

Deep Cycle Long Life AGM Battery

DC2-1000

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
1000Ah

AGM
Technology

Deep
Cycle



COMPLIED STANDARDS



Applications

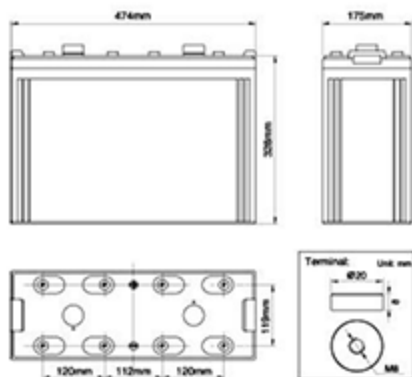
- > Solar Systems
- > Wheel chair, Golf Cart
- > Telecom systems
- > Cable TV Systems
- > Emergency Power System

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)	474/18.6
Width(mm/inch)	175/6.89
Height(mm/inch)	330/13
Total Height(mm/inch)	365/14.4
Weight(kg/lbs)(±3%)	62/136.7



Technical Specifications

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C(10 hour rate@100.0A, 1.8V)		1000Ah
Capacity @25°C	20hour rate (53A, 1.8V)	1060Ah
	5 hour rate (177A, 1.75V)	885Ah
	1 hour rate (605A, 1.6V)	605Ah
Internal Resistance	Full Charged Battery@25°C	≤0.19mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max. Discharge Current@25°C		2000A(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 150A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 150A 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	1496	990	737	605	385	275	187	123	110.0	58.3
1.65V	1469	972	724	594	378	270	184	121	108.0	57.2
1.70V	1442	954	710	583	371	265	180	119	106.0	56.2
1.75V	1414	936	697	572	364	260	177	116	104.0	55.1
1.80V	1360	900	670	550	350	250	170	112	100.0	53.0

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	2880	1906	1419	1165	741	529	360	237	211.8	112.2
1.65V	2827	1871	1393	1143	728	520	353	233	207.9	110.2
1.70V	2775	1836	1367	1122	714	510	347	229	204.1	108.1
1.75V	2723	1802	1341	1101	701	501	340	224	200.2	106.1
1.80V	2618	1733	1290	1059	674	481	327	216	192.5	102.0

