



# RA12-230(12V230Ah)

## Specification

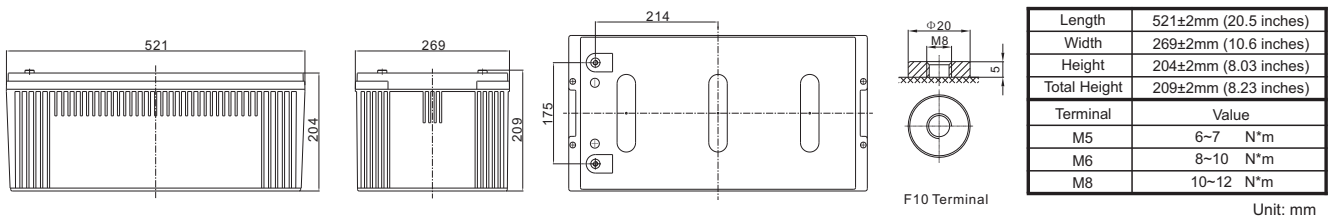
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	230Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 67.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 4.0 mΩ
Terminal	F10(M8)
Max. Discharge Current	2300A (5 sec)
Short Circuit Current	4100A
Design Life	12 years (Float charging)
Recommended Maximum Charging Current	69 A
Reference Capacity	C3 178.5AH C5 205.5AH C10 230.0AH C20 244.0AH
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	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	400.1	241.3	141.6	84.8	62.9	51.1	43.1	28.8	24.5	12.6
1.65V	389.6	236.0	139.0	83.6	62.1	50.5	42.6	28.5	24.3	12.5
1.70V	375.9	229.0	135.5	81.9	61.0	49.6	42.0	28.2	24.0	12.3
1.75V	357.9	219.8	130.9	79.8	59.5	48.5	41.1	27.6	23.6	12.2
1.80V	334.8	208.0	125.0	76.9	57.6	47.0	39.9	27.0	23.0	11.9
1.85V	305.7	192.8	117.3	73.2	55.0	45.1	38.4	26.0	22.3	11.6

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

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	710	445	269	163	122	99.6	84.4	57.1	48.9	25.1
1.65V	706	442	267	162	121	98.9	83.9	56.7	48.6	25.0
1.70V	687	431	261	159	119	97.4	82.7	56.0	48.0	24.7
1.75V	664	418	253	156	117	95.6	81.3	55.1	47.2	24.4
1.80V	630	399	243	151	113	93.0	79.2	53.9	46.2	23.9
1.85V	583	374	230	144	109	89.5	76.5	52.2	44.8	23.3

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

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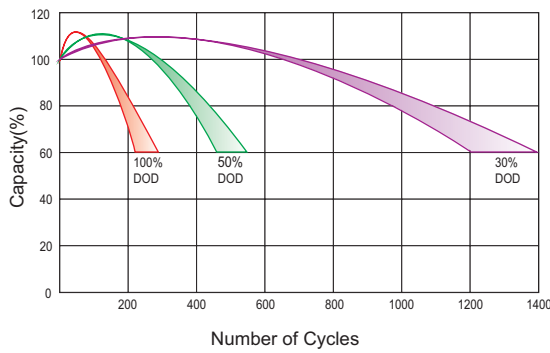
## Discharge Characteristics Curve



## 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.