



# RA12-134D (12V134Ah)

RA12-134D is AGM deep cycle type, especially designed for cyclic use. By using strong grid and specific alloy, this series battery have excellent performance on 1 - 5 hrs large current discharge and up to 40% more life time than general models.



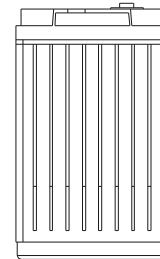
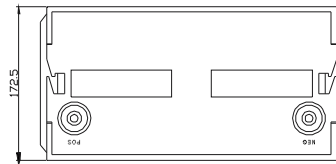
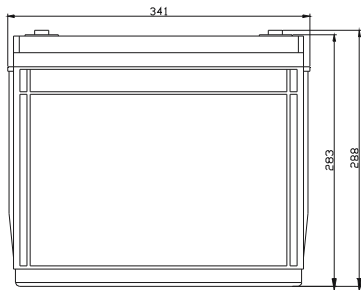
## Specification

<b>Cells Per Unit</b>	6
<b>Voltage Per Unit</b>	12
<b>Capacity</b>	134Ah @ 10hr-rate to 1.75V per cell @ 25°C
<b>Weight</b>	Approx. 41.5 Kg
<b>Max. Discharge Current</b>	600 A (5 sec)
<b>Internal Resistance</b>	Approx. 4 mΩ
<b>Operating Temperature Range</b>	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
<b>Normal Operating Temperature Range</b>	25°C±5°C
<b>Float charging Voltage</b>	13.6 to 13.8 VDC/unit Average at 25°C
<b>Recommended Maximum Charging Current Limit</b>	36.0 A
<b>Equalization and Cycle Service</b>	14.4 to 15.0 VDC/unit Average at 25°C
<b>Self Discharge</b>	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.
<b>Terminal</b>	Terminal F12
<b>Container Material</b>	A.B.S. (UL94-HB) Flammability resistance of UL94-V1 can be available upon request.

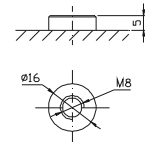


## Dimensions

Unit: mm



Terminal F12



## 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	501	359	261	154	87.1	53.5	35.0	28.9	22.8	16.5	13.9	7.4
1.67V	488	342	256	152	86.7	53.1	34.8	28.8	22.6	16.3	13.8	7.2
1.70V	460	330	252	150	85.9	52.7	34.6	28.7	22.5	16.2	13.7	7.1
1.75V	413	304	240	146	85.1	52.3	34.4	28.4	22.2	16.1	13.5	7.0
1.80V	373	277	221	140	83.1	51.3	33.5	27.7	21.8	15.8	13.4	6.8
1.85V	324	248	198	131	78.9	49.0	32.0	26.4	20.9	15.1	13.0	6.4

## 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	898	657	484	290	166.0	102.5	67.3	55.7	44.0	31.9	26.1	13.8
1.67V	880	628	474	286	165.2	102.1	67.1	55.6	43.7	31.8	25.9	13.7
1.70V	831	607	467	283	164.0	101.2	66.7	55.3	43.6	31.5	25.7	13.5
1.75V	748	561	446	276	162.4	100.2	66.3	54.9	43.1	31.2	25.5	13.4
1.80V	673	509	409	264	158.4	98.8	64.7	53.5	42.5	30.6	25.2	13.3
1.85V	581	452	366	247	150.1	94.2	61.5	50.9	40.3	29.5	24.4	12.7

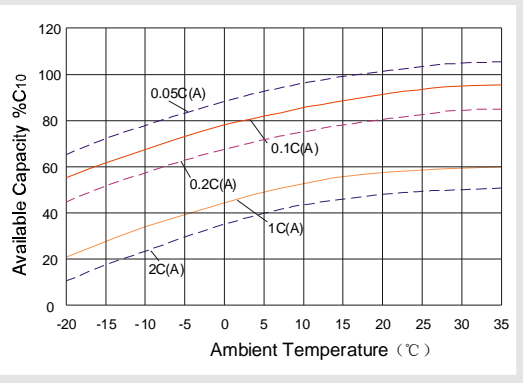
All mentioned values are average values.

