

Deep Cycle Long Life AGM Battery

DC2-1200

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
1200Ah

AGM
Technology

Deep
Cycle



Applications

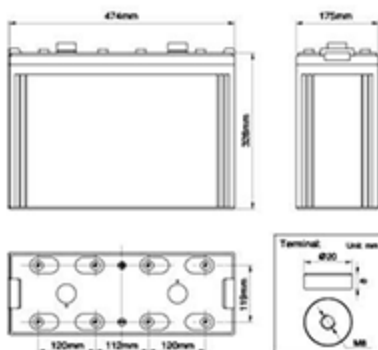
- > Solar Systems
- > Wheel chair, Golf Cart
- > Telecom systems
- > Cable TV Systems
- > Emergency Power System

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)	475/18.6
Width(mm/inch)	175/6.89
Height(mm/inch)	328/13
Total Height(mm/inch)	365/14.4
Weight(kg/lbs)(±3%)	68.5/151



Technical Specifications

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C(10 hour rate@120.0A, 1.8V)		1200Ah
Capacity @25°C	20hour rate (63.6A, 1.8V)	1272Ah
	5 hour rate (212A, 1.75V)	1060Ah
	1 hour rate (726A, 1.6V)	726Ah
Internal Resistance	Full Charged Battery@25°C	≤0.18mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max. Discharge Current@25°C		2400A(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 180A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 180A 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	1795	1188	884	726	462	330	224	148	132.0	70.0
1.65V	1763	1166	868	713	454	324	220	145	129.6	68.7
1.70V	1730	1145	852	700	445	318	216	142	127.2	67.4
1.75V	1697	1123	836	686	437	312	212	140	124.8	66.1
1.80V	1632	1080	804	660	420	300	204	134	120.0	63.6

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	3456	2287	1702	1398	889	635	432	285	254.1	134.7
1.65V	3393	2245	1672	1372	873	624	424	279	249.5	132.2
1.70V	3330	2204	1641	1347	857	612	416	274	244.9	129.8
1.75V	3267	2162	1610	1321	841	601	408	269	240.2	127.3
1.80V	3142	2079	1548	1271	809	578	393	259	231.0	122.4

