

**Deep Cycle Long Life AGM Battery DC12-135**

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.



**Applications**

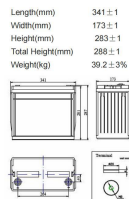
- > Solar Systems
- > Wheelchair, Golf Cart
- > Telecom systems
- > Cable TV Systems
- > Emergency Power System

**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**



**Technical Specifications**

Length(mm)	341 ± 1	Nominal Voltage	12V (6 cells per unit)
Width(mm)	173 ± 1	Design Floating Life @25°C	15 Years
Height(mm)	283 ± 1	Nominal Capacity @25°C (20 hour rate @ 0.75A, 10.8V)	135Ah
Total Height(mm)	288 ± 1	10hour rate (12.2A, 10.8V)	122Ah
Weight(kg)	30.2 ± 0.5	5 hour rate (12.5A, 10.8V)	107.5Ah
		1 hour rate (18.0A, 9.4V)	78.0Ah
		Internal Resistance	Full Charged Battery @25°C
			24 mΩ
		Ambient Temperature	Discharge
			-15°C ~ 45°C
			Charge
			-15°C ~ 45°C
			Storage
			-15°C ~ 45°C
		Max Discharge Current @25°C	700A (5s)
		Capacity affected by Temperature (10 hour)	40°C 100%
			25°C 100%
			0°C 85%
			-15°C 65%
		Self-Discharge @25°C per Month	2%
		Charge (Constant Voltage) @25°C	Standby Use Initial Charging Current Less than 27A Voltage 13.6-13.8V
			Cycle Use Initial Charging Current Less than 27A Voltage 14.4-14.6V

**Battery Discharge Table**

Discharge Constant Current per Cell (Amperes at 25°C)

Ex/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	210.9	125.5	89.1	78.0	47.6	33.4	23.7	15.8	13.4	7.29	1.62
1.65V	207.0	123.2	87.5	76.5	46.7	32.8	22.3	14.7	13.1	7.16	1.59
1.70V	203.2	120.9	85.9	75.1	45.9	32.2	21.9	14.5	12.9	7.02	1.56
1.75V	199.4	118.6	84.2	73.7	45.0	31.6	21.5	14.2	12.6	6.89	1.53
1.80V	195.7	116.1	81.0	70.9	43.3	30.4	20.7	13.6	12.2	6.75	1.50

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

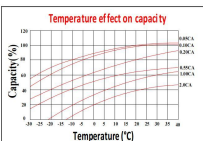
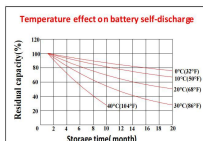
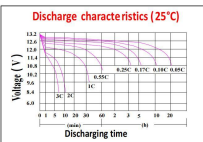
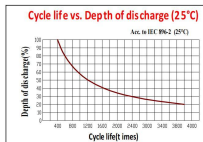
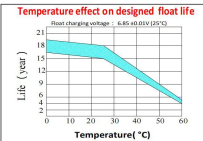
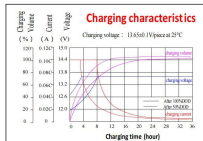
Ex/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	405.9	241.6	171.5	150.1	91.6	64.3	43.7	28.9	25.7	14.0	3.12
1.65V	398.5	237.2	168.4	147.3	90.0	63.1	42.9	28.3	25.3	13.8	3.06
1.70V	391.2	232.8	165.3	144.6	88.3	62.0	42.1	27.8	24.8	13.5	3.00
1.75V	383.8	228.4	162.2	141.9	86.6	60.8	41.4	27.1	24.3	13.3	2.94
1.80V	369.0	219.0	155.9	136.4	83.3	58.5	39.8	26.2	23.4	13.0	2.88

Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery design/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	ABS UL94-V0	Flame Retardant and aging resistance	Female Copper Inset with High pressure die design	Advanced AGM separator for high pressure die design	Dilute high purity sulphuric acid	Two layers epoxy resin seal

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