

## CZV180-12



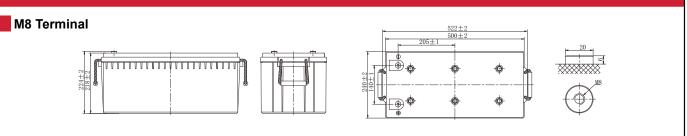
# **Physical Specification**

Part Number:	CZV	180-12
Length:	522	± 2 mm (20.55inches)
Width:	240	±2mm(9.45 inches)
Container Height:	218	±2 mm (8.58 inches)
Total Height (with terminal)	): <b>224</b>	±2mm(8.81 inches)
Approx Weight:	67.4	kg (148.59 lbs)

### **Specifications**

	Nominal Voltage	12V					
	(C10, 1.80V/cell)	180AH					
Terminal Option	M8						
Container Material	Standard Option	ABS					
	Flame Retardant Option (FR)	ABS (UL94:VO)					
Rated Capacity	(10hr,18.0A,1.80V/cell)	180.0 Ah					
	(5hr,31.6A,1.75V/cell)	158.0 Ah					
	(3hr,45.4A,1.75V/cell)	136.2 Ah					
	(1hr,106.7A,1.67V/cell) 106.7 Ah						
Max.Charging Current (25°C)	45.0A						
Max Discharge Current (5s)	1440A						
Internal Resistance	Approx. 5.2mΩ						
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

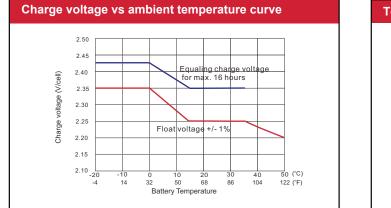


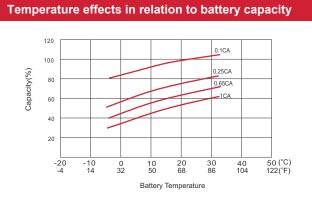
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Constant Current Discharge (Amperes) at 25 °C (77°F )									
F.V/Time	10 m i n	15 min	30 m i n	1 h	2 h	3 h	5 h	8 h	10h
1.85V/cell	173.8	153.2	114.5	83.7	53.1	40.5	29.0	20.3	17.2
1.80V/cell	208.9	177.0	128.5	91.8	57.4	43.4	30.4	21.2	18.0
1.75V/cell	239.6	197.8	138.2	97.7	60.3	45.4	31.6	21.8	18.4
1.70V/cell	261.6	214.7	148.0	103.3	62.5	47.2	32.4	22.1	18.5
1.67V/cell	286.1	230.4	154.8	106.7	64.6	48.8	33.1	22.5	18.9
1.60V/cell	305.4	243.7	160.6	109.7	66.8	49.9	33.8	22.9	19.3

Constant Power Discharge (Watts/cell) 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	285.8	262.8	218.5	162.9	103.7	79.2	57.1	40.3	34.4
1.80V/cell	345.6	313.2	245.3	177.8	111.8	84.6	59.8	42.1	35.8
1.75V/cell	401.8	345.6	261.5	188.3	117.0	88.6	61.9	43.2	36.5
1.70V/cell	442.8	372.2	277.4	198.0	120.6	91.4	63.4	43.9	36.9
1.67V/cell	466.6	387.4	287.3	203.4	124.0	94.3	64.6	44.5	37.4
1.60V/cell	478.8	395.3	295.0	208.4	127.6	95.9	65.9	45.2	38.0



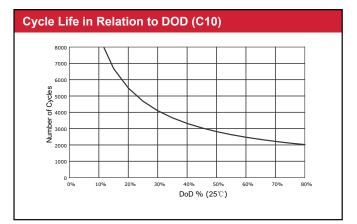


#### **OPzV Tubular Gel Batteries**

CZV180-12

12V 180AH 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

Storage time (months)

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