

Deep Cycle Long Life AGM Battery

DC2-500

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
500Ah

AGM
Technology

Deep
Cycle



COMPLIED STANDARDS



Applications

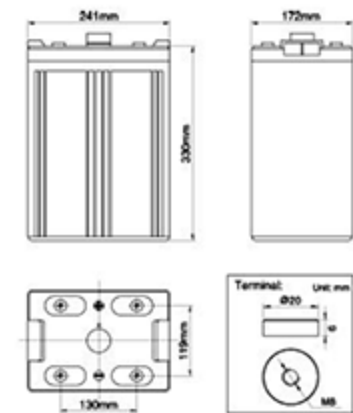
- >Solar Systems
- >Wheel chair, Golf Cart
- >Telecom systems
- >Cable TV Systems
- >Emergency Power System

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)	241/9.5
Width(mm/inch)	171/6.8
Height(mm/inch)	330/13
Total Height(mm/inch)	366/14.4
Weight(kg/lbs)	31/68.5



Technical Specifications

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		10 Years
Nominal Capacity @25°C(10 hour rate@50.0A, 1.8V)		500Ah
Capacity @25°C	20hour rate (26.5A, 1.8V)	530Ah
	5 hour rate (88A, 1.75V)	440Ah
	1 hour rate (303A, 1.6V)	303Ah
Internal Resistance	Full Charged Battery@25°C	≤0.31mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		1000A(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 75A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 75A 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	748	495	369	303	193	138	94	62	55.0	29.2
1.65V	734	486	362	297	189	135	92	60	54.0	28.6
1.70V	721	477	355	292	186	133	90	59	53.0	28.1
1.75V	707	468	348	286	182	130	88	58	52.0	27.6
1.80V	680	450	335	275	175	125	85	56	50.0	26.5

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	1440	953	709	582	371	265	180	119	105.9	56.1
1.65V	1414	936	696	572	364	260	177	116	104.0	55.1
1.70V	1388	918	684	561	357	255	173	114	102.0	54.1
1.75V	1361	901	671	551	350	250	170	112	100.1	53.1
1.80V	1309	866	645	529	337	241	164	108	96.3	51.0

