RA12-150F (12V150Ah)

RA12-150F is front terminal type, designed for Telecom and UPS use with 10 years life time based Eurobat standard. As with all Ritar batteries, all front terminal models are rechargeable, highly efficient, leak proof and maintenance free.

RITAR®

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	150Ah@10hr-rate to 1.75V per cell @25°C
Weight	Approx. 45 Kg
Max. Discharge Current	750 A (5 sec)
Internal Resistance	Approx. 4 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	45 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	Terminal F9/Thread insert & Bolt (M8)
Container Material	A.B.S. (UL94-HB) Flammability resistance of UL94-V1 can be available upon request.

MH28539

Q4M20206-0910-E-16

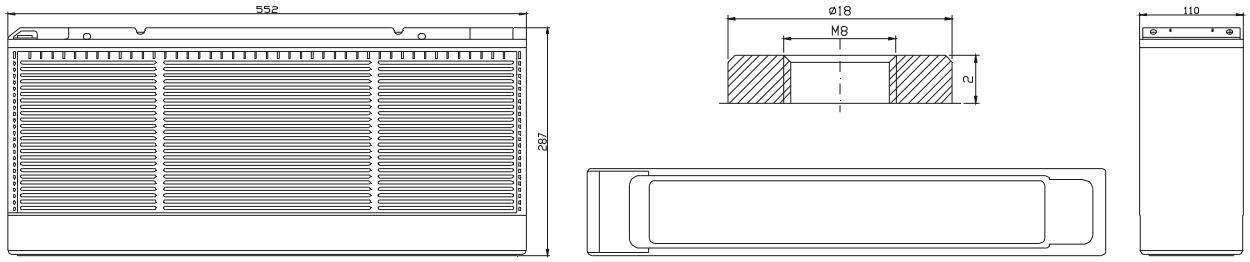
EMC tested

ISO9001:2000 Certificate

Dimensions

Unit: mm

Terminal F9



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	561	402	293	173	97.5	59.9	39.2	32.4	25.5	18.5	15.6	8.3
1.67V	546	383	287	170	97.1	59.4	39.0	32.3	25.4	18.3	15.5	8.1
1.70V	515	369	282	168	96.2	59.0	38.7	32.1	25.2	18.2	15.3	8.0
1.75V	462	341	269	164	95.3	58.5	38.6	31.8	24.9	18.0	15.2	7.8
1.80V	417	311	248	157	93.0	57.5	37.5	31.1	24.5	17.7	15.0	7.7
1.85V	363	278	222	147	88.4	54.9	35.9	29.6	23.4	17.0	14.6	7.2

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	1006	735	542	324	185.9	114.8	75.3	62.4	49.2	35.7	29.3	15.5
1.67V	985	702	530	320	185.0	114.3	75.2	62.3	48.9	35.6	29.0	15.3
1.70V	930	679	523	317	183.6	113.3	74.7	62.0	48.8	35.3	28.8	15.2
1.75V	837	627	499	309	181.8	112.2	74.3	61.5	48.3	35.0	28.5	15.0
1.80V	753	570	458	295	177.3	110.6	72.5	59.9	47.6	34.2	28.2	14.9
1.85V	650	506	409	277	168.0	105.5	68.9	57.0	45.2	33.0	27.3	14.3

All mentioned values are average values.

RA12-150F

12V150Ah

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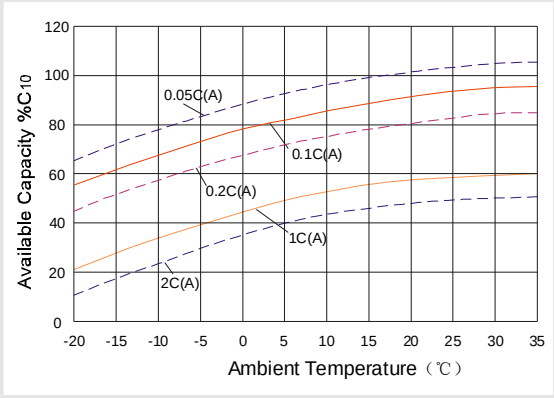
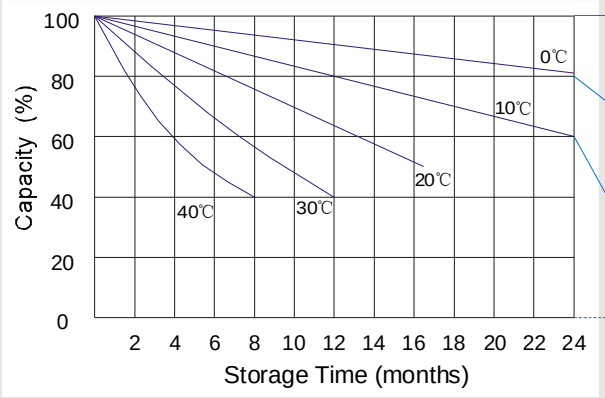
Temperature effects curve



