



# RA12-80A(12V80Ah)

## Specification

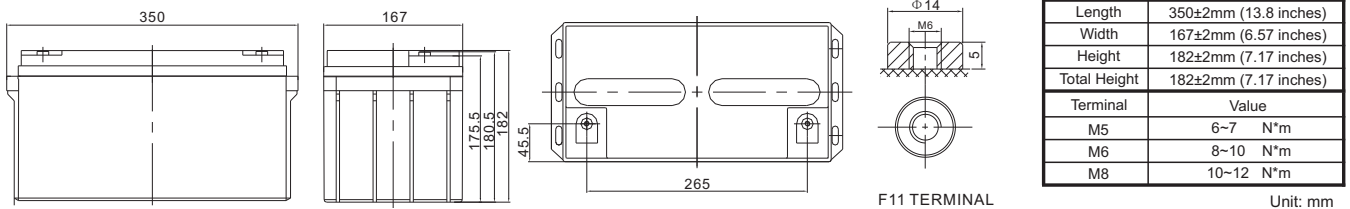
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	80Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 22.7 Kg (Tolerance ±2.0%)
Internal Resistance	Approx. 5.5 mΩ
Terminal	F5(M8)/F11(M6)
Max. Discharge Current	800A (5 sec)
Short Circuit Current	1780A
Design Life	12 years (Float charging)
Recommended Maximum Charging Current	24 A
Reference Capacity	C3 62.1AH C5 71.5AH C10 80.0AH C20 84.6AH
Standby Use Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
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
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



RA series is a general purpose battery with 12 years design life in float service. It meets with IEC, JIS, BS and YDT standards. With advanced AGM valve regulated technology and high purity raw material, the RA series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, Telecom, power grid, medical equipment, emergency light and security system applications.



## Dimensions



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

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	192.6	145.0	83.9	49.8	29.8	21.9	17.8	15.0	10.0	8.53	4.37
1.65V	186.8	141.2	82.1	48.8	29.4	21.6	17.6	14.8	9.93	8.45	4.34
1.70V	179.3	136.2	79.7	47.6	28.8	21.2	17.3	14.6	9.79	8.34	4.29
1.75V	169.6	129.7	76.5	46.0	28.0	20.7	16.9	14.3	9.61	8.20	4.23
1.80V	157.1	121.4	72.3	43.9	27.0	20.0	16.4	13.9	9.37	8.00	4.15
1.85V	141.6	110.8	67.1	41.2	25.7	19.1	15.7	13.4	9.06	7.75	4.04

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

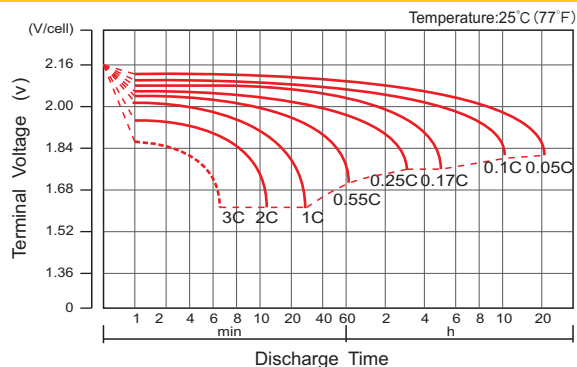
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	332.3	257.4	154.7	94.4	57.3	42.4	34.6	29.4	19.9	17.0	8.74
1.65V	330.9	255.9	153.6	93.7	56.9	42.1	34.4	29.2	19.7	16.9	8.69
1.70V	321.1	249.0	149.9	91.6	56.0	41.5	33.9	28.8	19.5	16.7	8.60
1.75V	309.2	240.6	145.4	89.0	54.7	40.6	33.3	28.3	19.2	16.4	8.49
1.80V	291.5	228.2	138.9	85.3	53.0	39.5	32.4	27.6	18.7	16.1	8.33
1.85V	267.3	211.3	130.0	80.7	50.7	37.9	31.1	26.6	18.2	15.6	8.12

