



# RA12-134D (12V134Ah)

RA12-134D is AGM Deep cycle battery with 10 years floating design life, specially designed for frequent cyclic discharge usage. By using strong grid and specific paste plate, it makes battery have 30% more cyclic life time than standby series. It is applicable for solar energy system, golf cart, electric wheelchair, etc..



## Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	134Ah@10hr-rate to 1.75V per cell @25°C
Weight	Approx. 41.5 Kg
Max. Discharge Current	1340 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	40.2A
Equalization and Cycle Service	14.6 to 14.8 VDC/unit Average at 25°C
Self Discharge	RITAR batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Terminal F12
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V0 can be available upon request. Thermally welded container.



MH28539



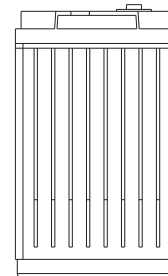
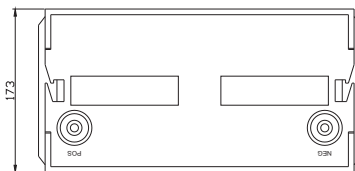
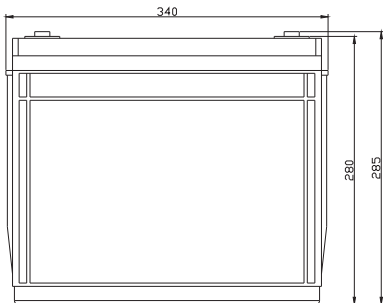
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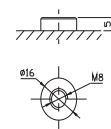
ISO9001:2000 Certificate

## Dimensions

Unit: mm Dimension: 340(L)×173(W)×285(H)



Terminal F12



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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	461.9	331.0	240.8	147.9	83.62	47.73	33.58	27.79	21.87	15.98	13.51	7.145
10.0V	449.5	314.9	235.9	145.5	83.23	47.38	33.45	27.66	21.74	15.85	13.38	7.015
10.2V	423.6	303.8	232.2	144.2	82.46	47.02	33.19	27.53	21.61	15.72	13.25	6.885
10.5V	380.4	280.3	221.1	140.6	81.69	46.66	33.06	27.27	21.35	15.59	13.12	6.756
10.8V	343.3	255.6	203.8	134.4	79.76	45.82	32.16	26.63	20.97	15.33	12.99	6.626
11.1V	298.9	228.5	182.8	125.9	75.77	43.79	30.74	25.34	20.07	14.68	12.60	6.236

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	4399	3217	2368	1669	956.3	549.1	387.5	321.1	253.2	185.4	151.9	80.25
10.0V	4309	3072	2319	1649	951.7	547.0	386.7	320.3	251.6	184.6	150.4	79.47
10.2V	4068	2970	2288	1629	944.7	541.9	384.4	318.8	250.8	183.1	149.6	78.69
10.5V	3663	2744	2181	1592	935.5	536.9	382.1	316.5	248.5	181.5	148.0	77.91
10.8V	3295	2492	2004	1520	912.3	529.0	372.8	308.0	244.7	177.6	146.5	77.13
11.1V	2844	2213	1790	1424	864.5	504.6	354.3	293.3	232.3	171.4	141.8	74.01

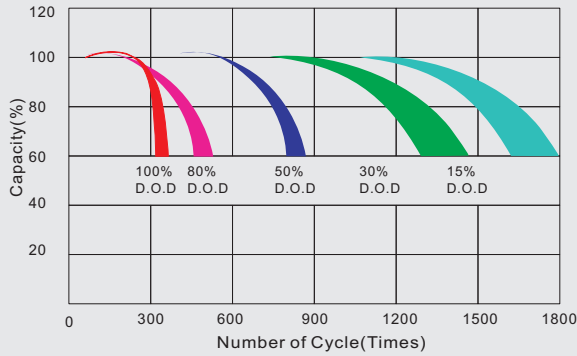
All mentioned values are average values.

