

CZV300-2

Physical Specification

Part Number: CZV300-2

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

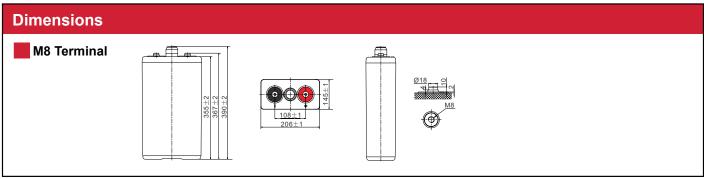
Width: $206 \pm 2 \text{ mm} (8.11 \text{ inches})$

Container Height: 355 ± 2 mm (13.97inches)

Total Height (with terminal): 390 ± 2 mm (15.35inches)

Approx Weight: 27.1 kg (59.75 lbs)

	Nominal Voltage	2V 300AH						
	(C10, 1.80V/cell)							
Terminal Option	M8							
Container Material	Standard Option ABS							
	Flame Retardant Option (FR)	ABS (UL94:VO)						
Rated Capacity	(10hr,30.0A,1.80V/cell)	300.0 Ah						
	(5hr,52.6A,1.75V/cell)	263.0Ah						
	(3hr,77.9A,1.75V/cell)	233.7Ah						
	(1hr,168.0A,1.65V/cell)	168.0 Ah						
Max.Charging Current (25°C)	75.0A							
Max Discharge Current (5s)	2400A							
Internal Resistance	Approx. 1.0mΩ							
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	Canbat Tubular Gel OPzV Batteries may be stored for up to 6 months at 25°C (77°F) and then a refr charge is required. For higher temperatures the time interval will be shorter. Self-discharge is less than 2							



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1.65V/cell

778.0

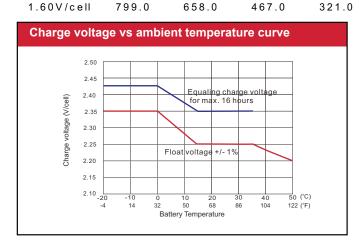


Constant Current Discharge (Amperes) at 25 °C (77°F)											
F.V/Time	10 m i n	15 m in	3 0 m i n	1 h	2 h	3 h	5 h	8 h	10h		
1.85V/ceII	256.0	233.0	183.0	135.0	91.2	70.0	47.8	33.3	28.1		
1.80V/ceII	315.0	282.0	214.0	152.0	100.0	76.2	51.6	35.7	30.0		
1.75V/cell	373.0	316.0	228.0	158.0	103.0	77.9	52.6	36.3	30.5		
1.70V/cell	418.0	344.0	241.0	164.0	106.0	79.5	53.4	36.8	30.8		
1.65V/cell	449.0	364.0	251.0	168.0	108.0	81.0	54.2	37.2	31.1		
1.60V/cell	470.0	377.0	257.0	171.0	109.0	81.9	54.8	37.5	31.4		
Constant Power Discharge (Watts/cell) at 25 C (77 F)											
F.V/Time	10 m i n	15 m i n	3 0 m i n	1 h	2 h	3 h	5 h	8 h	10h		
1.85V/cell	476.0	438.0	350.0	260.0	177.0	137.0	94.1	66.1	55.9		
1.80V/cell	576.0	522.0	404.0	291.0	194.0	148.0	101.0	70.6	59.6		
1.75V/cell	669.0	577.0	426.0	301.0	198.0	151.0	103.0	71.7	60.4		
1.70V/cell	738.0	620.0	447.0	311.0	202.0	153.0	104.0	72.4	61.0		

317.0

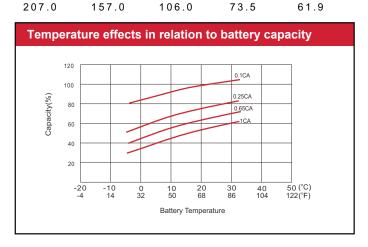
205.0

155.0



645.0

460.0



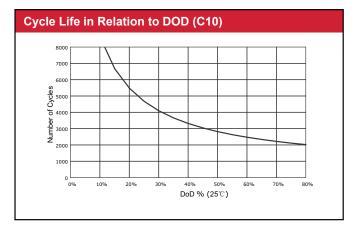
105.0

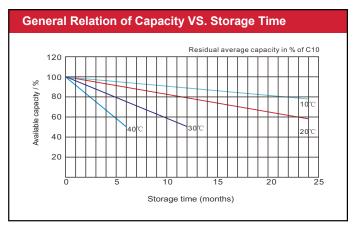
73.1

61.5

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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