

High Discharge Rate AGM Battery

HR12-540W

CSBattery HR (High Rate) series Valve Regulated Lead Acid (VRLA) battery is designed for heavy load discharge applications with 8 years design life in float service. By using strong grids, thick plate and specially designed active material. It is with lower I.R, lower self discharge rate, high power, and longer service life. The HR series battery offers 30% more power output than the standard series. It is suitable for high power standby used, such as datacenter, UPS, EPS etc.

**12V
540W**

**AGM
Technology**

**High Rate
Discharge**



Applications

- UPS & EPS
- Emergency lighting Systems
- Medical Equipment
- The office computer
- Cable TV Systems
- Alarm Systems

General Features

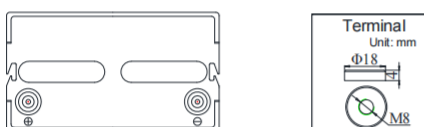
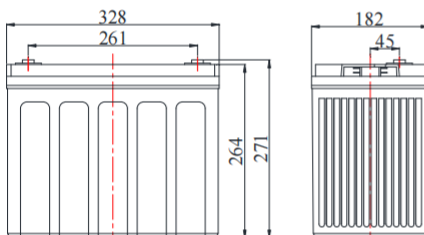
- Thicker plate with high Tin low Calcium alloy
- High Reliability and Good Quality
- Deep Discharge Recovery
- High Power Density
- Longer Service Life, in both Float or Cyclic

COMPLIED STANDARDS



Dimensions & Weight

Length(mm)	328±1
Width(mm)	182±1
Height(mm)	264±1
Total Height(mm)	271±1
Weight(kg)	46±3%



Technical Specifications

Nominal Voltage		12V(6 cells per unit)
Design Floating Life @25℃		12 Years
Watts/cell@25℃(@15min,10.02V)		540W
Capacity @25℃	10 hour rate (15.5A,10.8V)	155Ah
	3 hour rate (41.0A,10.5V)	123.0Ah
	1 hour rate (106.8A,9.6V)	106.8Ah
Internal Resistance	Full Charged Battery@25℃	≤3.7mΩ
Ambient Temperature	Discharge	-20℃~50℃
	Charge	-20℃~50℃
	Storage	-20℃~50℃
Max.Discharge Current@25℃		2300A(5s)
Capacity affected by Temperature (10 hr Capacity)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-Discharge@25℃ per Month		3%
Charge (Constant Voltage) @25℃	Standby Use	Initial Charging Current Less than 38.75A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 38.75A Voltage 14.4-14.9V

Battery Discharge Table

Discharge Constant Power per Cell (Watts at 77° F 25° C)

F.V/Time	5min	10min	15min	20min	25min	30min	45min	60min	90min	120min	180min	600min
1.60V	927.5	705.4	559.3	466.5	400.7	352.1	263.9	205.8	156.1	119.6	91.9	34.10
1.67V	895.9	680.8	540.0	450.3	387.1	340.0	255.2	198.7	150.7	115.5	88.9	33.71
1.70V	866.5	657.9	520.7	434.0	374.0	328.5	246.1	192.0	145.4	111.6	85.9	33.33
1.75V	840.3	635.2	505.3	420.7	360.9	318.2	238.5	186.1	140.9	108.1	83.2	32.94
1.80V	792.3	602.1	477.9	399.1	341.4	299.7	227.3	176.1	133.0	102.0	78.6	32.55

Discharge Constant Current per Cell (Amperes at 77° F 25° C)

