

CZV420-2

Physical Specification

Part Number: CZV420-2

Length: $145 \pm 2 \text{ mm} (5.71 \text{ inches})$

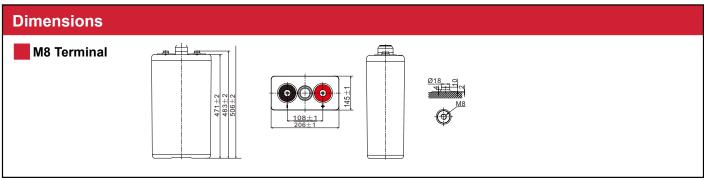
Width: $206 \pm 2 \text{ mm} (8.11 \text{ inches})$

Container Height: 471 ± 2 mm (18.54inches)

Total Height (with terminal): 506 ± 2 mm (19.92inches)

Approx Weight: 34.5 kg (76.06 lbs)

Specifications							
	Nominal Voltage	2V 420AH					
	(C10, 1.80V/cell)						
Terminal Option	M8						
Container Material	Standard Option	ABS					
	Flame Retardant Option (FR)	ABS (UL94:VO)					
Rated Capacity	(10hr,42.0A,1.80V/cell)	420.0 Ah					
	(5hr,73.1A,1.75V/cell)	365.5 A					
	(3hr,108.0A,1.75V/cell)	324.0 Ah					
	(1hr,235.0A,1.65V/cell)	235.0 Ah					
Max.Charging Current (25°C)	105.0A						
Max Discharge Current (5s)	3360A						
Internal Resistance	Approx. 0.80mΩ						
Discharge Characteristics		Discharge: -20°C~55°C (-4°F~131°F)					
	Operating Temp. Range	Charge: -0°C~40°C (32°F~104°F)					
		Storage: -20°C~50°C (-4°F~122°F)					
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)					
		Float: 2.25V					
	Charge Voltage (25°C)	Temp. Coefficient: -3mV/cell/°C					
		Cycle(Equalization): 2.35~2.40V					
	Self Discharge	Less than 3% per month at 25°C					
		40°C (104°F) 106%					
	Capacity affected by Temperature	25°C (77°F) 100%					
		0°C (32°F) 86%					
Design Floating Life at 25°C	20 Years						
Self Discharge		hay be stored for up to 6 months at 25°C (77°F) and then a refreatures the time interval will be shorter. Self-discharge is less than 2					

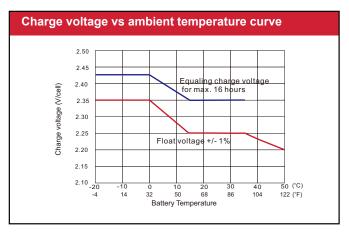


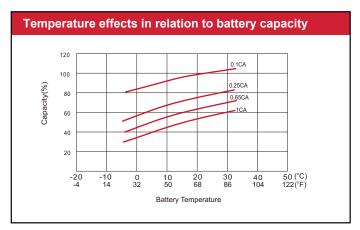
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Constant Current Discharge (Amperes) at 25 °C (77°F)									
F.V/Time	10 m i n	15 m i n	30 m i n	1 h	2 h	3 h	5 h	8 h	10h
1.85V/cell	329.0	303.0	248.0	188.0	126.0	97.2	66.5	46.8	39.3
1.80V/cell	405.0	367.0	289.0	212.0	139.0	106.0	71.8	50.0	42.0
1.75V/cell	479.0	411.0	308.0	220.0	142.0	108.0	73.1	51.0	42.7
1.70V/cell	537.0	449.0	326.0	229.0	146.0	110.0	74.3	51.5	43.2
1.65V/cell	577.0	474.0	339.0	235.0	149.0	112.0	75.4	52.0	43.6
1.60V/cell	604.0	490.0	347.0	239.0	151.0	114.0	76.2	52.8	43.9

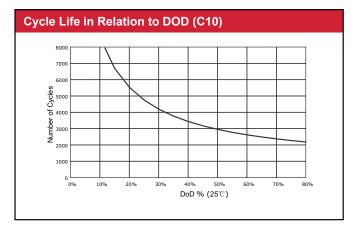
Constant Power Discharge (Watts/cell) at 25 C (77°F) °									
F.V/Time	10 m in	15min	30 m i n	1 h	2 h	3 h	5 h	8 h	10h
1.85V/cell	612.0	570.0	473.0	363.0	245.0	190.0	131.0	92.8	78.2
1.80V/cell	740.0	680.0	546.0	407.0	268.0	206.0	141.0	99.0	83.4
1.75V/cell	860.0	751.0	576.0	420.0	274.0	209.0	143.0	100.6	84.6
1.70V/cell	948.0	808.0	604.0	434.0	280.0	213.0	145.0	101.6	85.4
1.65V/cell	1000.0	840.0	621.0	443.0	284.0	216.0	146.0	102.4	86.2
1.60V/cell	1026.0	857.0	631.0	448.0	286.0	217.0	147.0	103.0	86.6

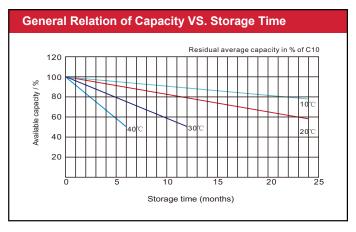




OPzV Tubular Gel Batteries

Canbat OPzV cells are a type of valve regulated sealed lead-acid (VRLA) batteries, designed in Canada with tubular gel technology. They are ideal for applications with discharge over a long period, such as renewable energy, telecom backup, oil and gas, energy storage, railway, emergency lighting and switchgear. Canbat OPzV tubular gel batteries offer high capacity reserve power and deep cycle performance. They also offer a long service life of over 20 years at 20°C (68°F) and a reliable maintenance-free and non-spillable construction. OPzV cells are developed with high capacities to give you more options to meet your energy needs. OPzV technology utilizes tubular positive plates and a fixed gel electrolyte, making them the best valve-regulated battery design available. The 2V series of Canbat OPzV batteries are built with monoblock cells (2V/cell), making it easy to group them and create various battery banks of 12V, 24V and 48V.





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