

## High Discharge Rate AGM Battery

## CH12-230W

**CH (CSPower High Rate)** series Valve Regulated Lead Acid (VRLA) battery is designed for heavy load discharge applications with 12years 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 CH 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  
230W

AGM  
Technology

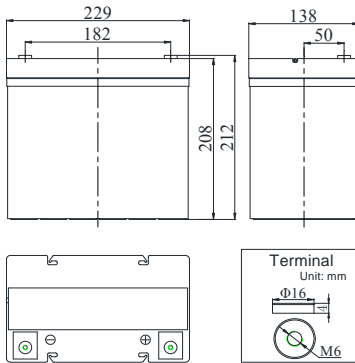
High Rate  
Discharge



COMPLIED STANDARDS



### Dimensions & Weight



### 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

### Technical Specifications

Battery Dimensions	Length	229mm
	Width	138mm
	Height	208mm
	Total Height	212mm
Box Dimensions	Length	244mm
	Width	125mm
	Height	254mm
Quantity Per Box	1 PC per box	
Net weight Per Cell	19.2 kg±3%	
Net weight Per Box	19.2kg	
Gross Weight	19.7kg	

<b>Nominal Voltage</b>		<b>12V(6 cells per unit)</b>
<b>Design Floating Life @25°C</b>		<b>12 Years</b>
<b>Watts/cell@25°C(@15min,10.02V)</b>		<b>230W</b>
<b>Capacity @25°C</b>	<b>10 hour rate (6.00A,10.8V)</b>	<b>60.0Ah</b>
	<b>3 hour rate (17.0A,10.5V)</b>	<b>54.0Ah</b>
	<b>1 hour rate (44.2A,9.6V)</b>	<b>44.2Ah</b>
<b>Internal Resistance</b>	<b>Full Charged Battery@25°C</b>	<b>≤6.0mΩ</b>
<b>Ambient Temperature</b>	<b>Discharge</b>	<b>-20°C~50°C</b>
	<b>Charge</b>	<b>-20°C~50°C</b>
	<b>Storage</b>	<b>-20°C~50°C</b>
<b>Max.Discharge Current@25°C</b>		<b>825A(5s)</b>
<b>Capacity affected by Temperature (10 hr Capacity )</b>	<b>40°C</b>	<b>102%</b>
	<b>25°C</b>	<b>100%</b>
	<b>0°C</b>	<b>85%</b>
	<b>-15°C</b>	<b>65%</b>
<b>Self-Discharge@25°C per Month</b>		<b>3%</b>
<b>Charge (Constant Voltage) @25°C</b>	<b>Standby Use</b>	<b>Initial Charging Current Less than 13.8A Voltage 13.6-13.8V</b>
	<b>Cycle Use</b>	<b>Initial Charging Current Less than 13.8A Voltage 14.4-14.9V</b>

### Battery Discharge Table

#### Discharge Constant Power per Cell (Watts at 77° F25° C)

F.V/Time	5min	10min	15min	20min	25min	30min	45min	60min	90min	120min	180min	600min
<b>1.60V</b>	395.1	300.4	238.2	198.7	170.7	150.0	112.4	87.7	66.5	50.9	39.1	13.20
<b>1.67V</b>	381.6	290.0	230.0	191.8	164.9	144.8	108.7	84.6	64.2	49.2	37.9	13.05
<b>1.70V</b>	369.0	280.2	221.8	184.8	159.3	139.9	104.8	81.8	61.9	47.5	36.6	12.90
<b>1.75V</b>	357.9	270.6	215.2	179.2	153.7	135.5	101.6	79.2	60.0	46.0	35.4	12.75
<b>1.80V</b>	337.5	256.5	203.6	170.0	145.4	127.7	96.8	75.0	56.7	43.5	33.5	12.60

