

Deep Cycle Long Life AGM Battery

DC2-400

CSBattery DC series deep cycle long life VRLA AGM battery uses a different chemistry additives in the positive plates and special AGM separators, The DC series features 70% higher cyclic life with 15 years of float life when compared to the standard Duration range. This series is highly suited for very unreliable power applications requiring the batteries to provide extra cyclic life performance such as PV system applications, small RE systems and electric vehicles.

2V
400Ah

AGM
Technology

Deep
Cycle



COMPLIED STANDARDS



Applications

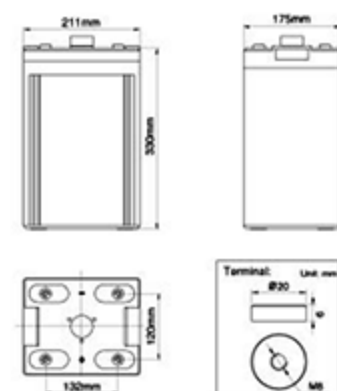
- >Solar Systems
- >Wheel chair, Golf Cart
- >Telecom systems
- >Cable TV Systems
- >Emergency Power System

General Features

- >Thicker plate with high Tin low Calcium alloy
- >High Reliability and Good Quality
- >Deep Discharge Recovery
- >High Power Density
- >Longer Service Life, in both Float or Cyclic

Dimensions & Weight

Length(mm/inch)	211/8.31
Width(mm/inch)	175/6.9
Height(mm/inch)	330/13
Total Height(mm/inch)	366/14.4
Weight(kg/lbs)	26.2/57.8



Technical Specifications

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		10 Years
Nominal Capacity @25°C(10 hour rate@40.0A, 1.8V)		400Ah
Capacity @25°C	20hour rate (21.2A, 1.8V)	424Ah
	5 hour rate (71A, 1.75V)	355Ah
	1 hour rate (242A, 1.6V)	242Ah
Internal Resistance	Full Charged Battery@25°C	≤0.39mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max. Discharge Current@25°C		800A(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		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 60A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 60A Voltage 2.33-2.37V

Battery Discharge Table

Discharge Constant Current per Cell (Amperes at 25° C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	598	396	295	242	154	110	75	49	44.0	23.3
1.65V	588	389	289	238	151	108	73	48	43.2	22.9
1.70V	577	382	284	233	148	106	72	47	42.4	22.5
1.75V	566	374	279	229	146	104	71	47	41.6	22.0
1.80V	544	360	268	220	140	100	68	45	40.0	21.2

Discharge Constant Power per Cell (Watts at 25° C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	1152	762	567	466	296	212	144	95	84.7	44.9
1.65V	1131	748	557	457	291	208	141	93	83.2	44.1
1.70V	1110	735	547	449	286	204	139	91	81.6	43.3
1.75V	1089	721	537	440	280	200	136	90	80.1	42.4
1.80V	1047	693	516	424	270	193	131	86	77.0	40.8