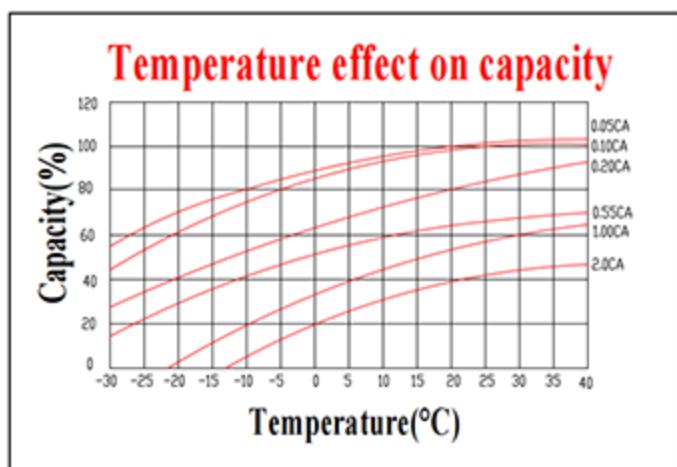
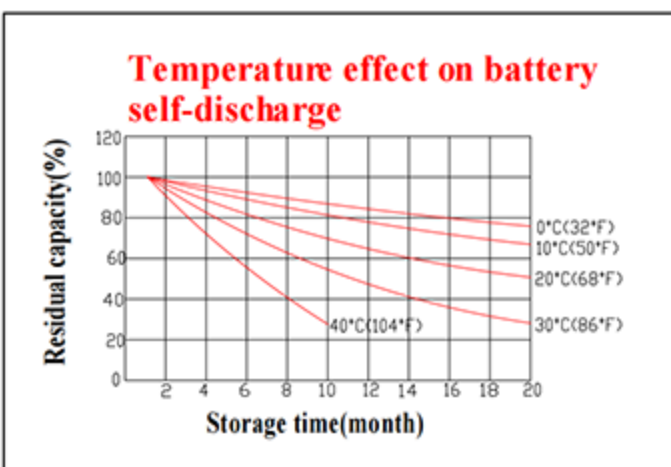
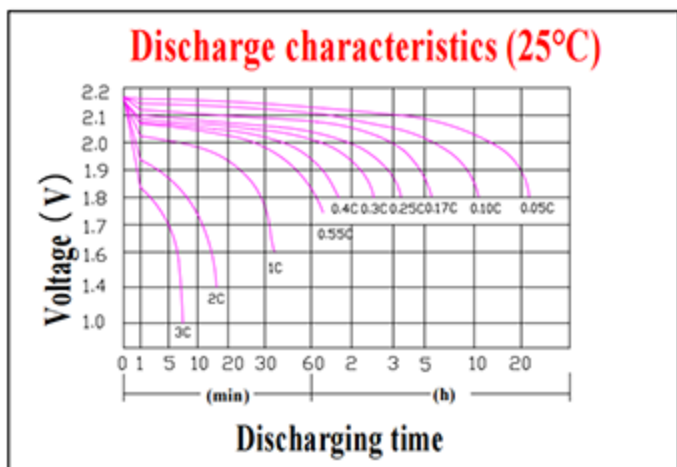
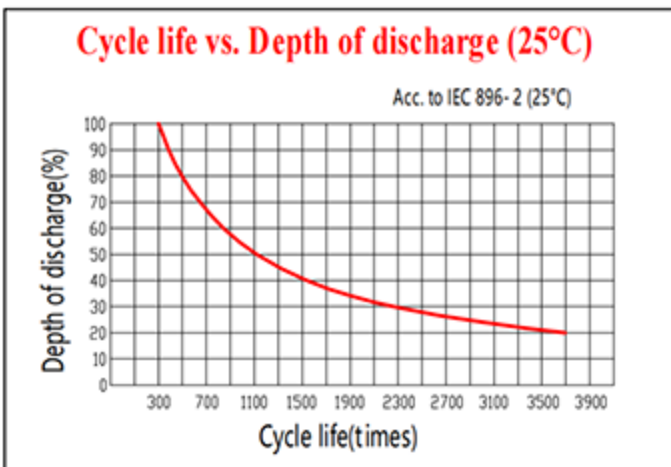
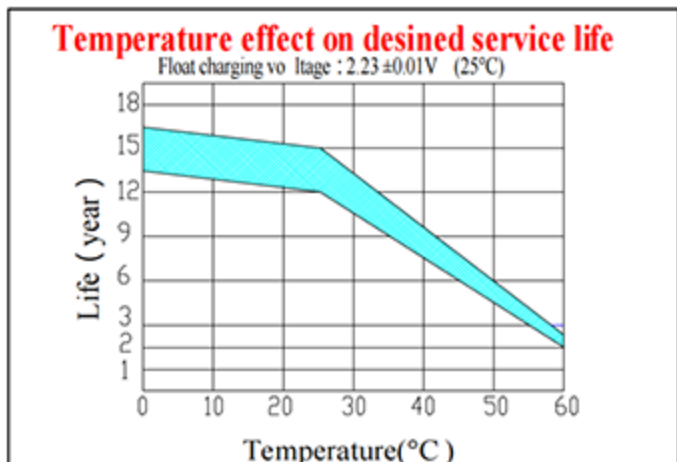
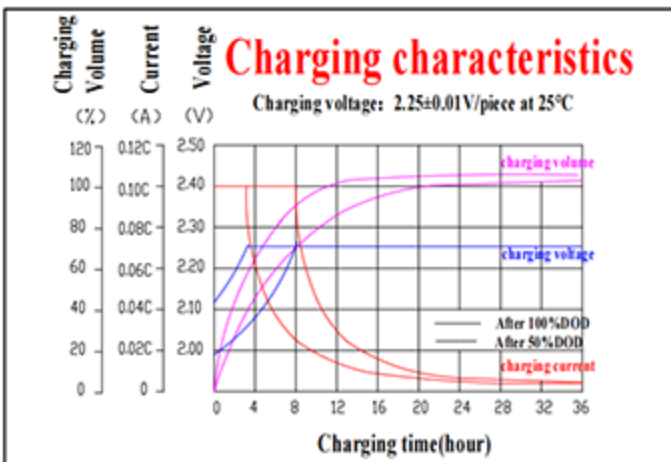
Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact CSBattery for the latest information.

Copyright© 2016 CSBattery Energy Co., Limited

Deep Cycle Long Life AGM Battery

DC2-500

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

Copyright© 2016 CSBattery Energy Co., Limited