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# BA12-200 ▶ 12V200Ah

BA12-200 is a general purpose battery up to 5 years in standby service or more than 260 cycles at 100% discharge in cycle service . As with all batteries, all are rechargeable , highly efficient , leak proof and maintenance free.

## ► Specification

<b>Cells Per Unit</b>	6
<b>Voltage Per Unit</b>	12
<b>Capacity</b>	200Ah @ 10hr-rate to 1.8V per cell @25°C (77°F)
<b>Weight</b>	Approx. 58 kg(127.6 lbs)
<b>Maximum Discharge Current</b>	1600A(5sec)
<b>Internal Resistance</b>	Approx. 3.5 mΩ
<b>Operating Temperature Range</b>	Discharge: -15°C~50°C ( 5°F~122°F) Charge: -15°C~40°C ( 5°F~104°F) Storage: -15°C~40°C ( 5°F~104°F)
<b>Nominal Operating Temperature Range</b>	25°C±3°C (77°F±5°F)
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
<b>Recommended Maximum Charging Current Limit</b>	40A
<b>Equalization and Cycle Service</b>	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
<b>Self Discharge</b>	Baace Batteries can be stored for more than 6 months at 25°C (77°F). Please charge batteries before using . For higher temperatures the time interval will be shorter.
<b>Terminal</b>	Thread lead alloy recessed terminal to accept M8 bolt
<b>Container Material</b>	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.



CTK20141211018

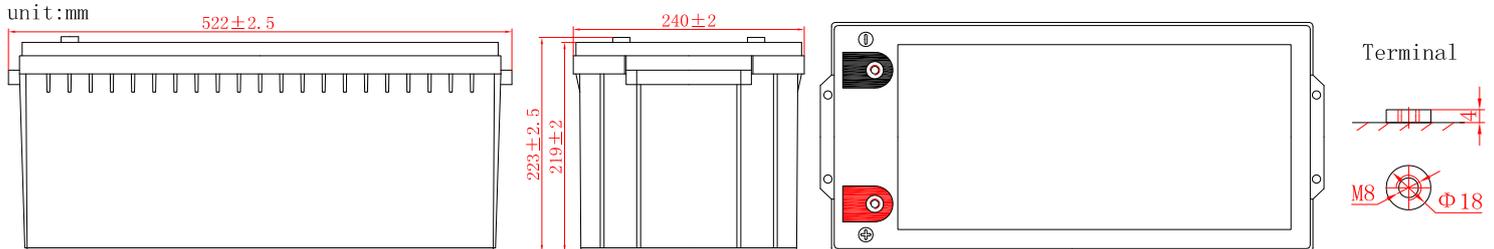
Baace-manufactured VRLA (Absorbent Glass Mat type) batteries are UL-recognized components under UL1989.

Baace is also certified by ISO 9001 and ISO 14001.

## ► Dimensions :

Unit: mm

Overall Height (H)	Container height (h)	Length (L)	Width (W)
223±2.5	219±2	522±2.5	240±2



## Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

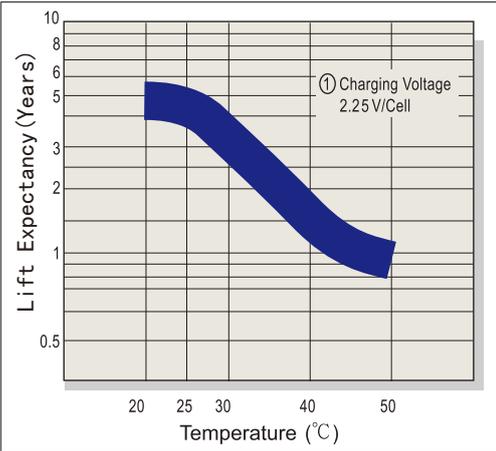
F.V/Time	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	210.4	154.7	127.4	53.5	35.9	24.7	20.50	10.93
1.67V	206.6	151.9	125.6	53.1	35.6	24.7	20.46	10.90
1.7V	203.7	150.2	124.1	52.7	35.4	24.6	20.43	10.87
1.75V	196.6	146.1	120.2	51.7	34.9	24.4	20.32	10.77
1.8V	187.4	140.9	115.0	49.9	33.9	23.9	20.00	10.61
1.85V	175.4	133.9	106.7	45.8	31.5	22.8	19.21	10.25

## Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

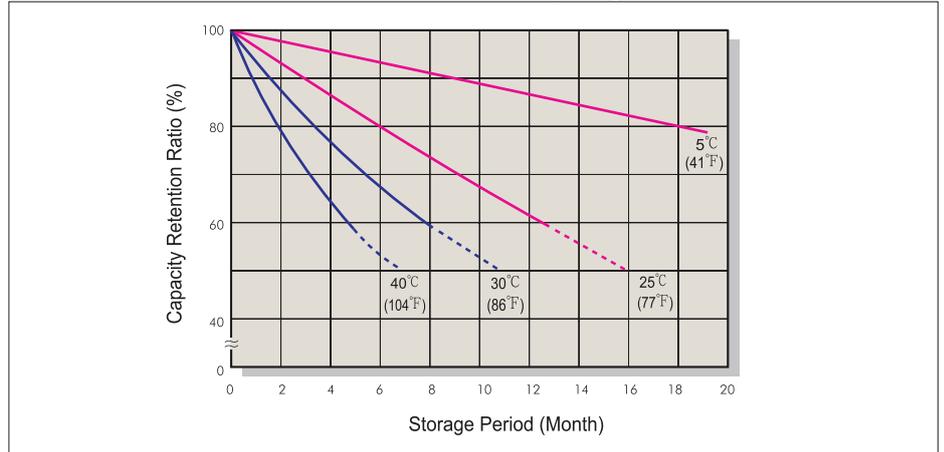
F.V/Time	30min	45min	1h	3h	5h	8h	10h	20h
1.60V	347.5	259.3	216.8	100.4	70.0	48.3	40.34	21.51
1.67V	338.1	252.3	214.0	99.4	69.8	48.1	40.25	21.41
1.7V	328.0	247.0	212.1	98.7	69.6	47.9	40.15	21.33
1.75V	309.7	234.6	206.9	96.8	68.7	47.6	39.82	21.14
1.8V	286.8	218.9	201.5	93.4	66.8	46.7	39.20	20.87
1.85V	256.3	197.1	189.8	86.7	62.8	45.1	38.00	20.28

Ratings presented herein are subject to revision without notice. Please refer to [www.zonaindustrial.cl](http://www.zonaindustrial.cl) to confirm the latest version.

