

## High Discharge Rate AGM Battery

### CH12-290W

**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.

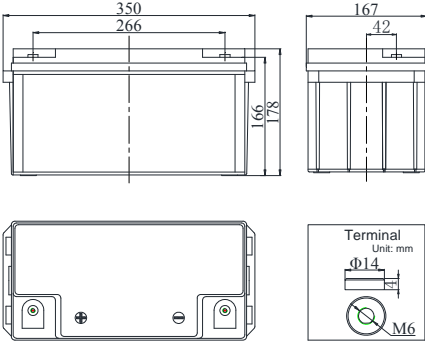
12V  
290W

AGM  
Technology

High Rate  
Discharge



### 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

### COMPLIED STANDARDS



### Technical Specifications

Battery Dimensions	Length	350mm
	Width	167mm
	Height	178mm
	Total Height	178mm
Box Dimensions	Length	375mm
	Width	183mm
	Height	329mm
Quantity Per Box		1 PC per box
Net weight Per Cell		23.0 kg±3%
Net weight Per Box		23.0kg
Gross Weight		23.5kg

Nominal Voltage		12V(6 cells per unit)
Design Floating Life @25°C		12 Years
Watts/cell@25°C (@15min,10.02V)		290W
Capacity @25°C	10 hour rate (7.5A,10.8V)	75.0Ah
	3 hour rate (21.2A,10.5V)	63.6Ah
	1 hour rate (55.2A,9.6V)	55.2Ah
Internal Resistance	Full Charged Battery@25°C	≤5.5mΩ
Ambient Temperature	Discharge	-20°C~50°C
	Charge	-20°C~50°C
	Storage	-20°C~50°C
Max.Discharge Current@25°C		1125A(5s)
Capacity affected by Temperature (10 hr Capacity)	40°C	102%
	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 18.8A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 18.8A Voltage 14.4-14.9V

### 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
1.60V	498.1	378.8	300.3	250.5	215.2	189.1	141.7	110.5	83.8	64.2	49.3	16.50
1.67V	481.1	365.6	290.0	241.8	207.9	182.6	137.1	106.7	80.9	62.0	47.7	16.31
1.70V	465.3	353.3	279.7	233.1	200.8	176.4	132.1	103.1	78.1	60.0	46.1	16.13
1.75V	451.3	341.1	271.3	225.9	193.8	170.9	128.1	99.9	75.7	58.0	44.7	15.94
1.80V	425.5	323.4	256.7	214.3	183.4	161.0	122.1	94.6	71.4	54.8	42.2	15.75

