RT12280S(12V28Ah)

Specification

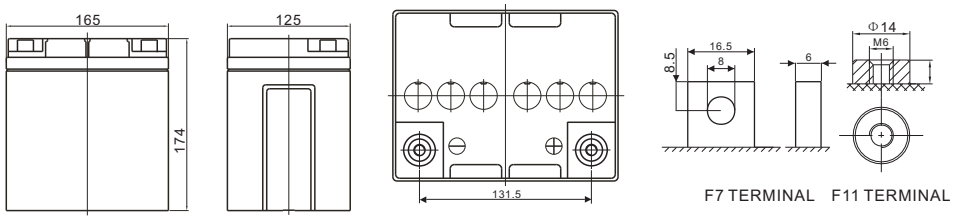
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	28Ah@20hour-rate to 1.75V per cell @25℃
Weight	Approx. 8.80 Kg (Tolerance±5.0%)
Internal Resistance	Approx. 11 mΩ
Terminal	F7(M8)/F11(M6)
Max. Discharge Current	280A (5 sec)
Short Circuit Current	880A
Design Life	6~8 years (Float charging)
Max. Charging Current	8.4 A
Reference Capacity	C3 21.5AH C5 24.2AH C10 25.9AH C20 27.8AH
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 OHSAS 18001

MH 28539 G4M20206-0910-E-16

Dimensions



Length	165±1.5mm (6.50 inches)
Width	125±1.5mm (4.92 inches)
Height	174±1.5mm (6.85 inches)
Total Height	174±1.5mm (6.85 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	95.88	69.19	50.53	29.32	16.09	10.40	7.817	6.311	5.229	3.365	2.733	1.448
1.65V	89.16	65.38	48.31	28.15	15.54	10.07	7.576	6.140	5.093	3.328	2.700	1.425
1.70V	80.44	60.19	45.25	26.90	15.03	9.735	7.370	5.973	4.961	3.276	2.659	1.407
1.75V	72.07	55.09	42.10	25.71	14.48	9.395	7.150	5.820	4.836	3.231	2.624	1.390
1.80V	63.28	49.87	38.88	24.58	13.93	9.059	6.929	5.653	4.711	3.176	2.591	1.376
1.85V	50.23	40.76	32.26	21.17	12.49	8.300	6.405	5.255	4.394	2.982	2.439	1.307

Constant Power Discharge Characteristics : WPC (25℃)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	158.9	117.6	88.33	53.25	30.23	19.71	15.08	12.24	10.18	6.639	5.427	2.850
1.65V	149.5	113.3	85.70	51.66	29.37	19.17	14.68	11.95	9.954	6.578	5.368	2.809
1.70V	138.0	106.2	81.47	49.87	28.59	18.64	14.34	11.67	9.729	6.492	5.295	2.779
1.75V	126.4	98.96	76.92	48.16	27.71	18.07	13.97	11.42	9.517	6.414	5.231	2.748
1.80V	113.3	91.14	72.03	46.49	26.80	17.52	13.59	11.13	9.304	6.319	5.171	2.724
1.85V	91.83	75.81	60.62	40.44	24.19	16.14	12.62	10.38	8.705	5.946	4.875	2.590

(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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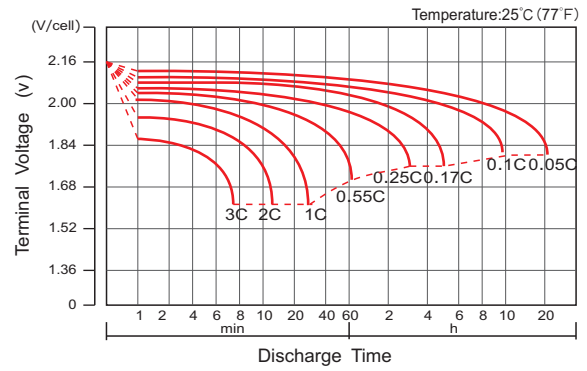
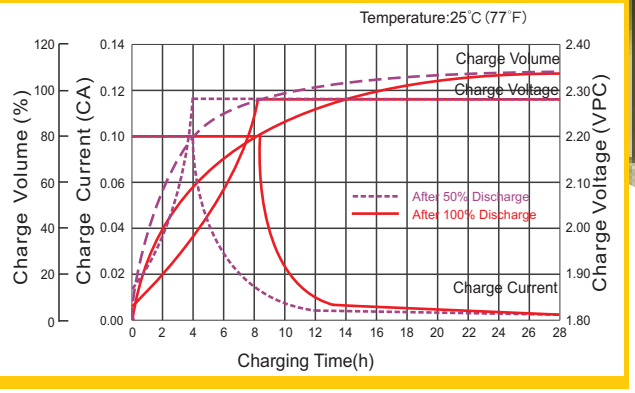
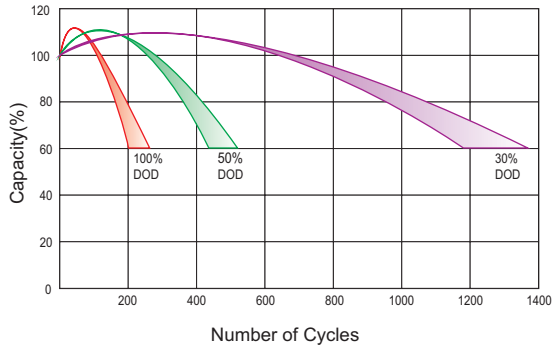
Discharge Characteristics Curve