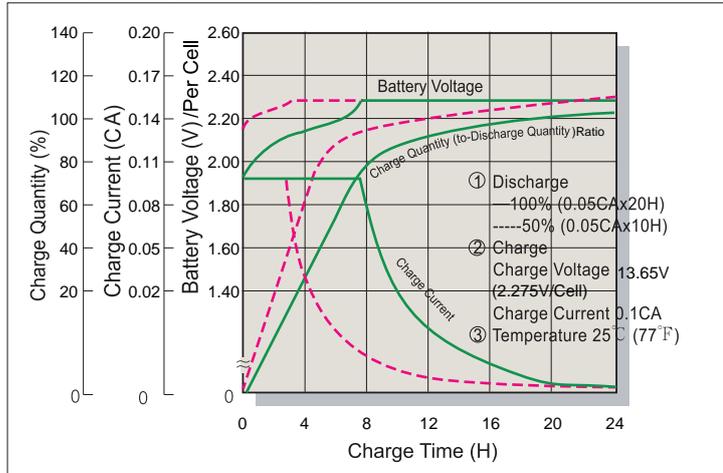
### Trickle(or Float)Design Life



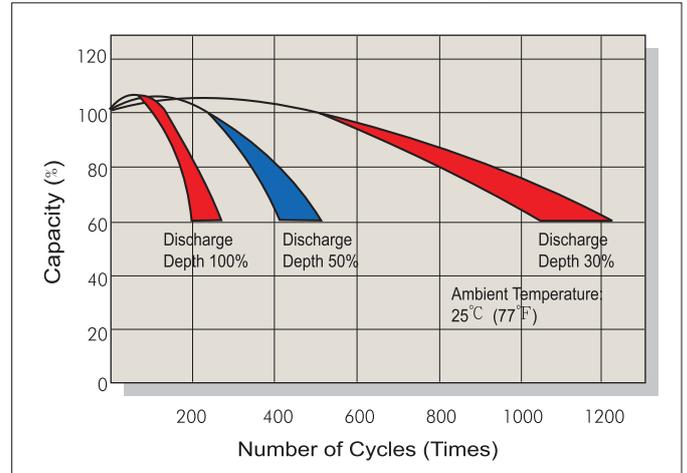
### Capacity Retention Characteristic



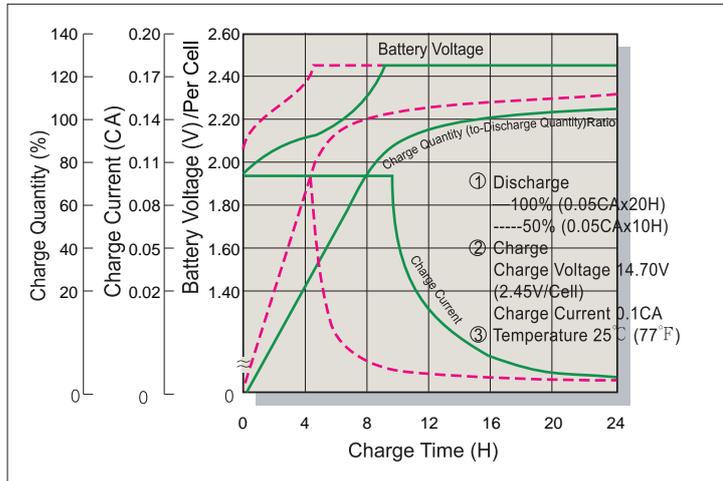
### Battery Voltage and Charge Time for Standby Use



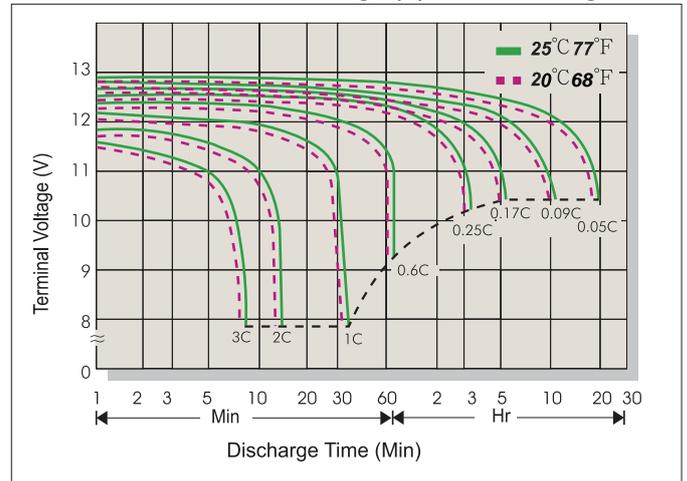
### Cycle Service Life



### Battery Voltage and Charge Time for Cycle Use



### Terminal Voltage (V) and Discharge Time



### Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C (77°F)	2.45	2.40-2.50	0.25C
Standby	25°C (77°F)	2.275	2.25-2.30	

### Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.65	1.60
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

### Effect of temperature on capacity (20HR)

Temperature	Dependency of Capacity (20HR)
40 °C	102%
25 °C	100%
0 °C	85%
-15 °C	65%

### Self-discharge Characteristics

Storage time	Preservation rate
3 Months	91%
6 Months	82%
12 Months	64%