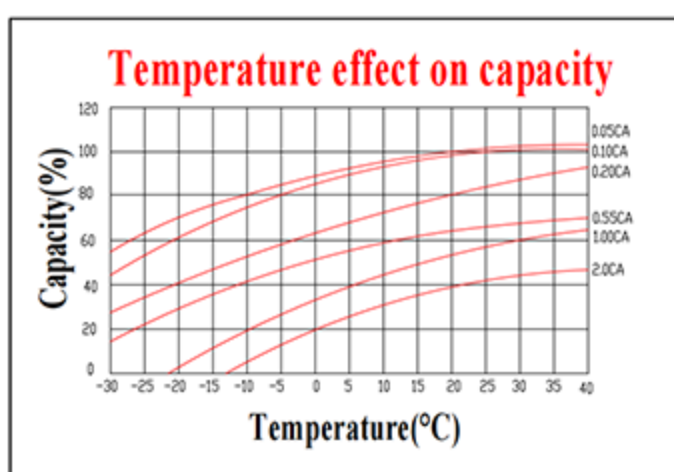
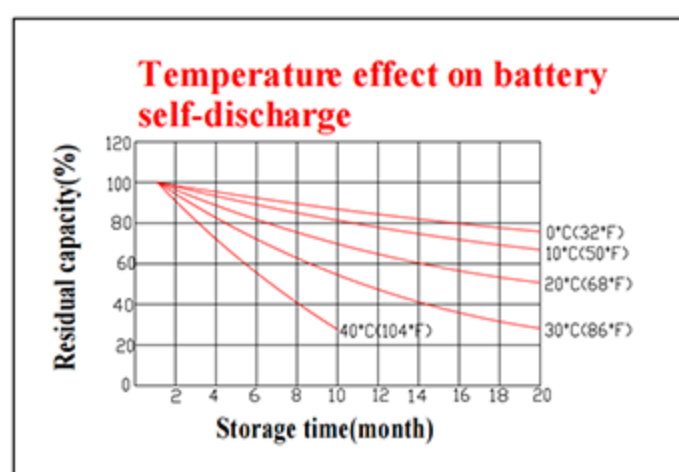
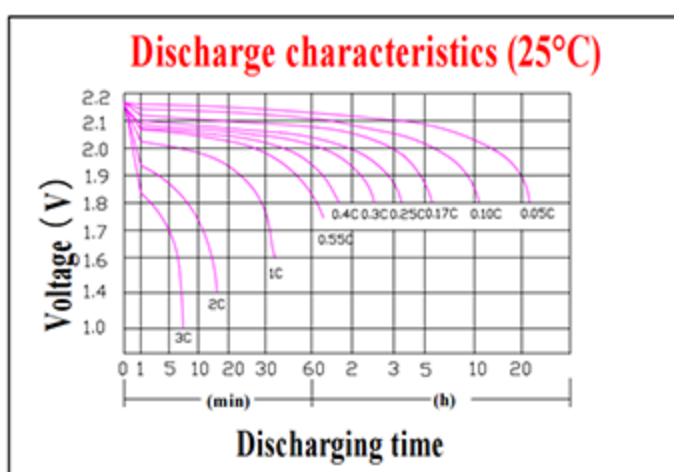
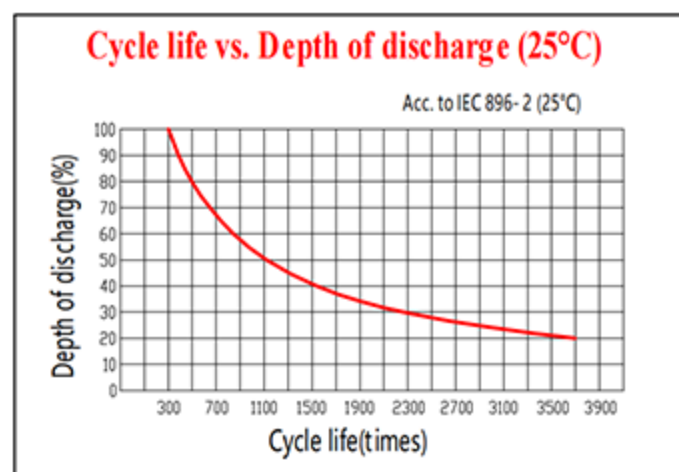
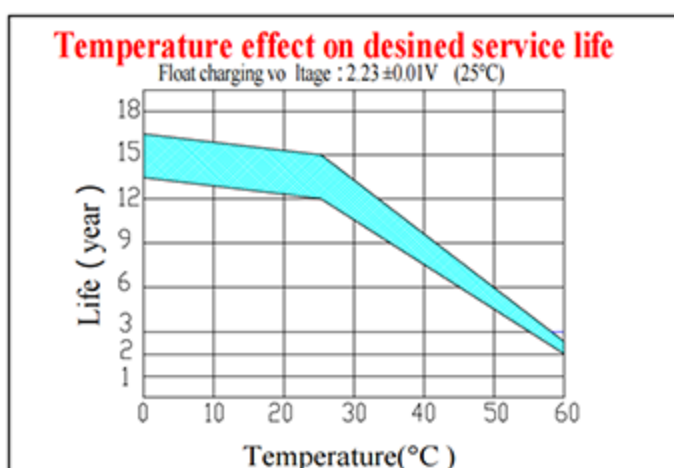
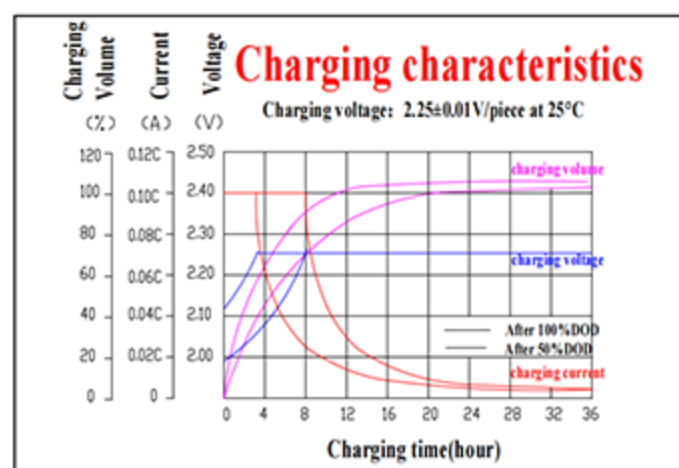
Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact CSBattery for the latest information.

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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

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