

Durable AGM VRLA Battery

Brief Introduction

CSBattery GB series 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(deep cycle). The CSBattery durable AGM battery uses a different chemistry for the plates active paste material, and a slightly stronger electrolyte, thus the GB range features 30% higher cyclic life with 10 years of float life when compared to the standard Duration range.



Complied Standards

IEC60896-21/22	BS6290part4
JISC8704	GB/T19638
IEC61427	CE/ISO

Applications

- UPS System, EPS System
- BTS Stations
- Wind Energy System, Pump
- BT Tower
- Off-Grid Solar System
- Telecom System
- Power Tools, Control System
- Emergency Lighting

General features

- 30% more cyclic life through innovation at the PAM additives
- DOD 50% 800 times Cycles deep cycle performance
- Thick flat plate with high Tin low Calcium alloy
- Excellent deep discharge recovery capability
- Long life expectancy of 10 years in floating condition

Technical Specifications

Nominal Voltage	12V(6 Cells Per Unit)	
Design Floating Life @25°C	10 Years	
Nominal Capacity @25°C(10 hour rate@1.8V)	100%C (Ah)	
Capacity @25°C	20hour rate (1.8V) 111%C (Ah)	
	5 hour rate (1.8V) 91.5%C(Ah)	
	1 hour rate (1.75V) 66.5%C(Ah)	
Internal Resistance	Full Charged Battery@25°C ≤0.02*C(mΩ)	
	Discharge -25°C~60°C	
	Charge -25°C~60°C	
Ambient Temperature	Storage -25°C~45°C	
	Max.Discharge Current@25°C	6C (5s)
	Capacity affected by Temperature (10 hour)	40°C 105%
25°C 100%		
0°C 85%		
-15°C 65%		
Self-Discharge@25°Cper Month	3%	
Standby Use	Initial Charging Current Less than C*0.25A Voltage 2.25-2.3V	
	Cycle Use	Initial Charging Current Less than C*0.25A Voltage 2.37-2.4V
Charge (Constant Voltage) @25°C		

Battery Construction

Component	Positive plate	Negative plate	Container &Cover	Safety valve
Features	Thick high Sn low Ca grid with Special paste	Balanced Pb-Ca grid for improved recombination efficiency	Fire resistant e ABS (UL94-V0optional)	Flame Si-Rubber and aging resistance
Component	Terminal	Separator	Electrolyte	Pillar seal
Features	Female Copper Insert	Advanced AGM separator for high pressure cell desbm	Dilute high purity sulfuric acid	Two layers epoxy resin seal

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GB12 12V Battery Items specifications

Model	Nominal Voltage (V)	Capacity (Ah)	Dimension (mm)				Net Weight kgs	Gross Weight kgs	Terminal
			Length	Width	Height	Total Height			
GB12-15	12	15/10HR	152	99	96	102	3.8	4	F2
GB12-18	12	18/20HR	181	77	167	167	5.2	5.4	L1
GB12-20	12	20/20HR	181	77	167	167	6	6.2	L1
GB12-24	12	24/10HR	166	126	174	174	7.7	7.9	M6
GB12-26	12	26/10HR	166	175	126	126	8.3	8.6	M6
GB12-33	12	33/10HR	196	130	155	167	10	10.3	M6
GB12-38	12	38/10HR	198	166	172	172	12.3	12.6	M6
GB12-45	12	45/10HR	198	166	174	174	13	13.3	M6
GB12-50	12	50/10HR	229	138	208	212	15.5	16	M6
GB12-55	12	55/10HR	229	138	208	212	16.2	16.7	M6
GB12-65	12	65/10HR	350	167	178	178	20.5	21	M6
GB12-70	12	70/10HR	350	167	178	178	21.5	22	M6
GB12-75	12	75/10HR	260	169	211	215	22	22.5	M6
GB12-80	12	80/10HR	260	169	211	215	23.5	24	M6
GB12-85A	12	85/10HR	331	174	214	219	25	25.5	M6
GB12-90	12	90/10HR	307	169	211	216	26.5	27	M6
GB12-100C	12	100/20HR	307	169	211	216	27	27.5	M6
GB12-100B	12	100/10HR	331	174	214	219	28	28.5	M8
GB12-100A	12	100/10HR	331	174	214	219	29	29.5	M8
GB12-120	12	120/20HR	407	173	210	233	33	33.5	M8
GB12-120A	12	120/10HR	407	173	210	233	34	34.5	M8
GB12-135	12	135/10HR	341	173	283	288	41	41.5	M8
GB12-150B	12	150/20HR	484	171	241	241	41	41.5	M8
GB12-150A	12	150/10HR	484	171	241	241	44	44.5	M8
GB12-160	12	160/10HR	532	206	216	222	48.5	49	M8
GB12-180	12	180/10HR	532	206	216	222	53	53.5	M8
GB12-200B	12	200/20HR	522	240	219	225	56	56.5	M8
GB12-200A	12	200/10HR	522	240	219	225	58.2	58.7	M8
GB12-230	12	230/10HR	522	240	219	225	61	61.5	M8
GB12-250	12	250/10HR	520	268	220	225	70	70.5	M8
GB12-300	12	300/10HR	520	268	220	226	77	77.5	M8



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GB12 6V 12V Small Battery Items specifications

Model	Nominal Voltage (V)	Capacity (Ah)	Dimension (mm)				Net Weight kgs	Gross Weight kgs	Terminal
			Length	Width	Height	Total Height			
GB6-4.0	6	4/20HR	70	47	101	107	0.7	0.8	F1
GB6-4.5	6	4.5/20HR	70	47	101	107	0.75	0.85	F1
GB6-5.0	6	5/20HR	70	47	101	107	0.8	0.9	F1
GB6-7.0	6	7.0/20HR	151	34	95	101	1.15	1.25	F1
GB6-10	6	10/20HR	151	50	94	100	1.6	1.7	F1
GB6-12	6	12/20HR	151	50	94	100	1.75	1.85	F1
GB12-4.0	12	4/20HR	90	70	101	107	1.35	1.45	F1
GB12-4.5	12	4.5/20HR	90	70	101	107	1.48	1.58	F1
GB12-5.0	12	5/20HR	90	70	101	107	1.58	1.68	F1
GB12-6.5	12	6.5/20HR	151	65	94	100	1.9	2	F2
GB12-7.0	12	7.0/20HR	151	65	94	100	2.05	2.15	F1/F2
GB12-7.2	12	7.2/20HR	151	65	94	100	2.15	2.25	F2
GB12-7.5	12	7.5/20HR	151	65	94	100	2.2	2.3	F2
GB12-9.0	12	9/20HR	151	65	94	100	2.4	2.5	F2
GB12-10	12	10/20HR	152	99	96	102	3.2	3.3	F2
GB12-12	12	12/20HR	152	99	96	102	3.5	3.6	F2
GB12-15	12	15/20HR	152	99	96	102	3.8	3.9	F2
GB12-18	12	18/20HR	181	77	167	167	5.2	5.4	L1
GB12-20	12	20/20HR	181	77	167	167	6	6.2	L1
GB12-24	12	24/10HR	166	126	174	174	7.7	7.9	M6
GB12-26	12	26/10HR	166	175	126	126	8.3	8.5	M6
GB12-1.3	12	1.3/20hr	97	43	52	58	0.56	0.66	M6
GB12-2.3	12	2.3/20hr	178	35	61	67	0.9	1	M6

Performance Characteristics