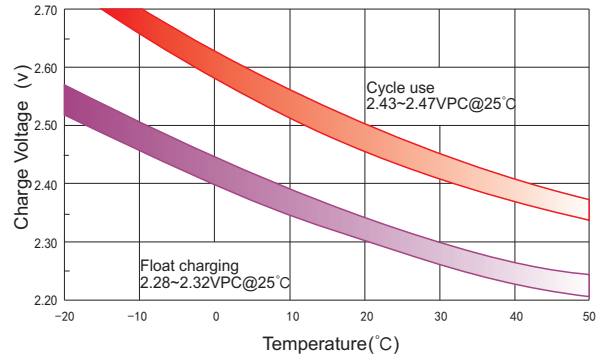
Charge Characteristic Curve For Standby Use



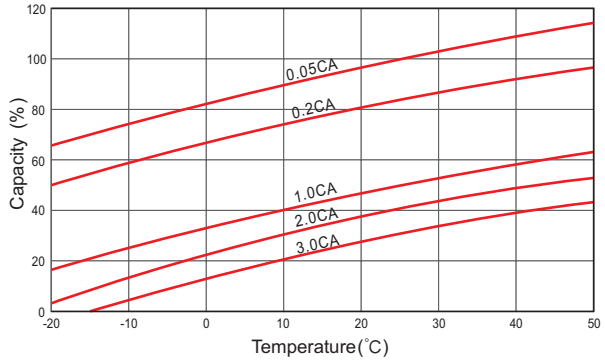
Cycle Life In Relation To Depth Of Discharge



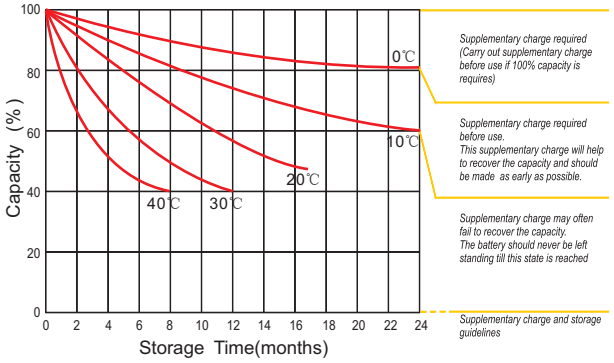
Relationship Between Charging Voltage And Temperature



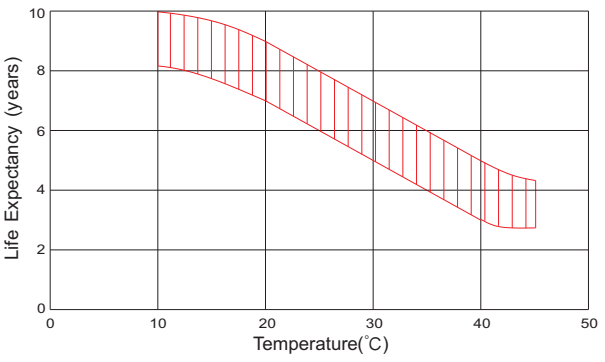
Temperature Effects On Capacity



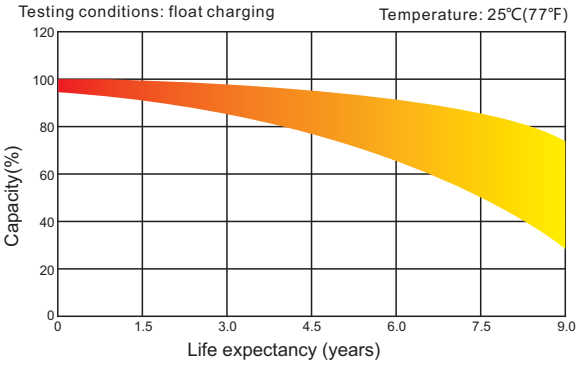
Storage Characteristics



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.

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