



RT 1270 (12V7.0Ah)

RT1270 is a general purpose battery with 5 years life in standby service, or more than 260 cycles at 100% D.O.D by cyclic use. As with all Ritar batteries, all RT models are rechargeable, highly efficient, leak proof and maintenance free.

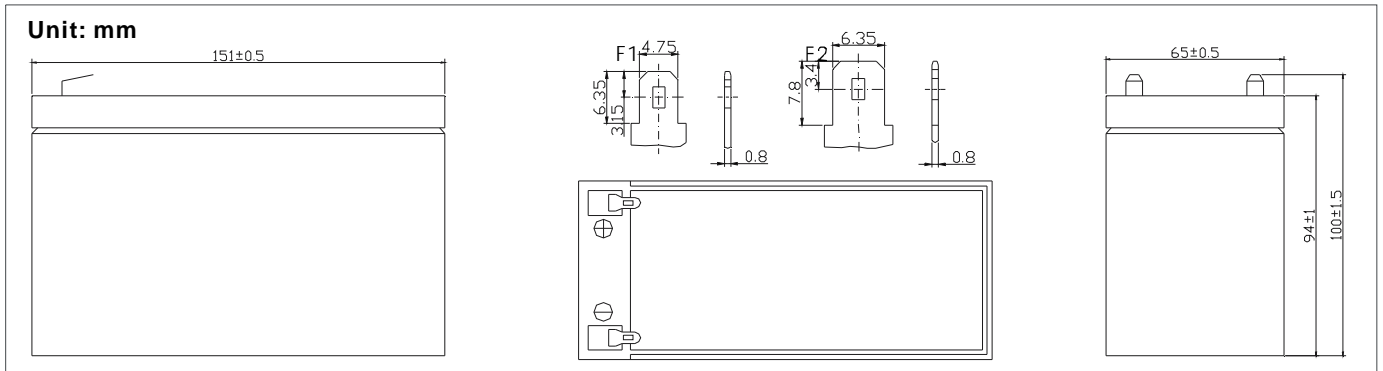


Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	7.0Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 2.15 Kg
Max. Discharge Current	70 A (5 sec)
Internal Resistance	Approx. 25 mΩ
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
Float charging Voltage	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	2.1 A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C
Self Discharge	RITAR batteries can be stored for more than 6 months at 25°C. Please charge batteries before using. For higher temperature, the time interval will be shorter.
Terminal	Faston Tab 187(F1)/Faston tab 250(F2)
Constrainer Material	A.B.S. (UL94-HB) Flammability resistance of UL94-V2 can be available upon request.



Dimensions



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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	29.1	19.4	14.9	8.21	4.86	2.91	1.79	1.47	1.18	0.87	0.69	0.39
1.67V	27.2	18.1	14.0	8.09	4.83	2.89	1.79	1.46	1.18	0.87	0.68	0.37
1.70V	25.7	17.6	13.7	8.02	4.80	2.88	1.78	1.46	1.17	0.87	0.67	0.36
1.75V	23.2	16.4	13.0	7.84	4.73	2.85	1.77	1.45	1.16	0.87	0.67	0.35
1.80V	20.8	15.3	12.3	7.65	4.66	2.80	1.76	1.44	1.16	0.86	0.65	0.34
1.85V	18.3	14.2	11.6	7.46	4.59	2.76	1.74	1.44	1.15	0.86	0.64	0.33

Constant Power Discharge Characteristics Unit: W(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	56.0	36.4	29.6	16.4	9.71	5.82	3.58	2.93	2.78	1.74	1.37	0.76
1.67V	52.5	35.0	28.1	16.2	9.68	5.78	3.57	2.92	2.76	1.74	1.35	0.74
1.70V	51.5	34.0	27.4	16.1	9.66	5.77	3.56	2.92	2.75	1.73	1.34	0.72
1.75V	46.5	32.6	26.0	15.7	9.50	5.68	3.54	2.90	2.74	1.72	1.32	0.69
1.80V	41.5	30.5	24.6	15.3	9.34	5.60	3.51	2.88	2.74	1.72	1.30	0.67
1.85V	36.6	28.4	23.1	14.9	9.18	5.52	3.49	2.86	2.73	1.72	1.28	0.65

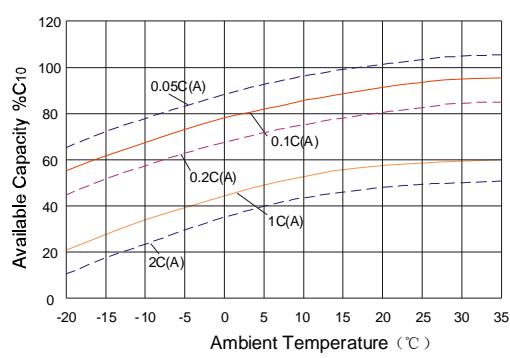
All mentioned values are average values.

