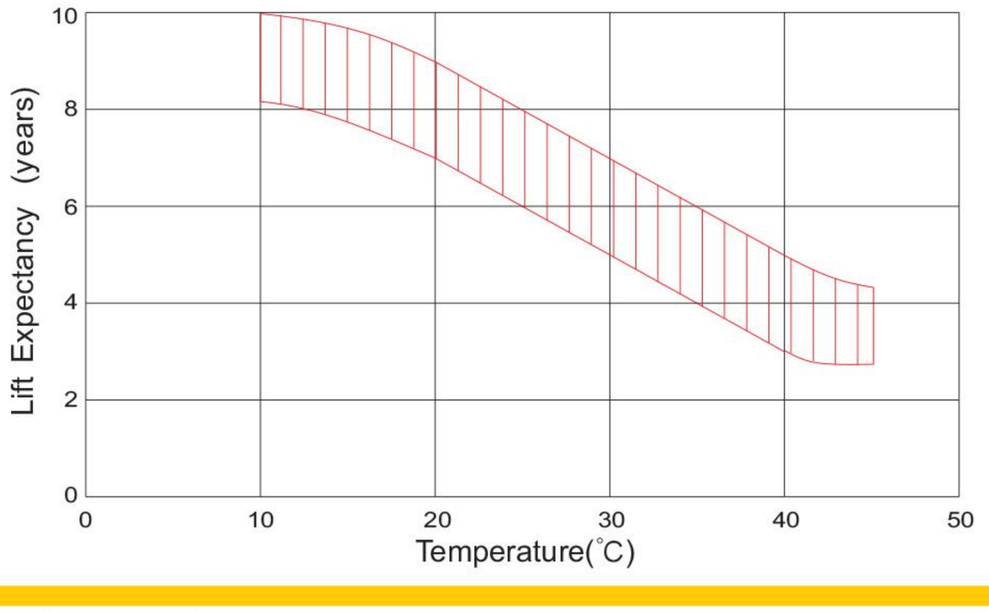
Temperature Effects On Capacity



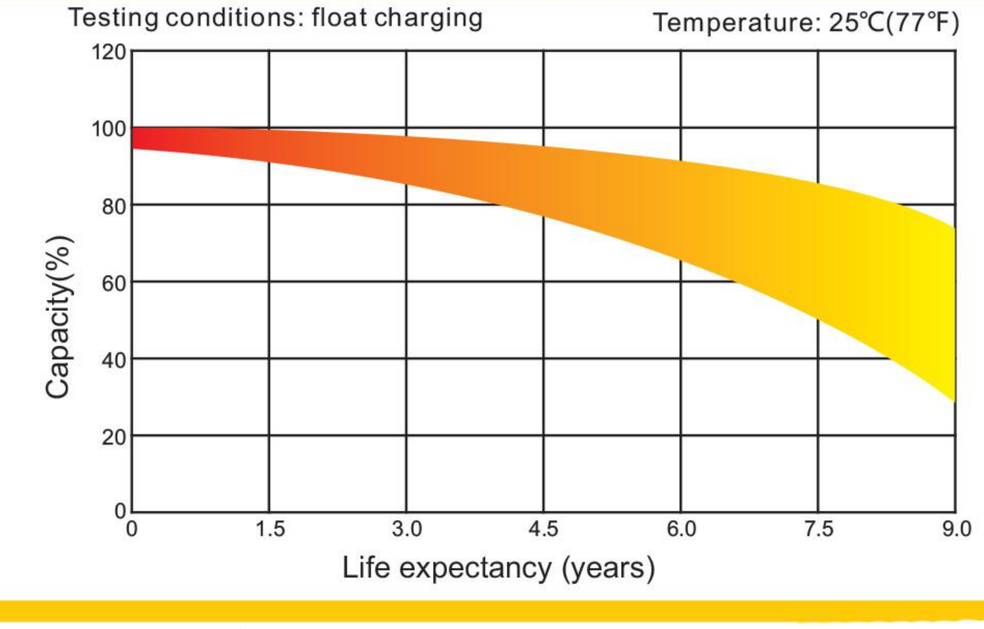
Storage Characteristics



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.