

Deep Cycle Long Life AGM Battery

DC2-600

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
600Ah

AGM
Technology

Deep
Cycle



COMPLIED STANDARDS



Applications

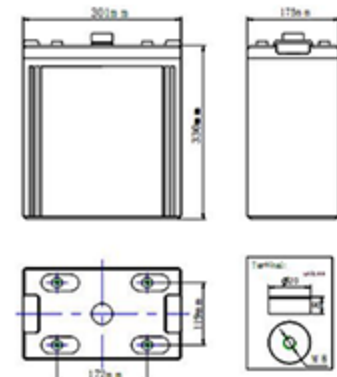
- > Solar Systems
- > Wheel chair, Golf Cart
- > Telecom systems
- > Cable TV Systems
- > Emergency Power System

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)	301/11.85
Width(mm/inch)	175/6.89
Height(mm/inch)	330/13
Total Height(mm/inch)	366/14.4
Weight(kg/lbs)	37.7/83.1



Technical Specifications

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C(10 hour rate@60.0A, 1.8V)		600Ah
Capacity @25°C	20hour rate (31.8A, 1.8V)	636Ah
	5 hour rate (106A, 1.75V)	530Ah
	1 hour rate (363A, 1.6V)	363Ah
Internal Resistance	Full Charged Battery@25°C	≤0.27mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max. Discharge Current@25°C		1200A(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 90A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 90A 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	898	594	442	363	231	165	112	74	66.0	35.0
1.65V	881	583	434	356	227	162	110	73	64.8	34.3
1.70V	865	572	426	350	223	159	108	71	63.6	33.7
1.75V	849	562	418	343	218	156	106	70	62.4	33.1
1.80V	816	540	402	330	210	150	102	67	60.0	31.8

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	1728	1143	851	699	445	318	216	142	127.1	67.3
1.65V	1696	1123	836	686	437	312	212	140	124.7	66.1
1.70V	1665	1102	820	673	429	306	208	137	122.4	64.9
1.75V	1634	1081	805	661	420	300	204	135	120.1	63.7
1.80V	1571	1040	774	635	404	289	196	129	115.5	61.2