Storage characteristi



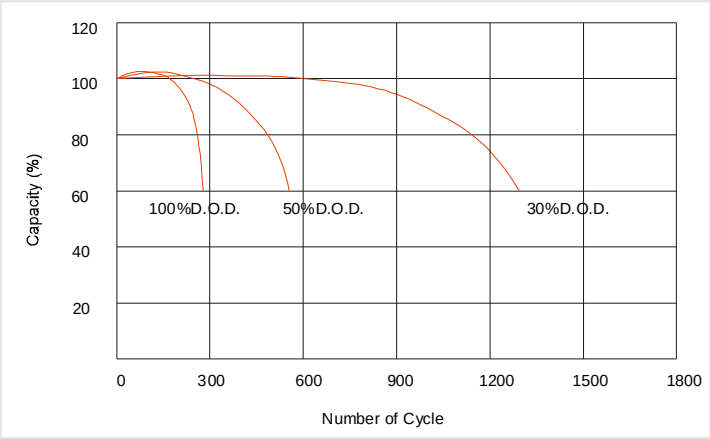
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is requires)

Supplementary charge required before use. This supplementary charge will he to re cover the capacity and shoul be made as early as possible.

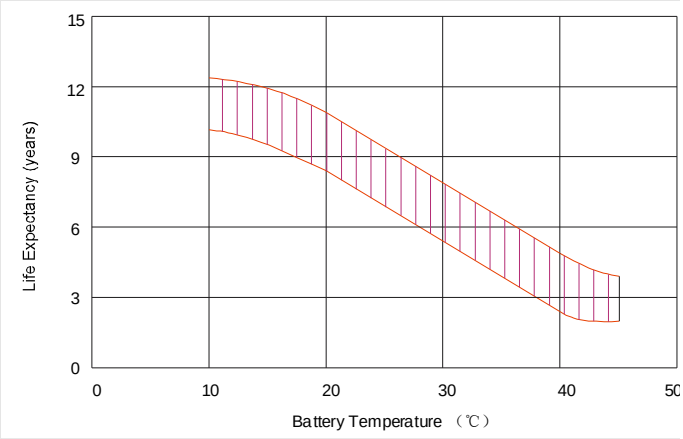
Supplementary charge may ofter fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and stora guidelines

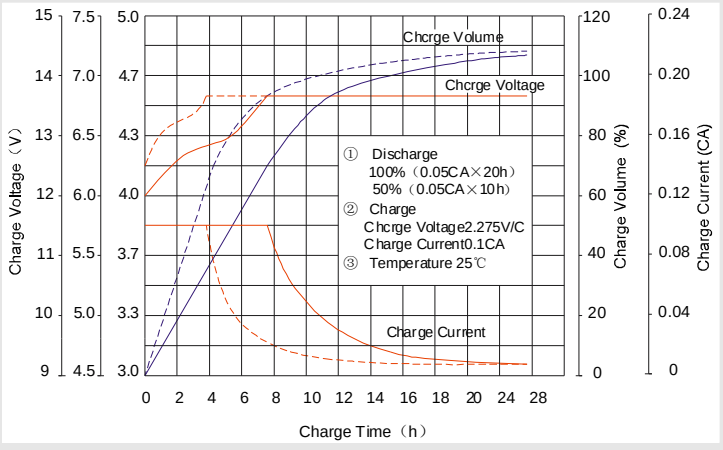
Life characteristics of cyclic use



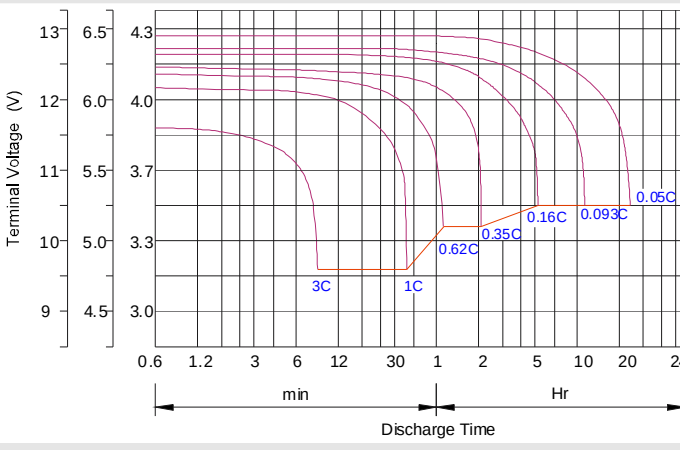
Effect of temperature on long term float li



Charge characteristic Curve for standby use



Discharge characteristic Curv



Charging Procedures(12V series)

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

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

Charging Method:

Constant Voltage	-0.2Cx2h +14.4~15.0V,24h,Max. Current 0.3CA
Constant Current	-0.2Cx2h +0.1CAx12h

Discharge Current VS. Discharge Volta

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	（A）≤0.2C	0.2C＜（A）＜1.0C	（A）≥1.(

Charging Procedures(6V seri

Application	Charge Voltage (V)			Max. Char 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

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