

Durable Battery *Choose* CSBattery



Sealed Lead Acid Durable AGM Battery

GB12-150

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.

12V 150Ah AGM Technology VRLA Battery



Applications

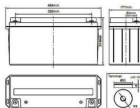
- Telecom Control Equipments
- UPS systems, inverter
- Power Equipments
- Solar/Wind
- Emergency Power Systems

General Features

- ✓ 20% more cyclic life through innovation at the PAM addresses
- ✓ 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)	484/19.06
Width(mm/inch)	171/6.73
Height(mm/inch)	241/9.49
Total Height(mm/inch)	241/9.49
Weight(kg/lbs ±3%)	41/90.5



Technical Specifications

Nominal Voltage		12V10 cells per unit
Design Floating Life @25°C		10 Years
Normal Capacity @25°C (20 hour rate@7.5A, 10.8V)		150Ah
Capacity @25°C		10hour rate (14.1A, 10.8V) 141Ah
		5 hour rate (25.0A, 10.5V) 125Ah
		1 hour rate (82.9A, 9.6V) 82.9Ah
Internal Resistance		Full Charged Battery@25°C
		Discharge -15°C~45°C
Ambient Temperature		Charge -15°C~45°C
		Storage -15°C~45°C
Max Discharge Current@25°C		500A(5s)
Capacity affected by Temperature (10 hours)		40°C 100%
		25°C 100%
		0°C 85%
		-15°C 65%
Self-Discharge@25°C per Month		7%
Charge (Constant Voltage) @25°C	Steady Use	Initial Charging Current Less than 37.5A Voltage 13.6~13.8V
	Cycle Use	Initial Charging Current Less than 37.5A 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	231.3	187.7	153.8	127.9	105.6	89.9	76.1	64.9	56.2	47.8
1.65V	221.7	177.2	143.2	117.3	95.0	80.2	68.0	57.8	49.1	40.7
1.70V	212.0	167.7	133.1	107.2	84.9	70.1	58.9	49.7	41.0	32.6
1.75V	202.4	158.2	123.0	97.1	74.8	60.0	48.8	40.6	31.9	23.5
1.80V	192.8	148.7	112.9	87.0	64.7	50.0	38.9	30.7	22.0	15.0

FV/Time	Discharge Constant Power per Cell (Watts at 25°C)									
	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	445.3	291.7	189.3	119.5	78.9	59.3	46.2	37.4	31.4	24.5
1.65V	426.7	244.9	175.6	115.2	75.0	56.8	43.6	34.8	28.8	21.9
1.70V	408.2	218.2	170.8	111.0	71.1	52.9	40.5	31.7	25.7	19.0
1.75V	389.6	211.4	166.0	106.8	67.0	49.0	36.4	27.6	21.6	15.1
1.80V	371.1	224.7	161.1	102.4	62.8	45.1	32.3	23.5	17.4	12.0

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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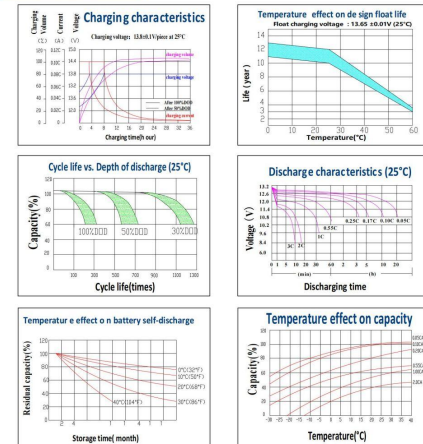
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Performance Characteristics



Battery Construction

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Filler seal
Features	Thick high Sn low Ca grid with special paste	Highly improved recombination efficiency	Fire resistance 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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