

Deep Cycle Long Life AGM Battery

DC2-300

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
300Ah

AGM
Technology

Deep
Cycle



Applications

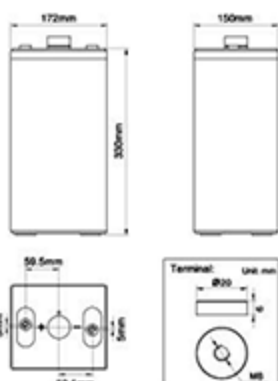
- > Solar Systems
- > Wheel chair, Golf Cart
- > Telecom systems
- > Cable TV Systems
- > Emergency Power System

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)	172/6.77
Width(mm/inch)	150/5.9
Height(mm/inch)	330/13
Total Height(mm/inch)	366/14.4
Weight(kg/lbs)	18.5/40.8



Technical Specifications

Nominal Voltage		2V(1 cell per unit)
Design Floating Life @25°C		10 Years
Nominal Capacity @25°C(10 hour rate@30.0A, 1.8V)		300Ah
Capacity @25°C	20hour rate (15.9A, 1.8V)	318Ah
	5 hour rate (53A, 1.75V)	265Ah
	1 hour rate (182A, 1.6V)	182Ah
Internal Resistance	Full Charged Battery@25°C	≤0.45mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max. Discharge Current@25°C		600A(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 45A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 45A 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	449	297	221	182	116	83	56	37	33.0	17.5
1.65V	441	292	217	178	113	81	55	36	32.4	17.2
1.70V	432	286	213	175	111	80	54	36	31.8	16.9
1.75V	424	281	209	172	109	78	53	35	31.2	16.5
1.80V	408	270	201	165	105	75	51	34	30.0	15.9

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	864	572	426	349	222	159	108	71	63.5	33.7
1.65V	848	561	418	343	218	156	106	70	62.4	33.1
1.70V	833	551	410	337	214	153	104	69	61.2	32.4
1.75V	817	541	402	330	210	150	102	67	60.1	31.8
1.80V	785	520	387	318	202	144	98	65	57.8	30.6

