

Deep Cycle Long Life AGM Battery DC12-250

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.

12V 250Ah AGM Technology Deep Cycle



COMPLIED STANDARDS
IEC 60896-21/22 JIS C5134
VDI7799 ISO9001
GB/T 19638 CE

Applications

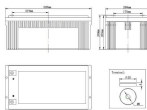
- > Solar Systems
- > Wheel chair, Golf Cart
- > Telecom systems
- > Cable TV Systems
- > Emergency Power System

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)	520 ± 1
Width(mm)	269 ± 1
Height(mm)	203 ± 1
Total Height(mm)	207 ± 1
Weight(kg)	71.0 ± 3%



Technical Specifications

Nominal Voltage	12V (6 cells per unit)	
	Design Floating Life @25°C	15 Years
Nominal Capacity @25°C (20 hour rate)	12.5A (10.8V)	250Ah
	10hour rate (11.6A, 10.8V)	216Ah
	5 hour rate (8.5A, 10.8V)	191Ah
Capacity @25°C	1 hour rate (138.6A, 9.6V)	138.2Ah
	Internal Resistance	Full Charged Battery @25°C
Ambient Temperature	Discharge	-15°C ~ 45°C
	Charge	-15°C ~ 45°C
Max Discharge Current @25°C	Storage	-15°C ~ 45°C
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	Steady Use
	Cycle Use	Initial Charging Current Less than 50A Voltage 14.4-14.6V

Battery Discharge Table

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

EV/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	118.9	223.1	158.4	139.6	84.6	59.4	40.4	26.2	23.8	11.3	1.88
1.65V	368.1	219.0	155.5	136.1	83.1	58.1	39.7	26.2	23.3	11.1	2.82
1.70V	361.2	215.0	152.6	133.6	81.5	57.2	38.9	25.7	22.9	10.9	2.77
1.75V	354.4	210.0	149.8	131.0	80.0	56.2	38.2	25.2	22.5	10.7	2.72
1.80V	348.8	205.8	144.0	126.0	76.9	54.0	36.7	24.2	21.6	12.5	2.66

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

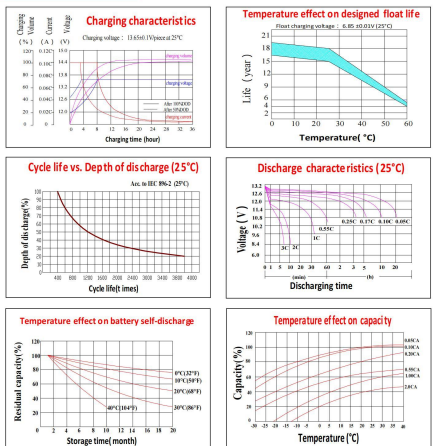
EV/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	221.6	429.1	304.9	269.8	165.9	114.1	77.8	51.1	45.7	24.9	3.56
1.65V	708.5	421.6	299.4	262.0	159.9	112.1	76.3	50.8	44.9	24.5	3.44
1.70V	698.4	413.8	293.8	257.1	157.0	110.2	74.9	49.5	44.1	24.0	3.33
1.75V	688.2	406.0	288.3	252.3	154.0	108.1	73.5	48.5	43.2	23.6	3.23
1.80V	650.0	390.4	277.2	243.6	148.1	104.0	70.7	46.7	41.6	23.1	3.13

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	Fire resistance ABS UL94 V0	Flame Retardant and aging resistance	Female Copper Inset (M10 torque 10~12N.m)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal

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