# RA12-134D

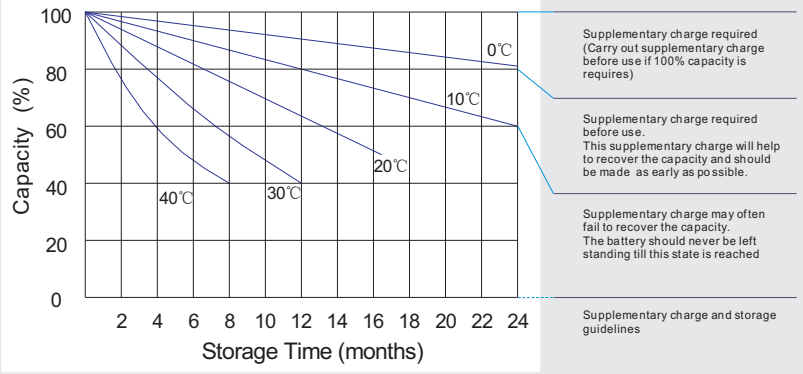
12V134Ah



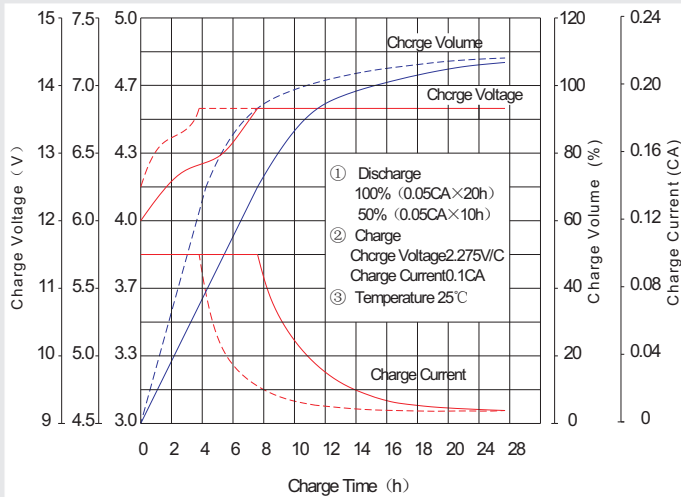
## Life characteristics of cyclic use



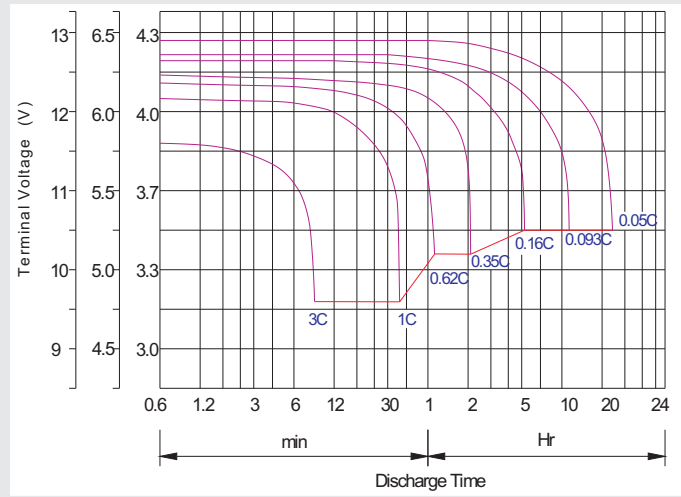
## Storage characteristic



## Charge characteristic Curve for standby use



## Discharge characteristic Curve



## Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

## 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

## Maintenance & Cautions

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

Charging Method:

Constant Voltage	-0.2Cx2h+2.4~2.45V/Cellx24h, Max. Current 0.3CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h

Cycle service
※ Avoid battery over discharge, especially battery series connection use.
※ Charged with recommend voltage, ensure battery can be full recharged.
In general, recharge capacity should be 1.1-1.15 times discharge capacity.
※ Effect of temperature on cycle charge voltage: -4mV/°C/Cell.
※ There are a number of factors that will affect the length of cyclic service.
The most significant are depth of discharge, ambient temperature, discharge rate, and the manner in which the battery is recharged.
Generally speaking, the most important factors is depth of discharge.