# RA12-134D

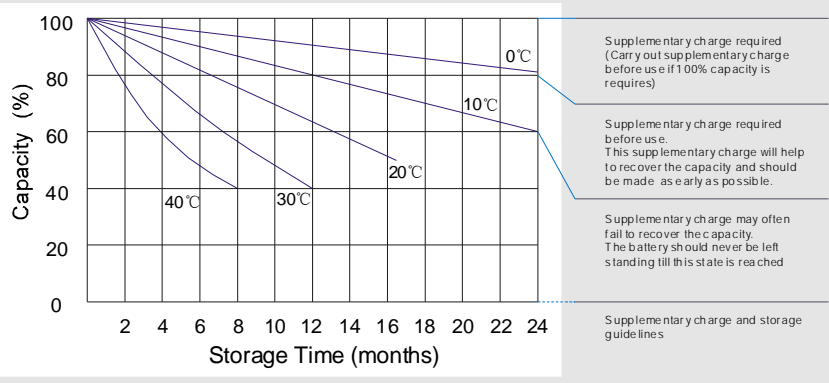
# 12V134Ah



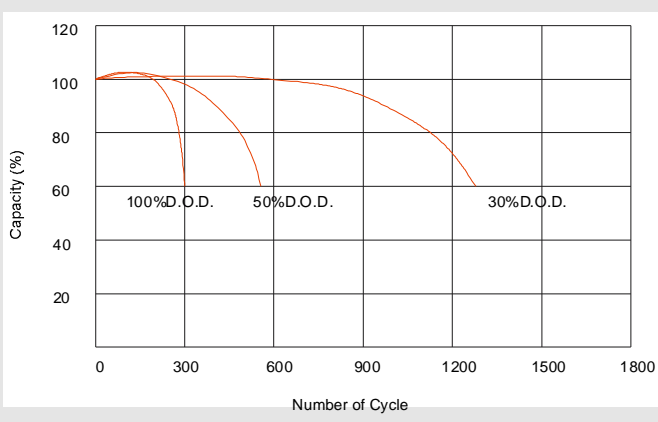
## Temperature effects curve



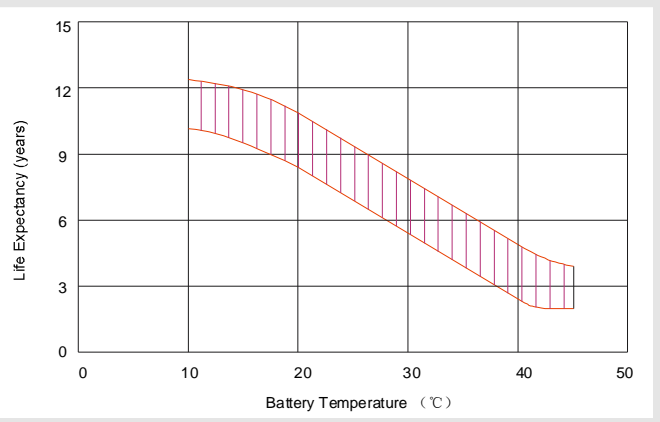
## Storage characteristic



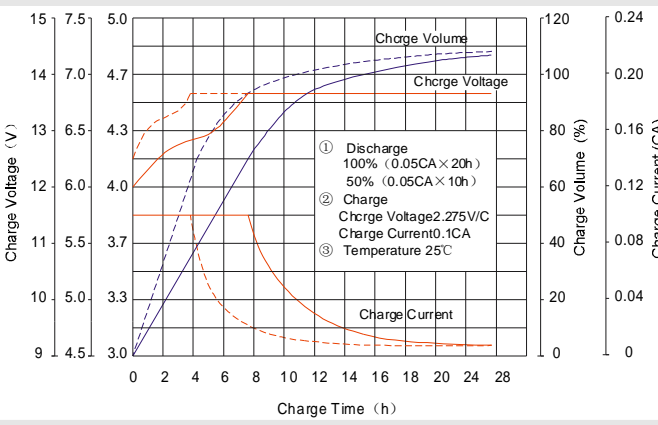
## Life characteristics of cyclic use



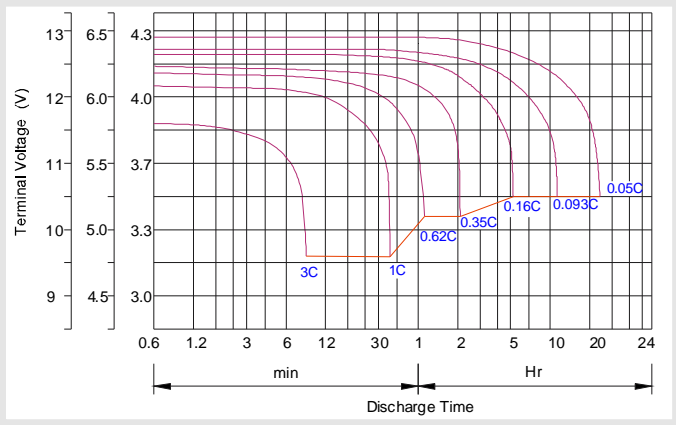
## Effect of temperature on long term float life



## Charge characteristic Curve for standby use



## Discharge characteristic Curve



## 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

## 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	-0.2Cx2h +14.4~15.0V,24h,Max. Current 0.3CA
Constant Current	-0.2Cx2h +0.1CAx12h
Fast	-0.2Cx2h +0.3CAx4h

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