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

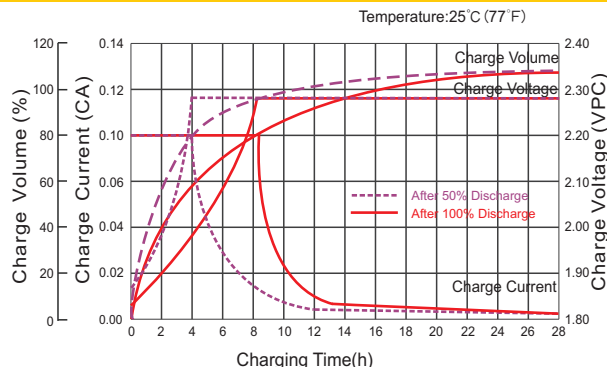
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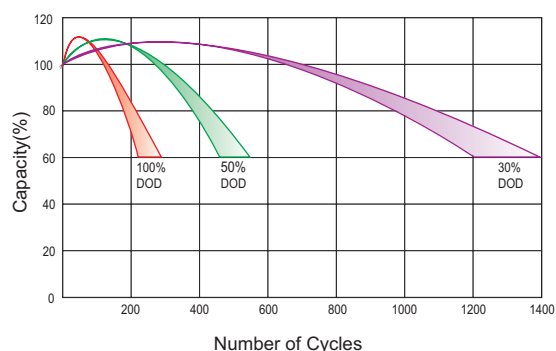
## Discharge Characteristics Curve



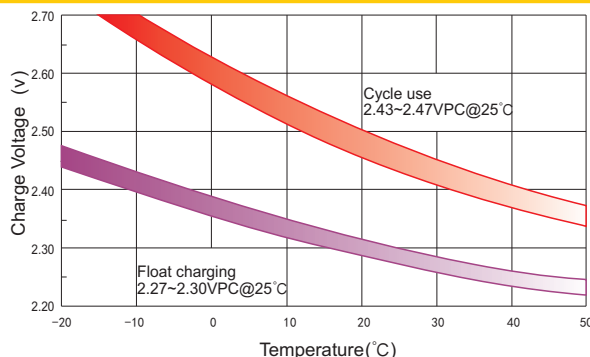
## Charge Characteristic Curve For Standby Use



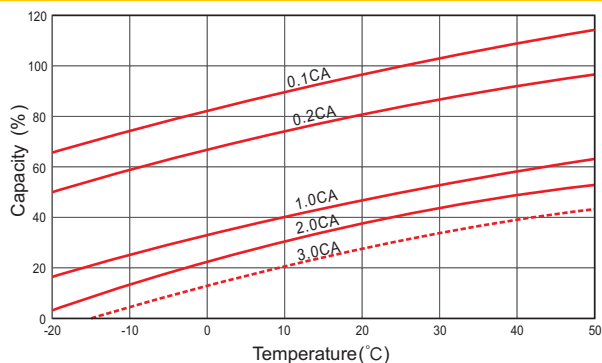
## Cycle Life In Relation To Depth Of Discharge



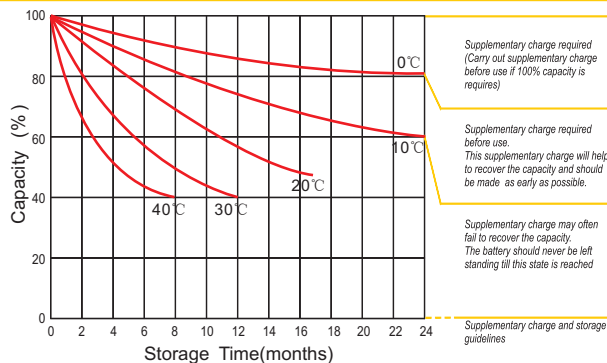
## Relationship Between Charging Voltage And Temperature



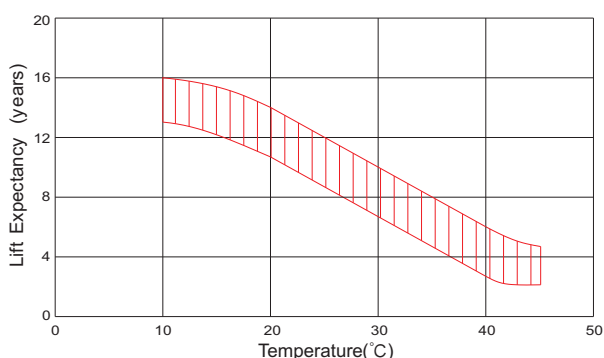
## Temperature Effects On Capacity



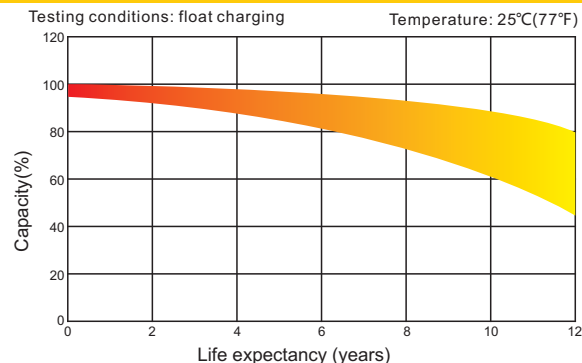
## Storage Characteristics



## 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.