

### Long Life Deep Cycle AGM 2V Battery

#### Brief Introduction

CSBattery DC2 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 deep cycle AGM battery uses a different chemistry for the plates active paste material, and a slightly stronger electrolyte than normal battery electrolyte, thus the DC2 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

- \* Telecom Control Equipment
- \* UPS System
- \* Solar & Wind Energy System
- \* Emergency Power System

#### General features

- 30% more cyclic life through innovation at the PAM additives
- Long life expectancy of 12-15 years in floating condition
- Thick flat plate with high Tin low Calcium alloy
- Excellent deep discharge recovery capability
- Deep cycle performance: up to 1200 cycles @50% DOD

#### Technical Specifications

Nominal Voltage	2V(single Cells Per Unit)	
Design Floating Life @25°C	12-15 Years	
Nominal Capacity @25°C(20 hour rate@1.8V )	100%C (Ah)	
Capacity @25°C	20hour rate (1.8V )	106%C (Ah)
	5 hour rate (1.8V )	88.4%C(Ah)
	1 hour rate (1.75V )	55%C(Ah)
Internal Resistance	Full Charged Battery@25°C	≤0.02*C(mΩ)
	Discharge	-25°C~60°C
Ambient Temperature	Charge	-25°C~60°C
	Storage	-25°C~60°C
	Max.Discharge Current@25°C	5C (5s)
Capacity affected by Temperature (10 hour )	40°C	102%
	25°C	100%
	0°C	85%
Self-Discharge@25°Cper Month	-15°C	65%
		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than C*0.25A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than C*0.25A Voltage 2.33-2.37V

#### 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 resistance ABS (UL94-V0optional)	Flame Si-Rubber and aging resistance
Component	Terminal	Separator	Electrolyte	Pillar seal
Features	Female Copper Insert M8	Advanced PVC/AGM separator for high pressure cell design	German Evonik Silicon GEL	Two layers epoxy resin seal

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#### DC2 2V Battery Items specifications

Model	Nominal Voltage (V)	Capacity (Ah)	Dimension (mm)				Net Weight kgs	Gross Weight kgs	Terminal
			Length	Width	Height	Total Height			
DC2-200	2	200/10HR	170	106	330	367	13	13.2	M8
DC2-300	2	300/10HR	171	151	330	365	18.5	18.7	M8
DC2-400	2	400/10HR	211	176	329	367	26.1	26.3	M8
DC2-500	2	500/10HR	241	172	330	364	31	31.3	M8
DC2-600	2	600/10HR	301	175	331	366	37.7	38	M8
DC2-800	2	800/10HR	410	176	330	365	51.6	51.9	M8
DC2-1000	2	1000/10HR	475	175	328	365	62	62.3	M8
DC2-1200	2	1200/10HR	472	172	338	355	68.5	68.8	M8
DC2-1500	2	1500/10HR	401	351	342	378	96.5	97	M8
DC2-2000	2	2000/10HR	491	351	343	383	130	130.5	M8
DC2-2500	2	2500/10HR	712	353	341	382	180	180.5	M8
DC2-3000	2	3000/10HR	712	353	341	382	190	190.5	M8



#### Performance Characteristics

