

CZV140-12

Tubular Gel OPzV



Physical Specification

Part Number: CZV140-12

Length: $532 \pm 2 \text{ mm} (20.95 \text{inches})$

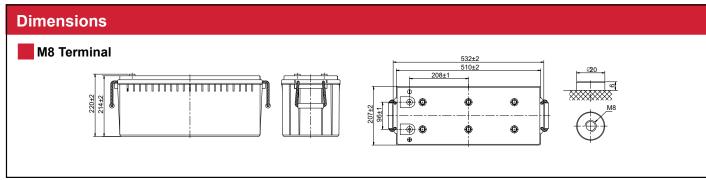
Width: $207 \pm 2 \text{ mm} (8.15 \text{ inches})$

Container Height: 214 ± 2 mm (8.43 inches)

Total Height (with terminal): 220 ± 2 mm (8.66 inches)

Approx Weight: **54.0 kg (119.1 lbs)**

Specifications						
	Nominal Voltage	12V				
	(C10, 1.80V/cell)	140AH				
Terminal Option	M8					
Container Material	Standard Option ABS					
	Flame Retardant Option (FR)	ABS (UL94:VO)				
Rated Capacity	(10hr,14.0A,1.80V/cell)	140.0 Ah				
	(5hr,24.6A,1.75V/cell) 123.0 Ah					
	(3hr,35.3A,1.75V/cell)	105.9 Ah				
	(1hr,83.0A,1.67V/cell)	83.0 Ah				
Max.Charging Current (25°C)	35.0A					
Max Discharge Current (5s)	1120A					
Internal Resistance	Approx. 5.1mΩ					
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		ay be stored for up to 6 months at 25°C (77°F) and then a refretures the time interval will be shorter. Self-discharge is less than 2				

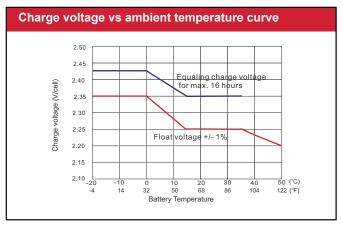


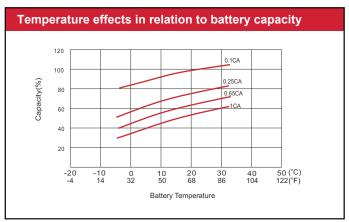
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Constant Current Discharge (Amperes) at 25 °C (77°F)									
F.V/Time	10 m in	15min	30 m in	1 h	2 h	3 h	5 h	8 h	10h
1.85V/cell	135.1	119.2	89.0	65.1	41.3	31.5	22.5	15.8	13.4
1.80V/cell	162.5	137.7	100.0	71.4	44.7	33.7	23.7	16.5	14.0
1.75V/cell	186.4	153.8	107.5	76.0	46.9	35.3	24.6	16.9	14.3
1.70V/cell	203.5	167.0	115.1	80.4	48.6	36.7	25.2	17.2	14.4
1.67V/cell	222.5	179.2	120.4	83.0	50.3	37.9	25.8	17.5	14.7
1.60V/cell	237.5	189.5	124.9	85.3	51.9	38.8	26.3	17.8	15.0

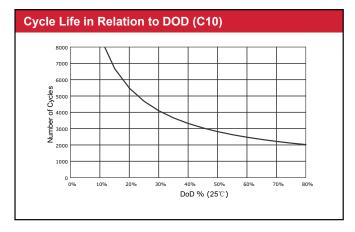
Constant Power Discharge (Watts/cell) at 25 °C (77°F)									
F.V/Time	10min	15 m i n	30 m i n	1 h	2 h	3 h	5 h	8 h	10h
1.85V/cell	222.3	204.4	170.0	126.7	80.6	61.6	44.4	31.4	26.7
1.80V/cell	268.8	243.6	190.8	138.3	86.9	65.8	46.5	32.8	27.9
1.75V/cell	312.5	268.8	203.4	146.4	91.0	68.9	48.2	33.6	28.4
1.70V/cell	344.4	289.5	215.7	154.0	93.8	71.1	49.3	34.2	28.7
1.67V/cell	362.9	301.3	223.4	158.2	96.5	73.4	50.3	34.6	29.1
1.60V/cell	372.4	307.4	229.5	162.1	99.3	74.6	51.2	35.1	29.5

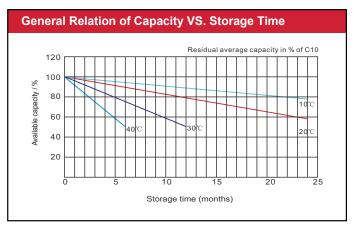




OPzV Tubular Gel Batteries

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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