

## Durable Battery *Choose* CSBattery



### Sealed Lead Acid Durable AGM Battery

GB12-24

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 cycle life with 10 years of float life when compared to the standard Duration range.

12V  
24Ah

AGM  
Technology

VRLA  
Battery



#### Applications

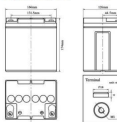
- Telecom Control Equipments
- UPS systems, inverter
- Power Equipments
- Solar/Wind
- Emergency Power Systems

#### General Features

- ✓ 20k more cycle 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)	165/6.5
Width(mm/inch)	126/4.96
Height(mm/inch)	174/6.85
Total Height(mm/inch)	174/6.85
Weight(kg/lbs)(±3%)	7.7/1.7



#### Technical Specifications

Nominal Voltage		12V(6 cells per unit)
Design Floating Life @25°C		10 Years
Nominal Capacity @25°C (10 hour rate@2.40A, 10.8V)		24Ah
Capacity @25°C		20hour rate (1.33A, 11.8V) 26.6Ah
		5 hour rate (4.8A, 13.5V) 22.4Ah
		1 hour rate (16.0A, 2.6V) 16.0Ah
Internal Resistance		Full Charged Battery@25°C 514 (mΩ)
Discharge		-15°C~45°C
Ambient Temperature		Charge -15°C~45°C
		Storage -15°C~45°C
Min. Discharge Current@25°C		144A (5s)
Capacity affected by Temperature (10 hour)		40°C 105%
		25°C 100%
		0°C 85%
		-15°C 65%
Self-Discharge@25°C per Month		2%
Charge (Constant Voltage) @25°C		Steady Use Initial Charging Current Less than 6A Voltage 13.6-13.8V
		Cycle Use Initial Charging Current Less than 6A 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
1.60V	49.3	26.2	18.1	16.0	9.7	7.1	4.6	2.8	2.50	1.39
1.65V	38.8	24.5	17.6	15.5	9.6	7.0	4.5	2.8	2.47	1.37
1.70V	37.1	23.9	17.1	15.1	9.4	6.9	4.4	2.7	2.45	1.36
1.75V	35.5	23.2	16.6	14.7	9.2	6.7	4.4	2.7	2.42	1.35
1.80V	33.8	22.5	16.2	14.3	8.9	6.5	4.3	2.7	2.40	1.33

FV/Time	Discharge Constant Power per Cell (Watts at 25°C)									
	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	79.6	47.0	33.7	29.8	18.1	13.3	8.5	5.2	4.7	2.6
1.65V	72.4	45.8	32.8	29.0	17.8	13.0	8.4	5.2	4.6	2.6
1.70V	69.3	44.5	31.9	28.2	17.5	12.8	8.3	5.1	4.6	2.5
1.75V	66.1	43.2	31.0	27.4	17.1	12.5	8.2	5.1	4.5	2.5
1.80V	63.0	42.0	30.1	26.6	16.7	12.2	8.1	5.0	4.5	2.5

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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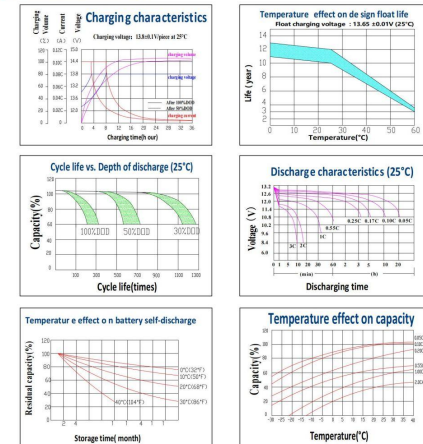
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#### Performance Characteristics



#### Battery Construction

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

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