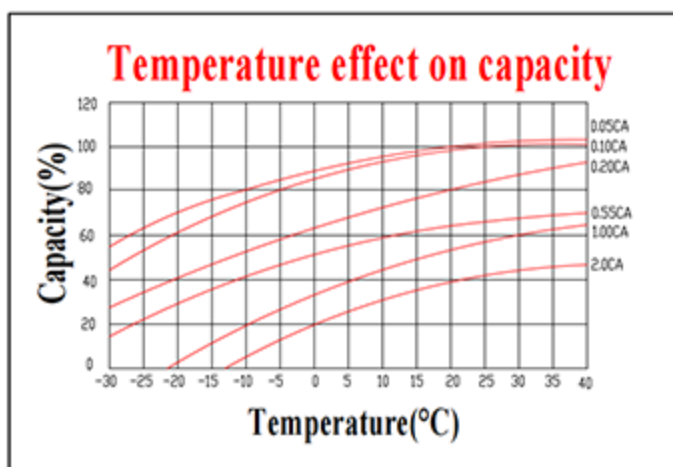
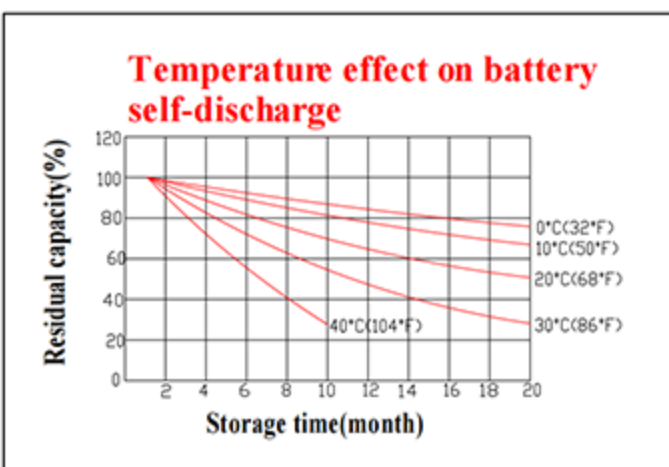
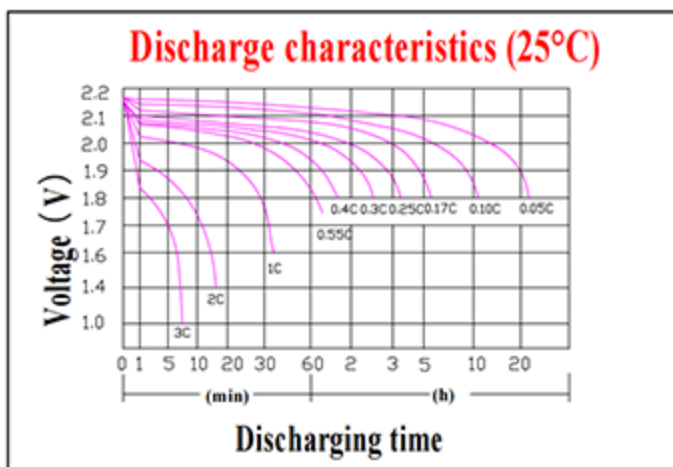
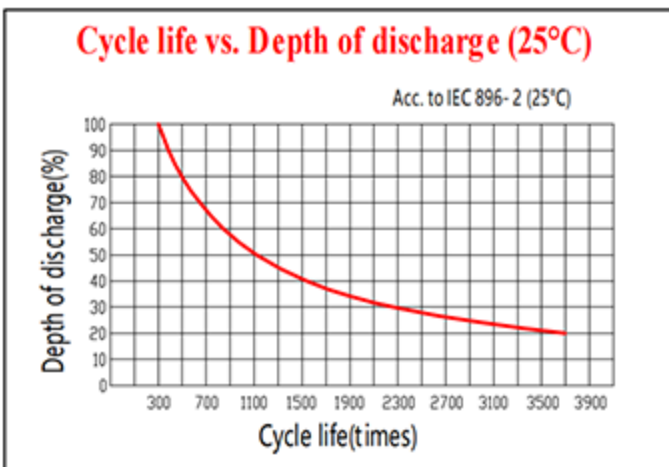
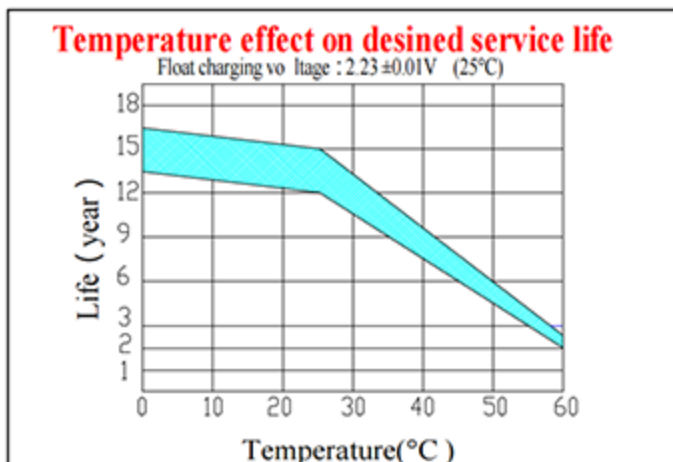
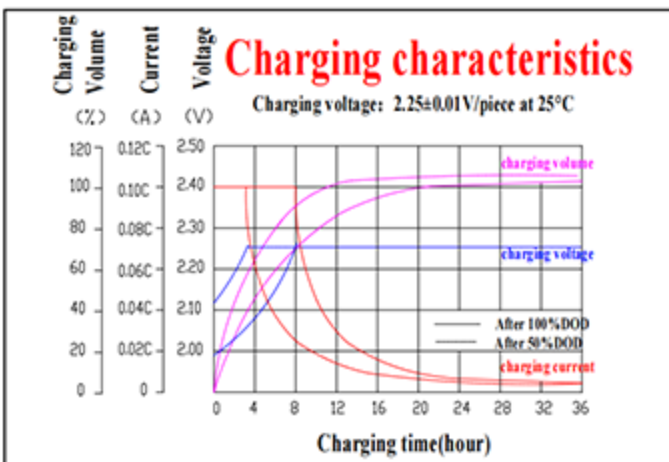
Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact CSBattery for the latest information.

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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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