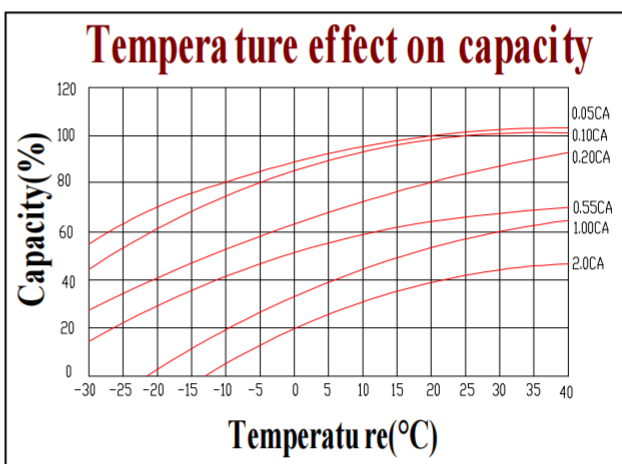
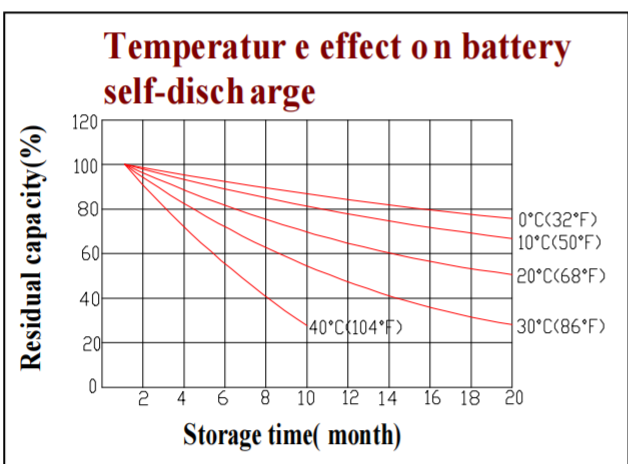
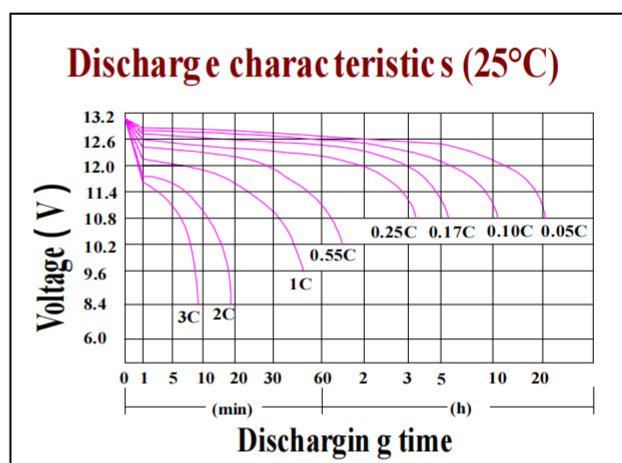
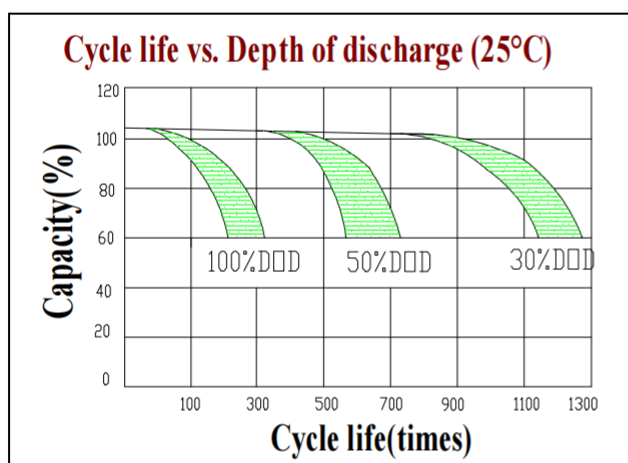
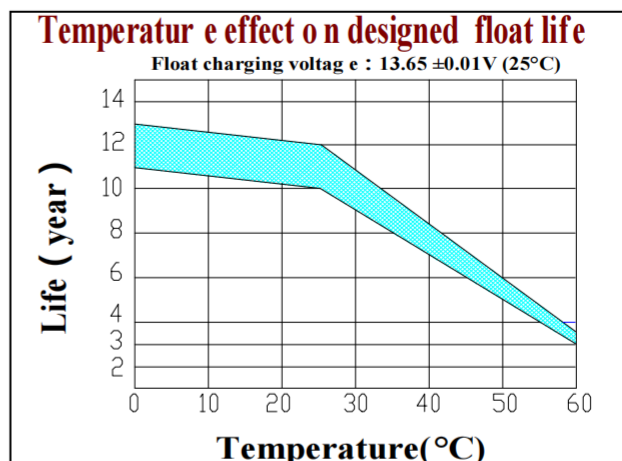
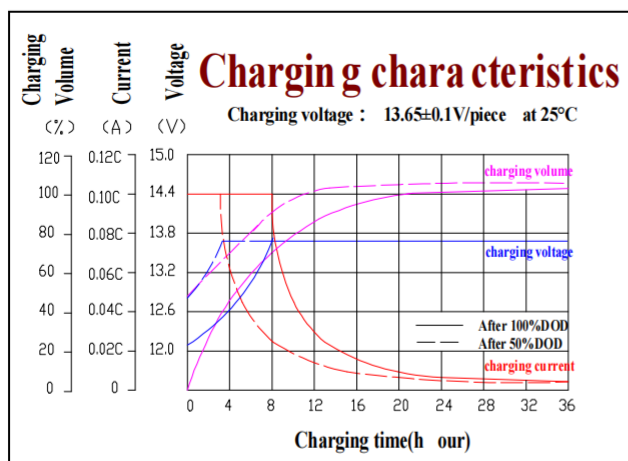
F.V/Time	5min	10min	15min	20min	25min	30min	45min	60min	90min	120min	180min	600min
1.60V	521.0	389.2	305.8	251.9	213.8	186.1	138.3	106.8	80.3	61.3	46.8	16.76
1.67V	494.5	372.0	292.0	241.1	204.5	178.0	132.3	101.9	76.9	58.7	44.6	16.43
1.70V	469.9	356.1	278.8	229.2	196.1	170.2	126.2	97.5	73.6	56.2	42.8	16.12
1.75V	450.0	339.6	267.3	220.6	186.7	163.1	121.1	93.3	70.5	53.8	41.0	15.81
1.80V	419.9	318.6	250.5	207.0	174.6	152.1	114.4	87.7	66.1	50.3	38.4	15.50

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
Raw material	Lead dioxide	Lead	ABS	ABS	Si-Rubber	Copper	Fiberglass	Sulfuric acid

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