

# Deep Cycle VRLA AGM Battery

# HTD12-42

<b>12V</b> Voltage	<b>42Ah</b> Capacity	<b>AGM</b> Technology	<b>Deep</b> Cycle
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CSPower HTD series deep cycle long life vrla amg battery uses a different chemistry additives in the positive plates and special AGM separators, The HTD series features 70% higher cyclic life with 12-15 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.



## GENERAL FEATURES

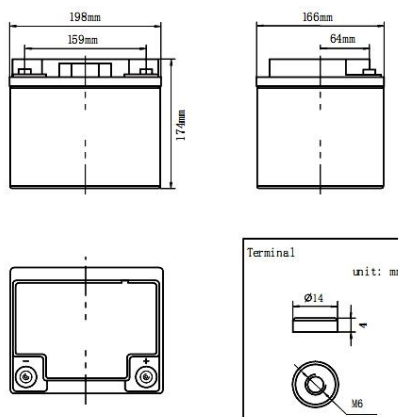
- Thicker plate with high Tin low Calcium alloy
- High Reliability and Good Quality
- Deep Discharge Recovery
- High Power Density
- Longer Service Life, in both Float or Cyclic

## APPLICATIONS

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

## DIMENSIONS & WEIGHT

Length(mm)	198 ± 1
Width(mm)	166 ± 1
Height(mm)	174 ± 1
Total Height(mm)	174 ± 1
Weight(kg)	14.2 ± 3%



## TECHNICAL SPECIFICATIONS

Nominal Voltage		12V(6 cells per unit)
Design Floating Life @25°C		12 Years
Nominal Capacity @25°C (20 hour rate@2.1A,10.8V)		42Ah
Capacity @25°C	10hour rate (3.6A,10.8V)	36Ah
	5 hour rate (6.4A,10.5V)	32Ah
	1 hour rate (24.1A,9.6V)	24.1Ah
Internal Resistance	Full Charged Battery@25°C	≤10 mΩ
Ambient Temperature	Discharge	-15°C~45°C
	Charge	-15°C~45°C
	Storage	-15°C~45°C
Max.Discharge Current@25°C		240A(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 12.0A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 12.0A Voltage 14.4-14.9V

## BATTERY DISCHARGE TABEL

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	64.7	39.4	26.4	24.4	14.1	9.9	6.7	4.4	4.0	2.26	0.48
1.65V	63.5	38.7	25.9	24.0	13.8	9.7	6.6	4.4	3.9	2.22	0.47
1.70V	62.3	37.9	25.4	23.5	13.6	9.5	6.5	4.3	3.8	2.18	0.46
1.75V	61.2	37.2	25.0	23.1	13.3	9.4	6.4	4.2	3.7	2.14	0.45
1.80V	58.8	35.8	24.0	22.2	12.8	9.0	6.1	4.0	3.6	2.10	0.44

