

Deep Cycle Long Life AGM Battery

DC12-40

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 40Ah 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)	198 ± 1
Width(mm)	166 ± 1
Height(mm)	174 ± 1
Total Height(mm)	174 ± 1
Weight(kg)	14.2 ± 0% 14.2 ± 0%

Technical Specifications

Nominal Voltage	12V (6 cells per unit)	
	Design Floating Life @25°C	12 Years
Nominal Capacity @25°C (20 hour rate @2.0A, 10.8V)	40Ah	
	10 hour rate (3.6A, 10.8V)	36Ah
	5 hour rate (6.0A, 10.8V)	32Ah
Capacity @25°C	1 hour rate (24.1A, 9.6V)	24.1Ah
	Internal Resistance	Full Charged Battery @25°C
Ambient Temperature	Discharge	-15°C ~ 45°C
	Charge	-15°C ~ 45°C
	Storage	-15°C ~ 45°C
Max Discharge Current @25°C	Discharge	≥20(Ax5)
	Capacity affected by Temperature (10 hour)	40°C
Self-Discharge @25°C per Month	25°C	100%
	0°C	85%
	-15°C	65%
	7%	
Charge (Constant Voltage) @25°C	Steady Use	Initial Charging Current Less than 12.0A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 12.0A Voltage 14.4-14.6V

Battery Discharge Table

I/Time	Discharge Constant Current per Cell (Amperes at 25°C)										
	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	64.7	39.4	36.1	24.4	14.1	9.9	6.7	4.4	4.0	2.16	0.48
1.65V	63.5	38.7	35.9	24.0	13.8	9.7	6.6	4.4	3.9	2.12	0.47
1.70V	62.3	37.9	35.4	23.5	13.6	9.5	6.5	4.3	3.8	2.08	0.46
1.75V	61.2	37.2	35.0	23.1	13.3	9.4	6.4	4.2	3.7	2.04	0.45
1.80V	58.8	35.8	34.0	22.2	12.8	9.0	6.1	4.0	3.6	2.00	0.44

I/Time	Discharge Constant Power per Cell (Watts at 25°C)										
	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	124.5	75.8	70.1	47.0	27.1	19.1	13.0	8.6	7.6	4.2	0.92
1.65V	122.2	74.4	69.9	46.2	26.7	18.7	12.7	8.4	7.5	4.1	0.91
1.70V	120.0	73.0	69.0	45.3	26.2	18.4	12.5	8.2	7.3	4.0	0.89
1.75V	117.7	71.7	68.0	44.4	25.7	18.0	12.3	8.1	7.2	3.9	0.87
1.80V	115.2	69.9	66.2	42.7	24.7	17.3	11.8	7.8	6.9	3.9	0.85

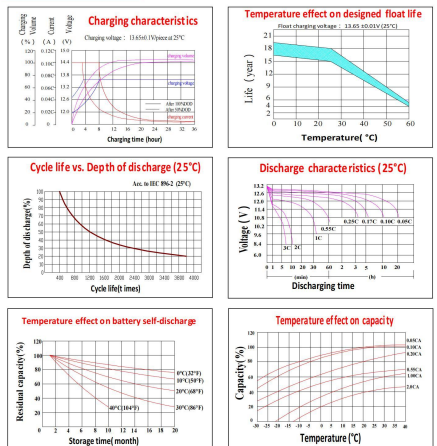
Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery design/specifications are subject to modification without notice. Contact: **CSBattery** for the latest information.

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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 sulphuric resin seal

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