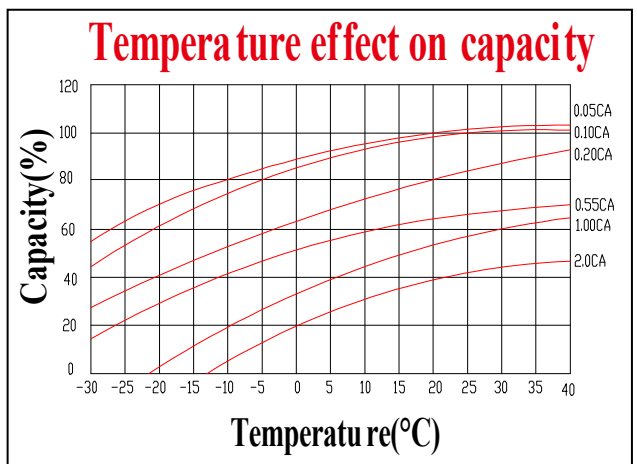
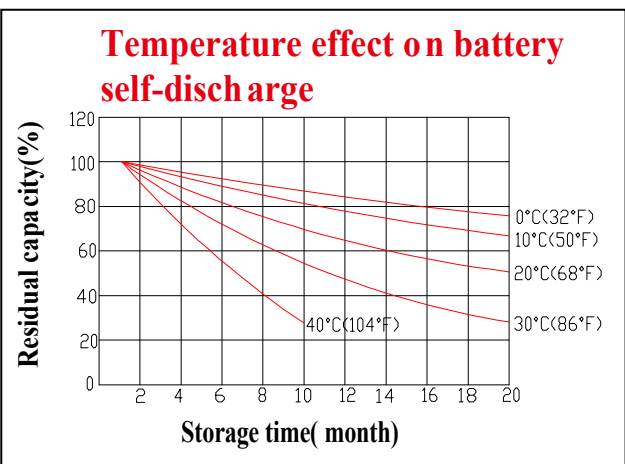
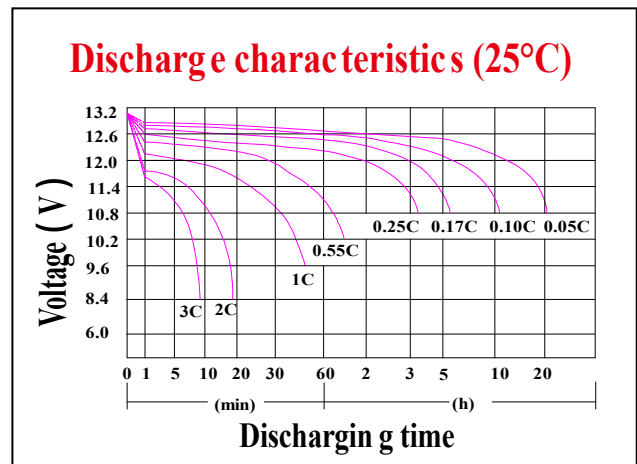
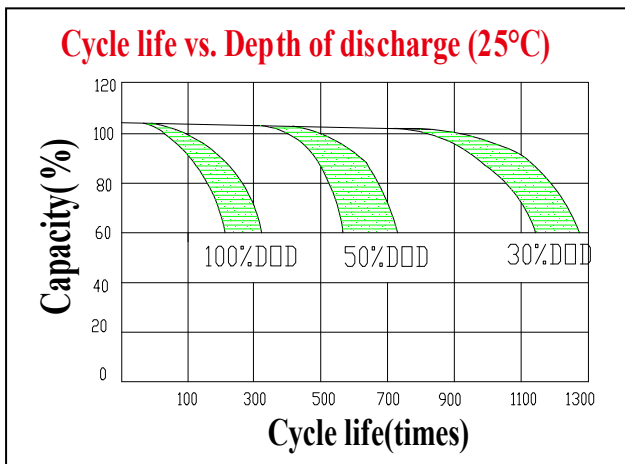
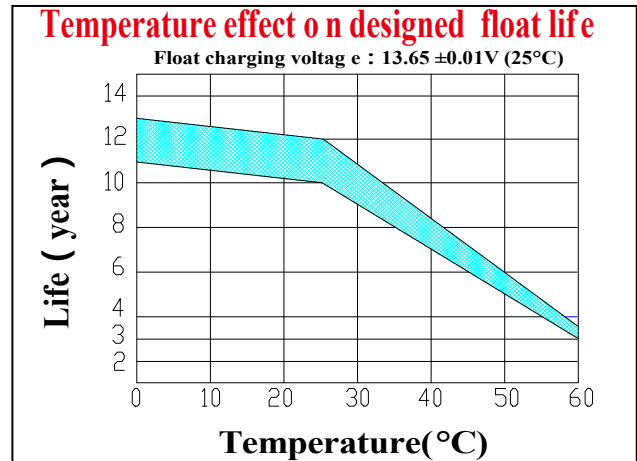
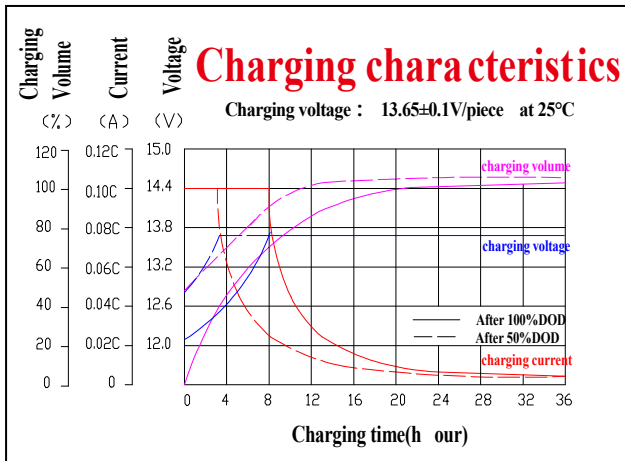
#### Discharge Constant Current per Cell (Amperes at 77° F 25° C)

F.V/Time	5min	10min	15min	20min	25min	30min	45min	60min	90min	120min	180min	600min
<b>1.60V</b>	215.6	161.0	126.5	104.2	88.5	77.0	57.2	44.2	33.2	25.4	19.3	6.49
<b>1.67V</b>	204.6	153.9	120.8	99.8	84.6	73.7	54.8	42.2	31.8	24.3	18.4	6.36
<b>1.70V</b>	194.5	147.3	115.4	94.8	81.1	70.4	52.2	40.4	30.5	23.3	17.7	6.24
<b>1.75V</b>	186.2	140.5	110.6	91.3	77.3	67.5	50.1	38.6	29.2	22.3	17.0	6.12
<b>1.80V</b>	173.8	131.9	103.7	85.7	72.3	62.9	47.3	36.3	27.3	20.8	15.9	6.00

**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.

**High Discharge Rate AGM Battery CH12-230W**

**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