

# CHR1000-2

2V 1000AH

High Rate Battery



## CHR1000-2



## Physical Specification

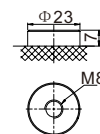
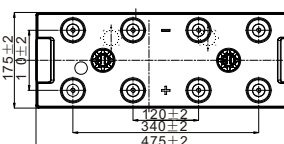
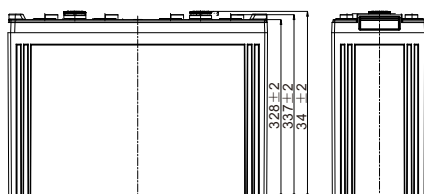
Part Number:	<b>CHR1000-2</b>
Length:	<b>475±1mm (18.70 inches)</b>
Width:	<b>175±1mm ( 6.89 inches)</b>
Container Height:	<b>328±1mm (12.91 inches)</b>
Total Height (with terminal):	<b>343±1mm (13.50 inches)</b>
Approx Weight:	<b>62.0 Kg (136.69 lbs)</b>

## Specifications

	Nominal Voltage	2V	
	Nominal Rate (W , 1.67V/cell)	2900W	
	Nominal Capacity (C10, 1.80V/cell)	1000Ah	
	Technology	High Rate Discharge	
	Terminal Type	M8	
<b>Container Material</b>	Flame Retardant (FR)	ABS (UL94:VO)	
<b>Rated Capacity (25°C)</b>	(10hr, 100.0A, 1.80V/cell)	1000.0 Ah	
	(8hr, 120.0A, 1.80V/cell)	960.0 Ah	
	(5hr, 175.0A, 1.75V/cell)	875.0 Ah	
	(3hr, 260.0A, 1.75V/cell)	780.0 Ah	
	(1hr, 600.0A, 1.67V/cell)	600.0 Ah	
<b>Max Currents (5s)</b>	8000A		
<b>Internal Resistance</b>	Approx. 0.28mΩ		
<b>Discharge Characteristics</b>	Operating Temp. Range	Discharge: -20°C~55°C (-4°F~131°F)	
		Charge: 0°C~40°C (32°F~104°F)	
		Storage: -15°C~50°C (5°F~122°F)	
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)	
	Max.Charging Current(25°C)	250A	
	Charge voltage(25°C)	Float	2.25V
		Temp. Coefficient	-3m V/cell/ C
		Equalization	2.35~2.40V
	Effect of temperature on Capacity	40°C (104°F)	106%
		25°C (77°F)	100%
0°C (32°F)		86%	
<b>Design Floating Life at 20°C</b>	20+ Years		
<b>Self Discharge</b>	Canbat High Rate batteries may be stored for up to 6 months at 25°C (77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter. Self-discharge is less than 2%		

## Dimensions

### M8 Terminal



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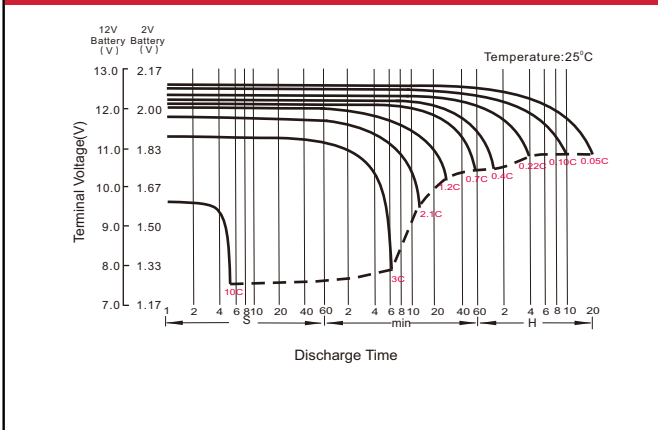
## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	2123.0	1196.6	1001.8	872.8	713.8	564.4	494.0	379.8	307.6	234.0	188.2	158.8	112.0	93.8
1.80V/cell	2474.6	1411.2	1165.0	1005.8	807.0	631.2	546.8	415.6	334.8	253.2	203.0	171.2	120.0	100.0
1.75V/cell	2700.6	1513.0	1232.4	1055.4	843.6	656.8	567.0	429.6	345.0	260.0	208.0	175.0	122.2	101.6
1.70V/cell	2924.8	1613.8	1302.4	1110.6	880.8	681.6	587.8	444.0	356.0	267.6	213.2	179.0	124.4	103.2
1.67V/cell	3053.6	1672.8	1343.6	1142.0	903.0	697.0	600.0	452.0	362.0	271.6	216.2	181.2	125.6	104.0
1.60V/cell	3366.0	1810.0	1440.0	1216.0	954.0	733.0	629.2	472.2	377.0	281.6	223.4	186.8	128.6	106.2

