

## Durable Battery Choose CSBattery



### Sealed Lead Acid Durable AGM Battery

GB12-100

12V 100Ah AGM Technology VRLA Battery

CSBattery GB series AGM batteries are designed to have a large amount of stored current discharged between charging sessions, with very heavy non-porous battery plates to withstand repeated major discharging and charging cycle. The CSBattery VRLA AGM battery uses a different chemistry for the plates active paste material, and a slightly stronger electrolyte than normal battery electrolyte, thus the GB range features higher cyclic life with 10 years of float life when compared to the standard Duration range.



#### Applications

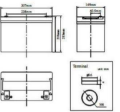
- Telecom Control Equipments
- UPS systems, Inverter
- Power Equipments
- Solar/Wind
- Emergency Power Systems

#### General Features

- ✔ 30% more cyclic life through innovation at the PAM additives
- ✔ Long life expectancy of 10 years in floating condition
- ✔ Thick flat plate with high Tin low Calcium alloy
- ✔ Excellent deep discharge recovery capability
- ✔ Deep cycle performance up to 700 cycles@50% DOD

#### Dimensions & Weight

Length(mm/inch)	307/12.09
Width(mm/inch)	169/6.65
Height(mm/inch)	211/8.31
Total Height(mm/inch)	215/8.46
Weight(kg/lbs)	27/59.5



#### Technical Specifications

Nominal Voltage		12V6 cells per unit
Design floating L16 @25°C		10 Years
Nominal Capacity @25°C (20 hour rate)(5.0A, 10 hV)		100Ah
Capacity @25°C	10hour rate (9.3A, 10 hV)	93Ah
	5 hour rate (16.6A, 10 hV)	82Ah
Internal Resistance	Full Charged Battery@25°C	≤3 mΩ
	Discharge	-15°C~45°C
Ambient Temperature	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max. Discharge Current@25°C		600A(5s)
Capacity affected by Temperature (10 hour)	40°C	105%
	25°C	100%
	0°C	85%
Self-Discharge@25°C per Month		3%
	Initial Charging Current Less than 25A	
Charge (Constant Voltage) @25°C	Standby Use	Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 25A Voltage 14.4-14.6V

#### Battery Discharge Table

FV/Time	Discharge Constant Current per Cell (Amperes at 25°C)									
	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.65V	152.0	94.6	67.8	50.9	36.5	26.7	17.2	10.5	9.66	5.19
1.65V	145.6	92.0	66.0	58.3	35.8	26.2	16.9	10.4	9.57	5.14
1.70V	139.3	89.5	64.2	56.7	35.2	25.7	16.7	10.3	9.48	5.09
1.75V	133.0	87.0	62.4	55.1	34.3	25.1	16.4	10.2	9.39	5.04
1.80V	126.6	84.4	60.6	53.5	33.5	24.5	16.2	10.1	9.30	5.00

FV/Time	Discharge Constant Power per Cell (Watts at 25°C)									
	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	283.4	179.3	128.5	111.7	68.1	49.8	32.0	19.6	17.5	9.7
1.65V	271.6	171.6	121.1	108.7	66.8	48.0	31.6	19.4	17.3	9.6
1.70V	259.8	166.9	119.7	105.7	65.6	47.0	31.1	19.2	17.1	9.5
1.75V	248.0	162.2	116.4	102.7	64.0	46.0	30.7	19.0	17.0	9.4
1.80V	236.2	157.4	113.0	99.7	62.4	45.7	30.2	18.8	16.8	9.3

Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery design/specifications are subject to modification without notice. Contact CSBattery for the latest information.

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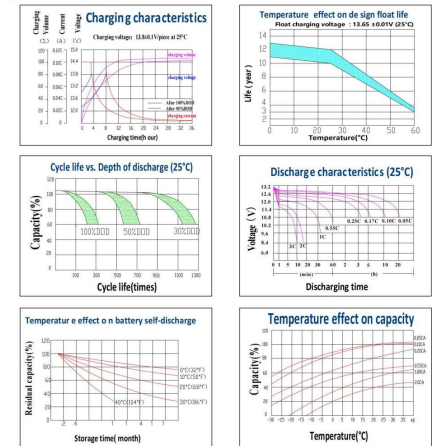
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#### Performance Characteristics



#### Battery Construction

Component	Positive plate	Negative plate & Cover	Container	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Reinforced Pb-Cu grid for improved recombination efficiency	Fire resistant ABS (UL94-V0)	Flame resistant aging resistance	Female Copper Inset MK	Advanced AGM separator for high pressure self-discharge	Dilute high purity sulfuric acid	Thin Invert epoxy resin seal

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