RT 1270

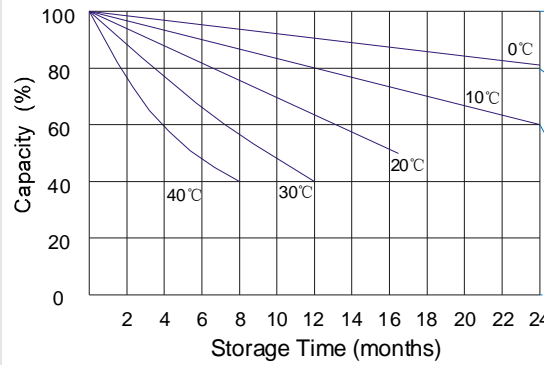
12V7.0Ah



Temperature effects curve



Storage characteristic



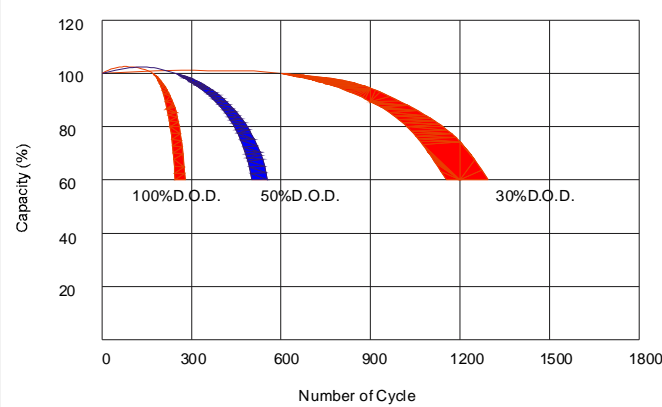
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

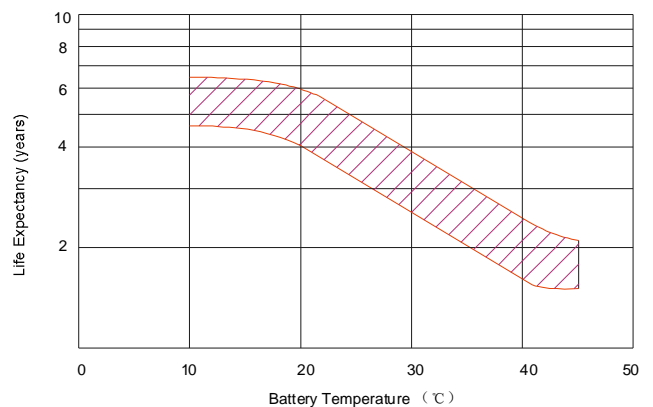
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

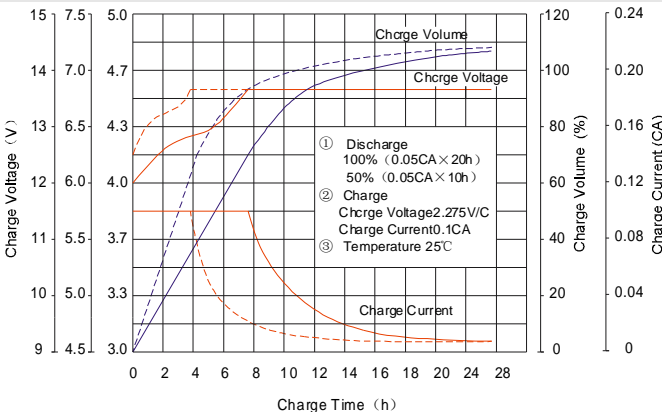
Life characteristics of cyclic use



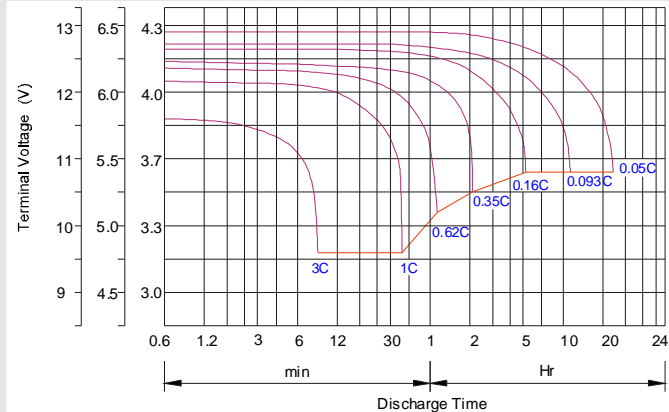
Effect of temperature on long term float life



Charge characteristic Curve for standby use



Discharge characteristic Curve



Charging Procedures

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set point	Allowable range	
Cycle Use	25°C	14.7	14.4~15.0	0.3C
Standby	25°C	13.7	13.6~13.8	0.3C

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Charging Procedures(6V series)

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set point	Allowable range	
Cycle Use	25°C	7.35	7.25~7.45	0.3C
Standby	25°C	6.85	6.8~6.9	0.3C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	14.4~15.0V, 5~11h, Max. Current 0.1CA
Constant Current	0.1CA×5h
Fast	0.3CA×1.7h

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