**CZV100-12** 12V 100AH Tubular Gel OPzV



## CZV100-12



# **Physical Specification**

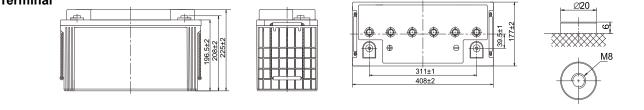
Part Number:	CZV100-12
Length:	408 ± 2 mm (16.06 inches)
Width:	177 ± 2 mm (6.97 inches)
Container Height:	196.5±2mm(7.74 inches)
Total Height (with terminal	225 ± 2 mm (8.86 inches)
Approx Weight:	38.3 kg (84.44 lbs)

## **Specifications**

	Nominal Voltage	12V			
	(C10, 1.80V/cell)	100AH			
Terminal Option	M8				
Container Material	Standard Option	ABS			
	Flame Retardant Option (FR)	ABS (UL94:VO)			
Rated Capacity	(10hr,10.0A,1.80V/cell)	100.0 Ah			
	(5hr,17.5A,1.75V/cell)	87.5 Ah			
	(3hr,25.2A,1.75V/cell)	75.6 Ah			
	(1hr,59.3A,1.65V/cell)	59.3 Ah			
Max.Charging Current (25°C)	25.0A				
Max Discharge Current (5s)	800A				
Internal Resistance	Approx. 6.5mΩ				
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: 13.5V			
	Charge Voltage (25°C)	Temp. Coefficient: -3mV/cell/°C			
		Cycle(Equalization): 14.1~14.4V			
	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 20°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 refre charge is required. For higher temperatures the time interval will be shorter. Self-discharge is less than 29				

### Dimensions

#### M8 Terminal

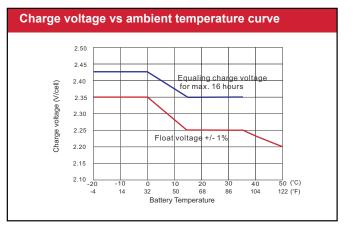


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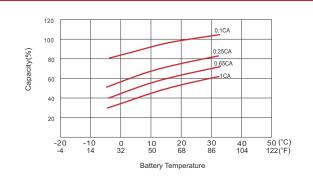
# CANBAT

Constant Current Discharge (Amperes) at 25 °C (77°F )									
F.V/Time	10min	15min	30 m i n	1 h	2 h	3 h	5 h	8 h	10h
1.85V/cell	96.5	85.1	63.6	46.5	29.5	22.5	16.1	11.3	9.57
1.80V/cell	116.0	98.3	71.4	51.0	31.9	24.1	16.9	11.8	10.0
1.75V/cell	133.1	109.9	76.8	54.3	33.5	25.2	17.5	12.1	10.2
1.70V/cell	145.4	119.3	82.2	57.3	34.7	26.2	18.0	12.3	10.3
1.65V/cell	159.0	128.0	86.0	59.3	35.9	27.1	18.4	12.5	10.5
1.60V/cell	169.6	135.4	89.2	61.1	37.1	27.7	18.8	12.7	10.7

Constant Power Discharge (Watts/cell) at 25 °C (77°F )										
F.V/Time	10min	15 min	30 m i n	1 h	2 h	3 h	5 h	8 h	10 h	
1.85V/cell	158.8	146.0	122.4	90.5	57.6	44.0	31.7	22.4	19.1	
1.80V/cell	192.0	174.0	136.3	98.8	62.1	47.0	33.2	23.4	19.9	
1.75V/cell	223.2	192.0	145.3	104.6	65.0	49.2	34.4	24.0	20.3	
1.70V/cell	246.0	206.8	154.1	110.0	67.0	50.8	35.2	24.4	20.5	
1.65V/cell	259.2	215.2	159.6	113.0	68.9	52.4	35.9	24.7	20.8	
1.60V/cell	266.0	219.6	163.9	115.8	70.9	53.3	36.6	25.1	21.1	



Temperature effects in relation to battery capacity

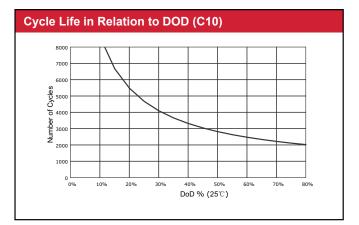


#### **OPzV Tubular Gel Batteries**

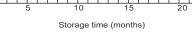
CZV100-12

12V 100AH Tubular Gel OPzV

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.



General Relation of Capacity VS. Storage Time



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