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

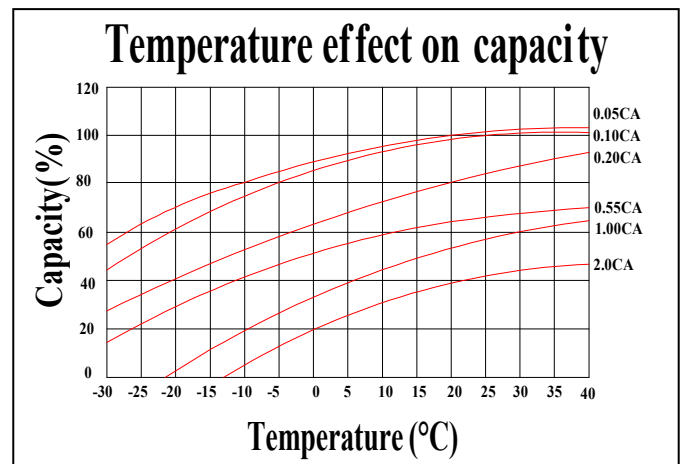
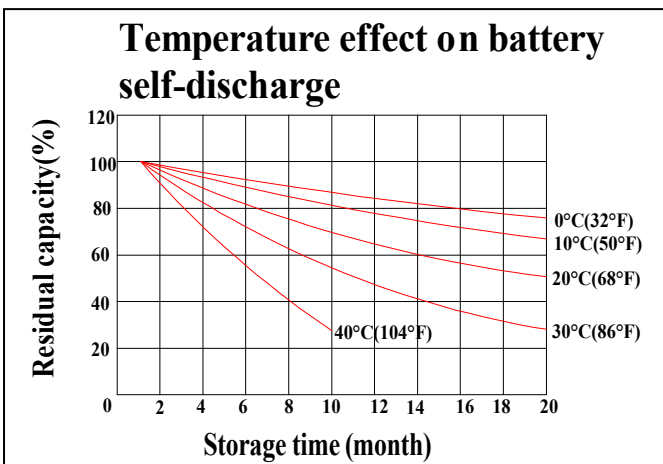
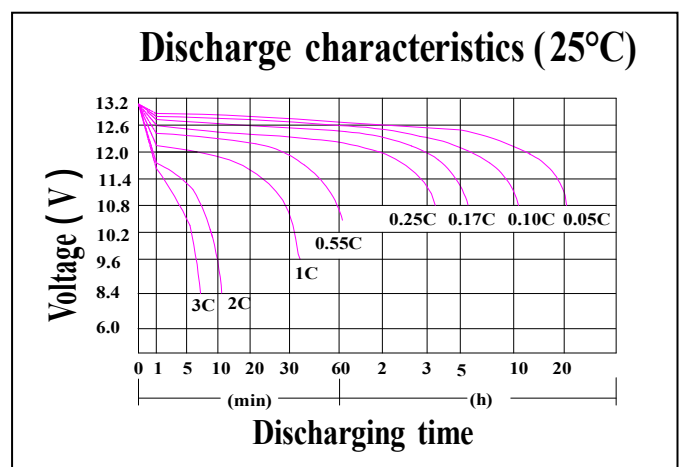
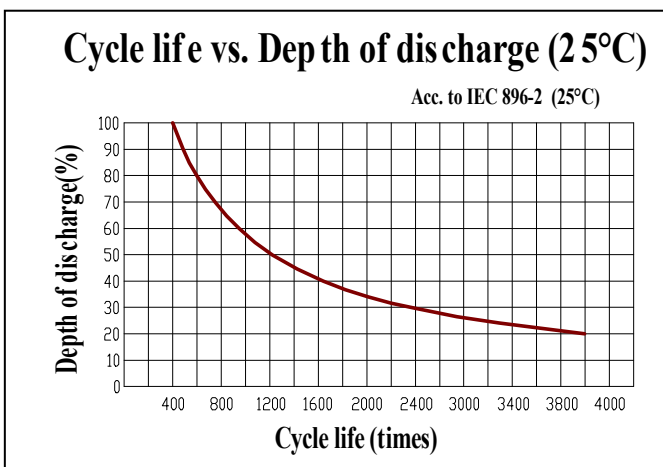
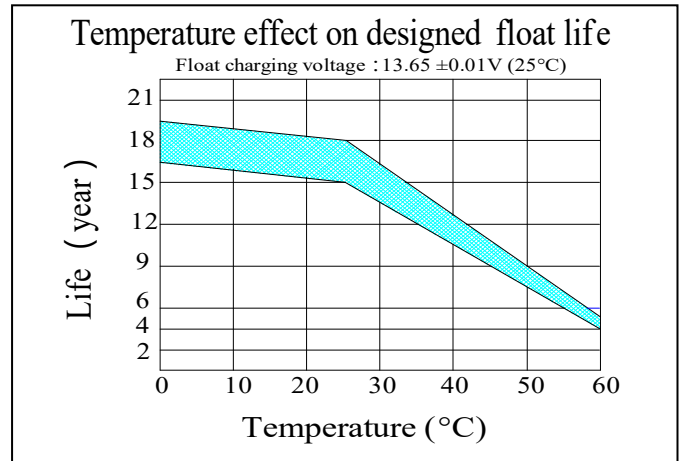
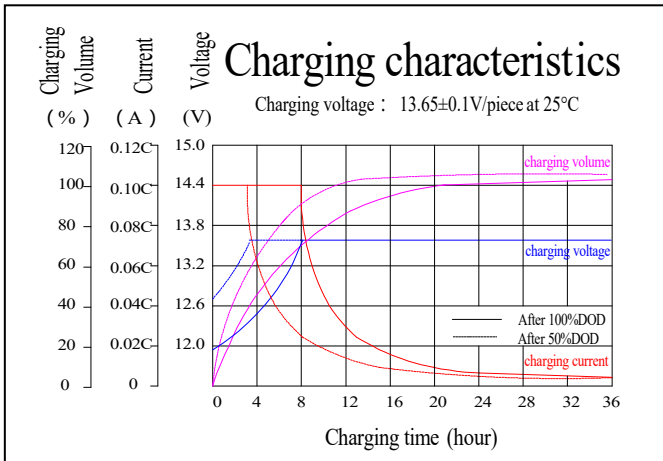
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	124.5	75.8	50.8	47.0	27.1	19.1	13.0	8.6	7.6	4.2	0.92
1.65V	122.2	74.4	49.9	46.2	26.7	18.7	12.7	8.4	7.5	4.1	0.91
1.70V	120.0	73.0	49.0	45.3	26.2	18.4	12.5	8.2	7.3	4.0	0.89
1.75V	117.7	71.7	48.0	44.4	25.7	18.0	12.3	8.1	7.2	3.9	0.87
1.80V	113.2	68.9	46.2	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 designs/specifications are subject to modification without notice. Contact **CSPower** 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 resister	Female Copper Insert M6(torque: 3~4N.m)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal

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