

Durable Battery *Choose* CSBattery



Sealed Lead Acid Durable AGM Battery

GB12-90

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 AGM AGM Technology VRLA Battery



Applications

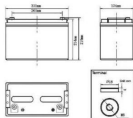
- Telecom Control Equipments
- UPS systems, inverter
- Power Equipments
- Solar/Wind
- Emergency Power Systems

General Features

- ✓ 20k 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)	331/13.03
Width(mm/inch)	174/6.85
Height(mm/inch)	214/8.43
Total Height(mm/inch)	219/8.62
Weight(kg/lbs)(±3%)	24.8/55.1



Technical Specifications

Nominal Voltage		12V/6 cells per unit
Design Floating Life @25°C		10 Years
Nominal Capacity @25°C (10 hour rate@9.0VA, 10.8V)		90Ah
Capacity @25°C	20hour rate (5.0VA, 10.8V)	100Ah
	5 hour rate (6.4A, 9.9V)	82.0Ah
	1 hour rate (9.9A, 9.6V)	59.9Ah
Internal Resistance Full Charged Battery@25°C		<57mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
Max. Discharge Current@25°C		500A(5s)
Capacity affected by Temperature (10 hour)	40°C	100%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge@25°C per Month		2%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 22.5A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 22.5A 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	152.0	94.6	67.8	59.9	56.5	26.7	17.2	10.5	9.36	5.19
1.65V	145.6	92.0	66.0	58.3	35.8	26.2	16.9	10.4	9.27	5.14
1.70V	139.3	89.5	64.2	56.7	35.2	25.7	16.7	10.3	9.18	5.09
1.75V	133.0	87.0	62.4	55.1	34.3	25.1	16.4	10.2	9.09	5.04
1.80V	126.6	84.4	60.6	53.5	33.5	24.5	16.2	10.1	9.00	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	126.3	111.7	68.1	49.8	37.9	19.6	17.5	9.7
1.65V	271.6	171.6	123.1	108.7	66.8	48.9	31.6	19.4	17.3	9.6
1.70V	259.8	166.9	119.7	105.7	65.6	47.9	31.1	19.2	17.1	9.5
1.75V	248.0	162.2	116.4	102.7	64.0	46.8	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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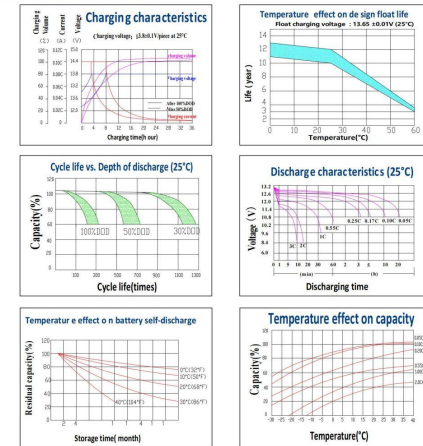
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Performance Characteristics



Battery Construction

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Cu grid with special paste	Highly improved Pb-Cu grid for improved recombination efficiency	Flame resistant ABS (UL94-V0)	Flame resistant 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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