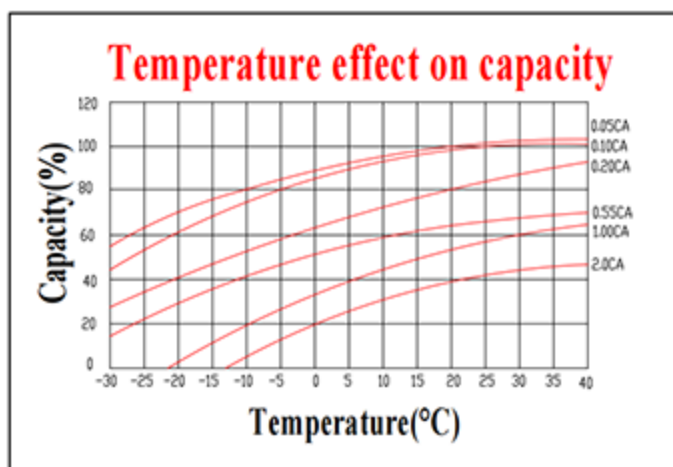
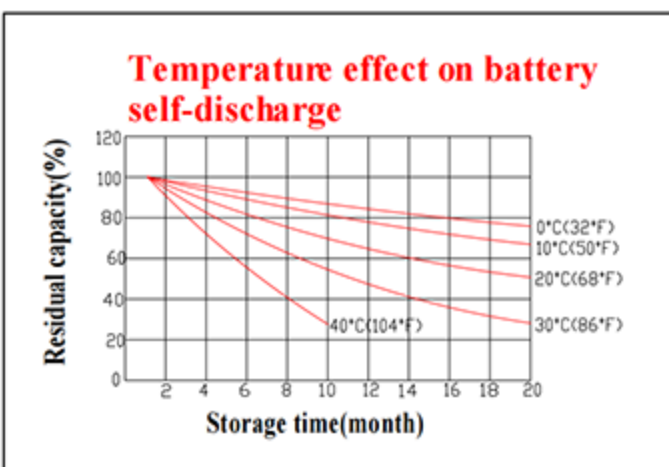
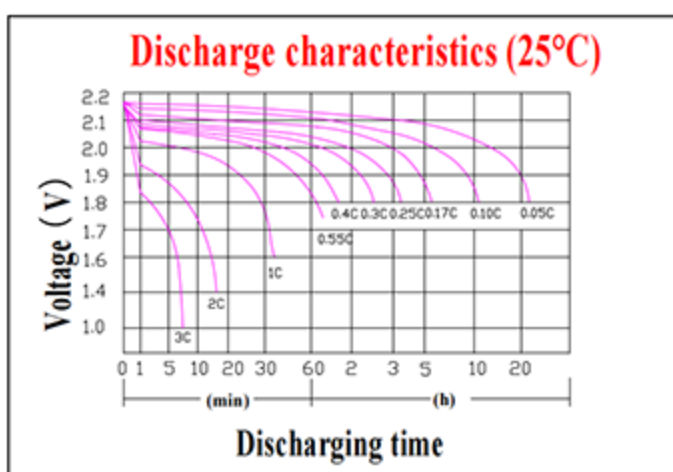
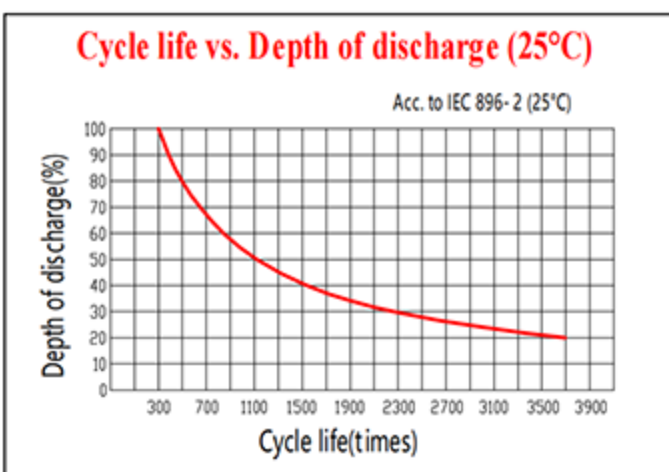
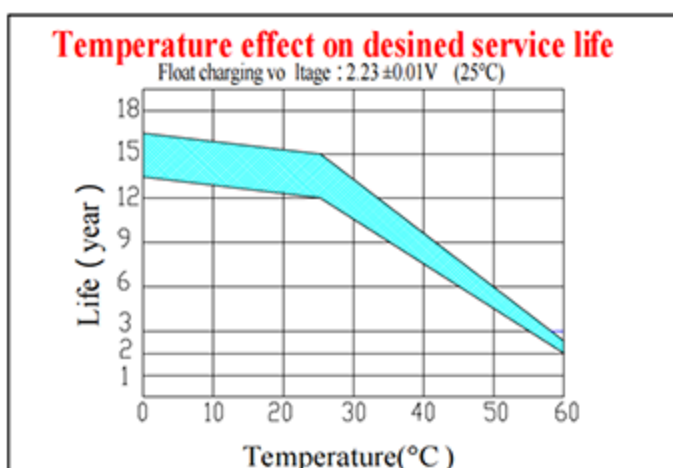
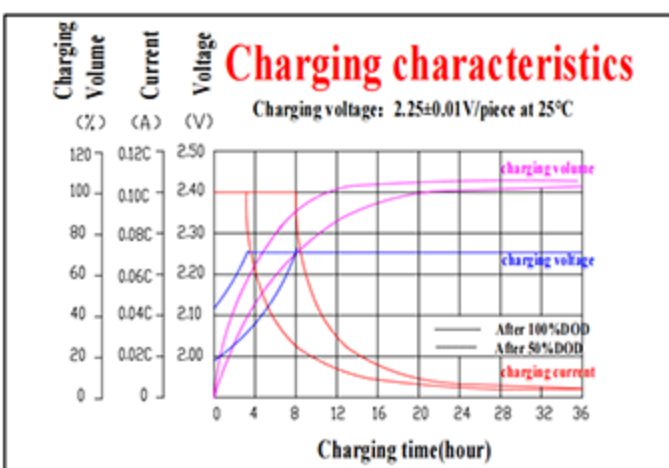
Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact CSBattery for the latest information.

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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 Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	Fire resistance ABS (UL94-V0)	Flame Si-Rubber and aging resistance	Female Copper Insert M8	Advanced AGM separator for high pressure cell design	Dilute high purity sulfuric acid	Two layers epoxy resin seal