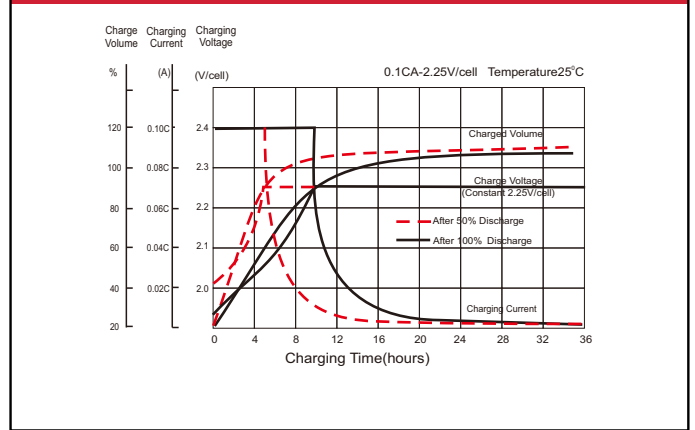
## Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	4359.8	2680.0	2251.8	1967.6	1614.2	1280.4	1008.2	777.6	631.4	481.8	370.0	312.8	221.4	185.4
1.80V/cell	5005.6	3122.2	2591.4	2245.4	1809.8	1421.2	1108.2	845.8	683.4	519.2	397.4	335.8	236.6	197.6
1.75V/cell	5378.8	3307.2	2712.8	2333.4	1875.4	1467.6	1141.0	869.0	700.6	530.8	405.8	342.4	240.4	200.4
1.70V/cell	5730.4	3481.0	2834.8	2431.0	1940.4	1511.4	1174.8	893.0	719.2	543.8	414.6	349.2	244.2	203.2
1.67V/cell	5926.0	3580.4	2900.0	2484.0	1978.8	1537.6	1193.6	905.6	728.6	550.4	419.2	352.8	246.4	204.8
1.60V/cell	6367.0	3795.4	3058.6	2603.6	2063.8	1600.0	1240.0	938.2	753.4	567.4	431.0	362.0	251.4	208.6

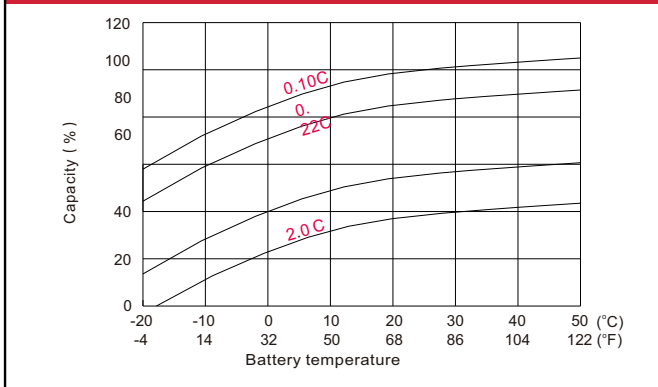
### Discharge Characteristics



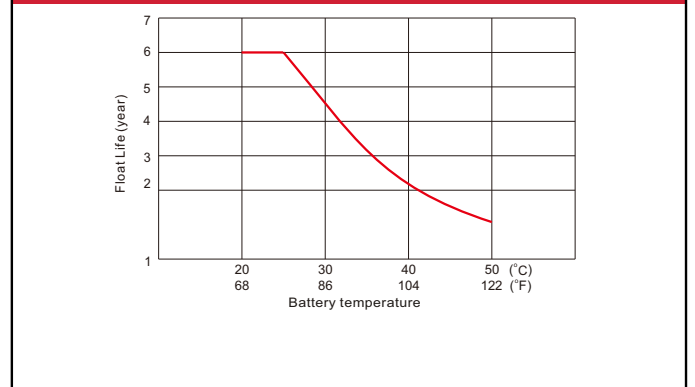
### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Temperature Effects on Long Term Float Life



### High Rate Batteries

The most important asset for many businesses is data. Whether it's customer data, employee data or financial data, no business can afford to lose it. Unfortunately, unexpected power interruptions may lead to a loss of data, which could potentially cost thousands of dollars. To solve this issue, Canbat has developed the highest performing high rate batteries, which are specially designed for back-up power systems. Our batteries have a proven track record to be the most reliable in the industry, backed up with the best warranty in Canada. In the event of a power outage, UPS systems provide back-up power to your equipment. The most important component in any UPS is the battery. Whether the UPS is hooked up to your personal computer at home, or to your equipment at work, Canbat offers top-performing batteries you can count on. If you don't have high performing batteries in your UPS during a power outage, you are putting yourself at risk of losing data. A power surge or blackout could erase hours of hard work and damage your equipment.

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