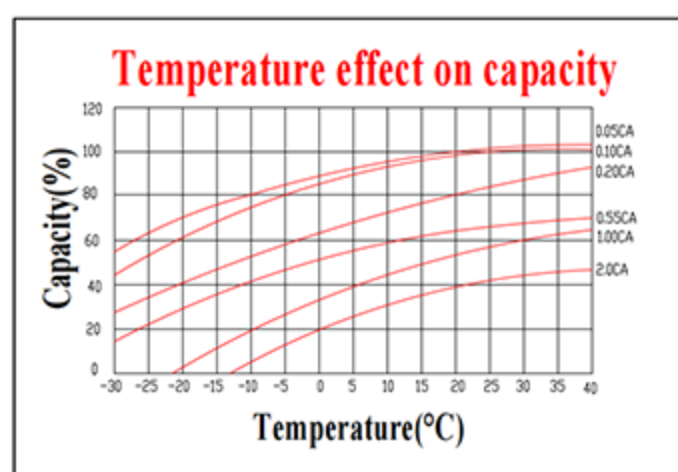
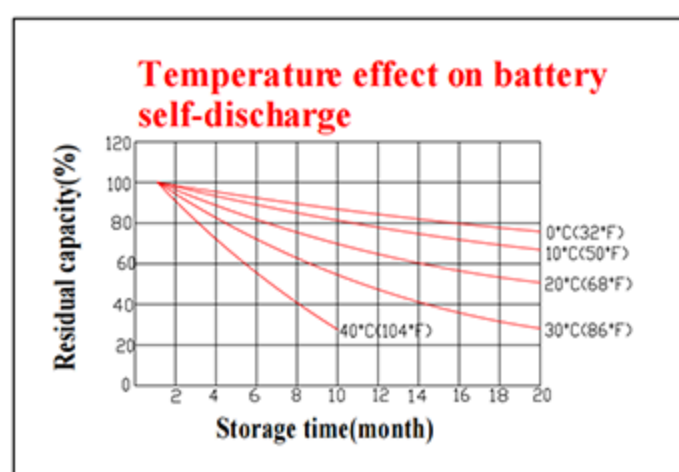
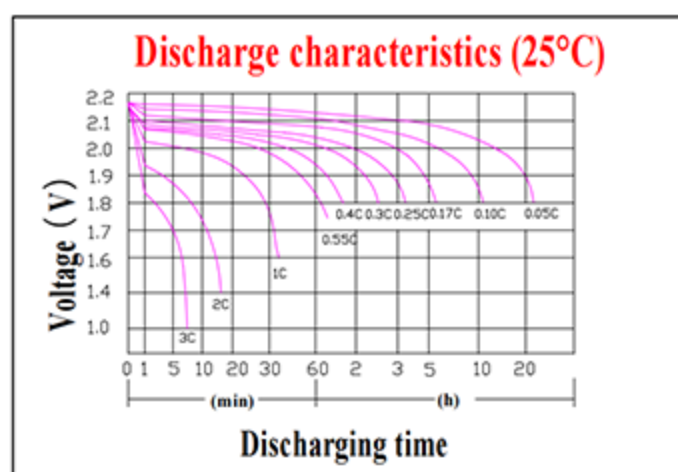
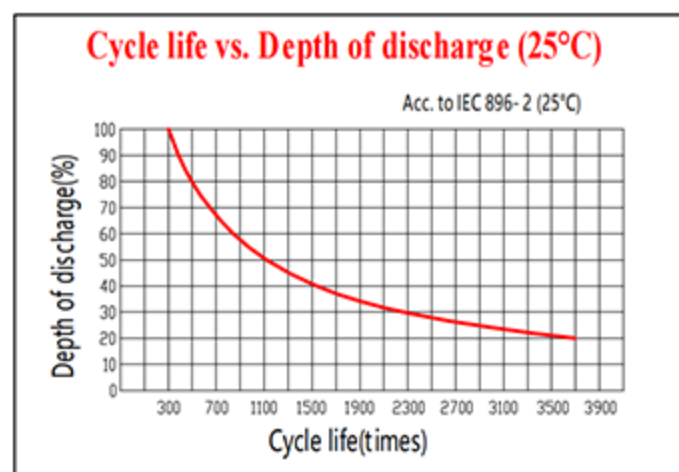
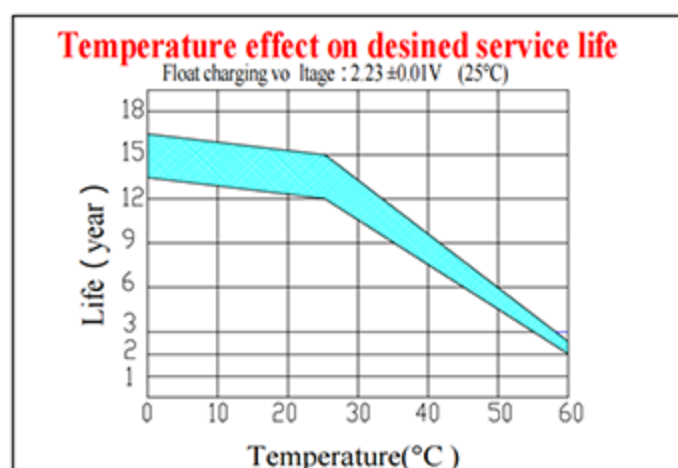
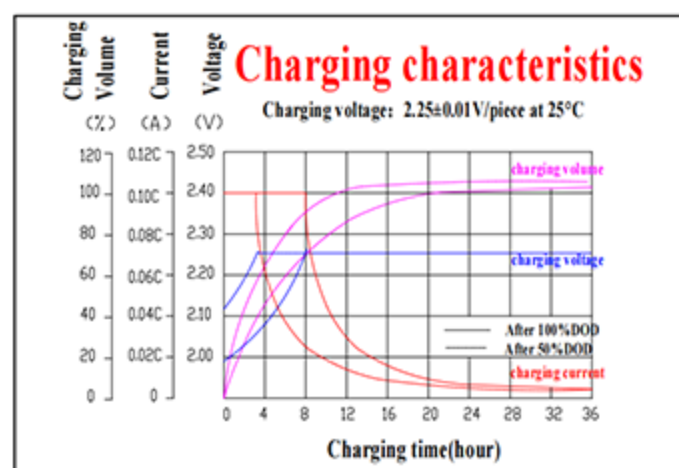
Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact CSBattery for the latest information.

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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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