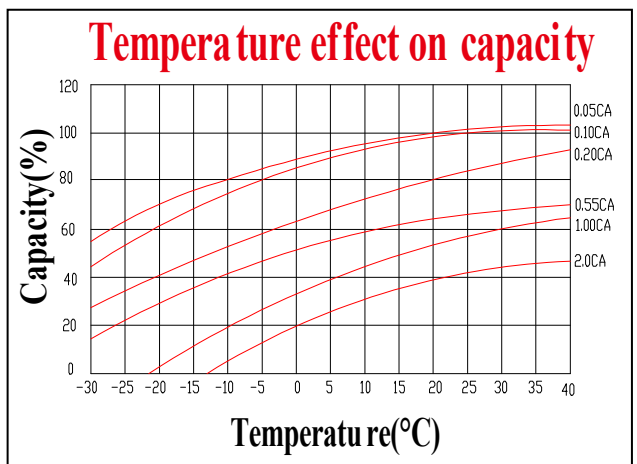
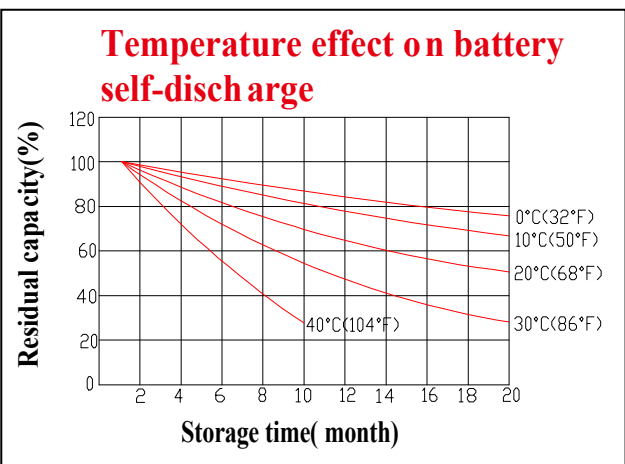
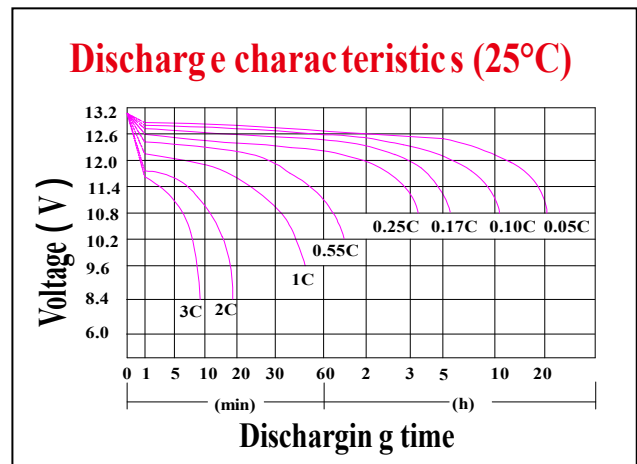
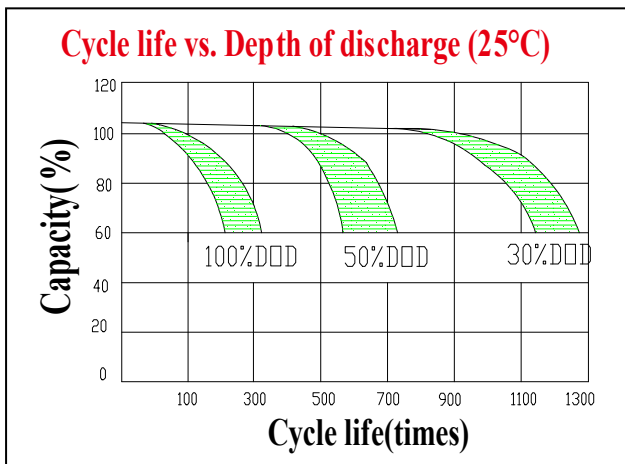
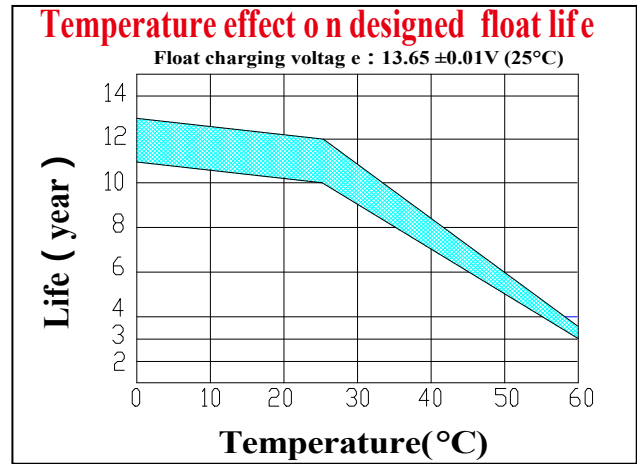
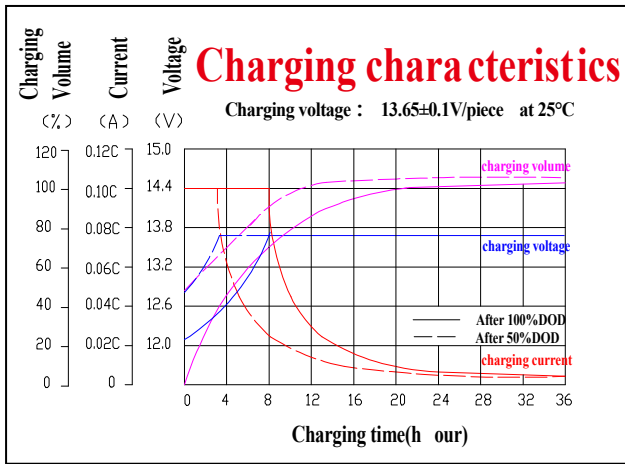
#### Discharge Constant Current per Cell (Amperes at 77° F 25° C)

F.V/Time	5min	10min	15min	20min	25min	30min	45min	60min	90min	120min	180min	600min
1.60V	269.5	201.3	158.2	130.3	110.6	96.3	71.5	55.2	41.5	31.7	24.2	8.11
1.67V	255.8	192.4	151.0	124.7	105.8	92.1	68.4	52.7	39.8	30.4	23.0	7.95
1.70V	243.1	184.2	144.2	118.5	101.4	88.0	65.3	50.4	38.1	29.1	22.1	7.80
1.75V	232.7	175.6	138.3	114.1	96.6	84.4	62.6	48.3	36.5	27.8	21.2	7.65
1.80V	217.2	164.8	129.6	107.1	90.3	78.7	59.2	45.4	34.2	26.0	19.8	7.50

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