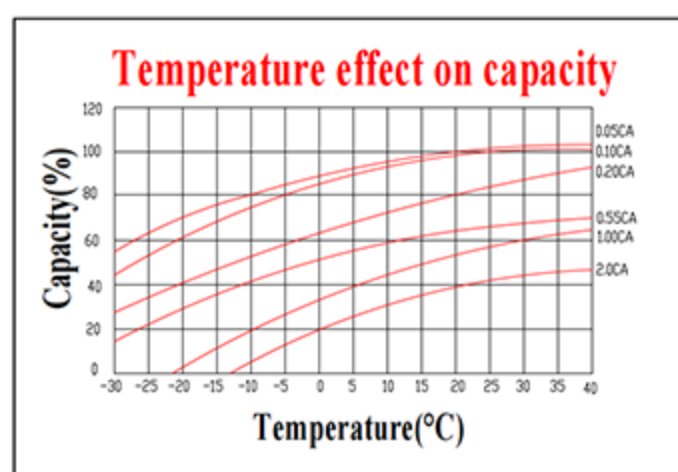
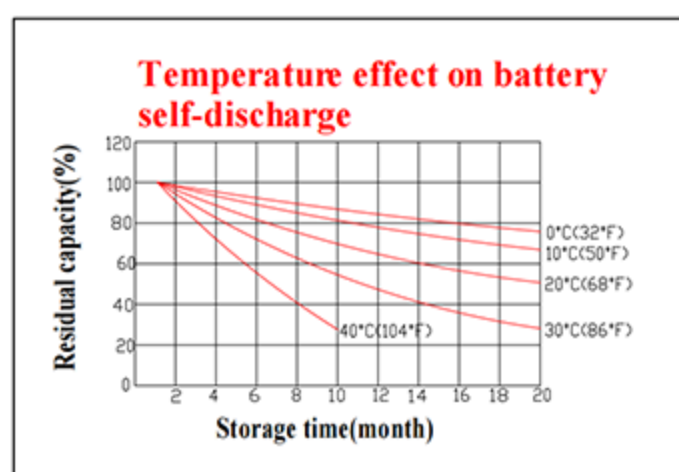
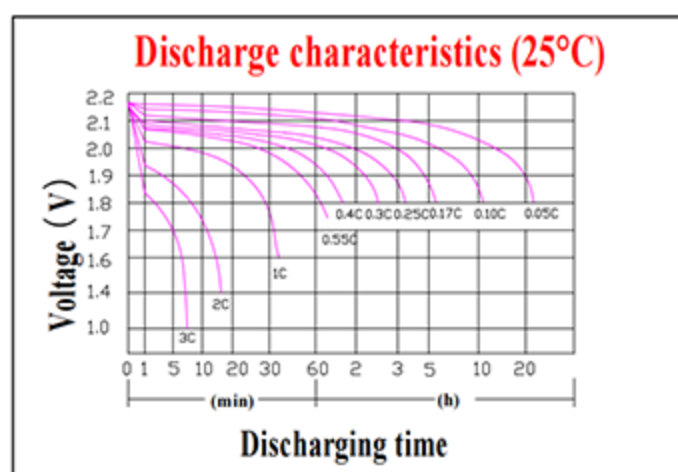
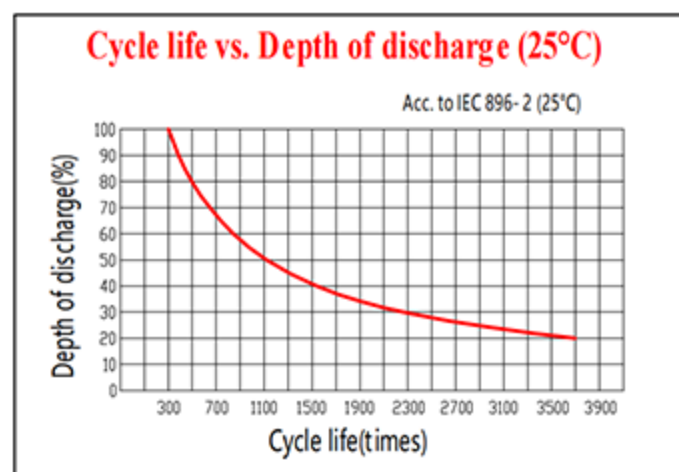
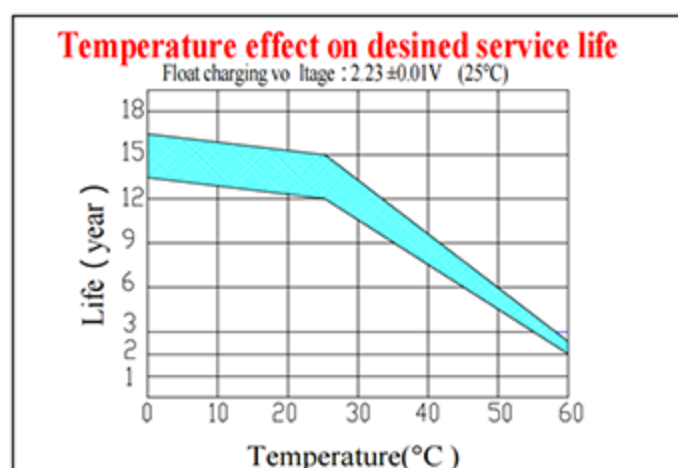
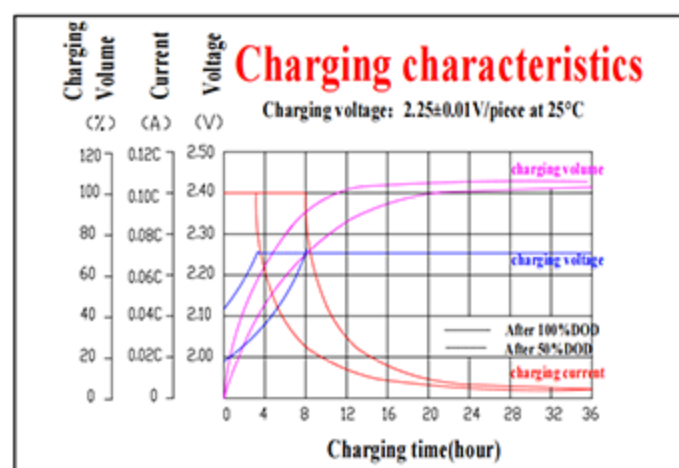
Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact CSBattery for the latest information.

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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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