



# RA12-70(12V70Ah)

## Specification

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	70Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 19.5 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 7.0 mΩ
Terminal	F5(M8)/F11(M6)
Max. Discharge Current	700A (5 sec)
Short Circuit Current	1520A
Design Life	12 years (Float charging)
Max. Charging Current	21.0 A
Reference Capacity	C3 54.3AH C5 61.0AH C10 70.0AH C20 74.2AH
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, GB/T and YD/T 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.



ISO 9001



ISO 14001



OHSAS 18001

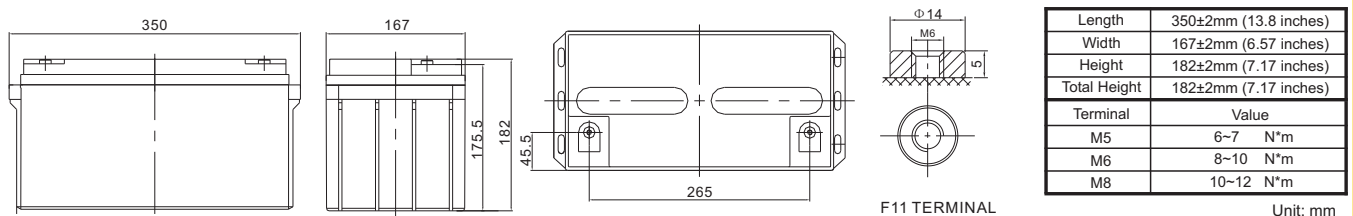


MH 28539



G4M20206-0910-E-16

## Dimensions



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

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	170.8	129.8	76.7	42.8	25.5	19.7	15.5	13.2	8.88	7.38	3.86
1.65V	161.4	124.1	73.6	41.3	24.7	19.1	15.1	12.9	8.78	7.29	3.80
1.70V	148.6	116.2	70.3	40.0	23.9	18.6	14.7	12.5	8.64	7.18	3.76
1.75V	136.0	108.1	67.2	38.5	23.0	18.1	14.3	12.2	8.52	7.09	3.71
1.80V	123.2	99.9	64.3	37.0	22.2	17.5	13.9	11.9	8.38	7.00	3.67
1.85V	100.6	82.9	55.3	33.2	20.3	16.2	12.9	11.1	7.86	6.59	3.49

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

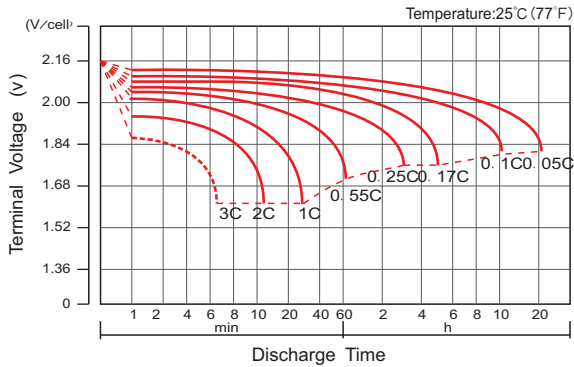
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	290.4	226.9	139.2	80.4	48.3	37.7	29.8	25.5	17.3	14.5	7.61
1.65V	279.7	220.1	135.1	78.1	47.0	36.7	29.1	24.9	17.2	14.4	7.50
1.70V	262.2	209.3	130.4	76.0	45.7	35.9	28.4	24.3	16.9	14.2	7.41
1.75V	244.4	197.6	125.9	73.7	44.3	34.9	27.8	23.8	16.7	14.0	7.33
1.80V	225.1	185.0	121.6	71.3	42.9	34.0	27.1	23.3	16.5	13.8	7.27
1.85V	187.2	155.7	105.7	64.3	39.5	31.6	25.3	21.8	15.5	13.0	6.91

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C<sub>10</sub> should reach 95% after the first cycle and 100% after the third cycle.

# RA12-70(12V70Ah)



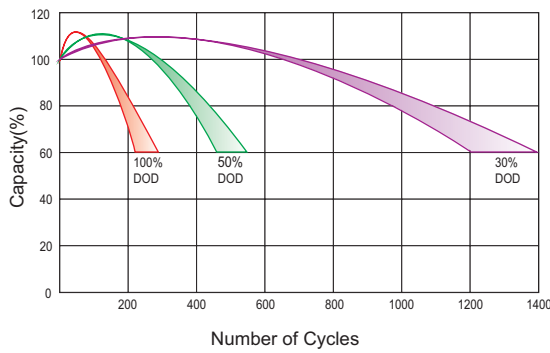
## Discharge Characteristics Curve



## Charge Characteristic Curve For Standby Use



## Cycle Life In Relation To Depth Of Discharge



## Relationship Between Charging Voltage And Temperature



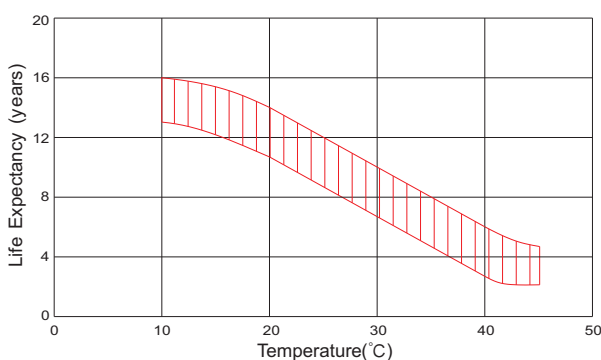
## Temperature Effects On Capacity



## 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.