

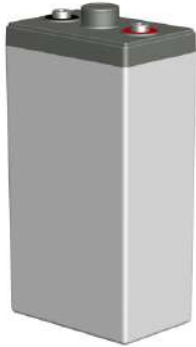
CZV250-2

2V 250AH

OPzV



CZV250-2



Physical Specification

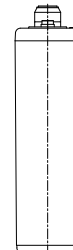
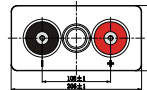
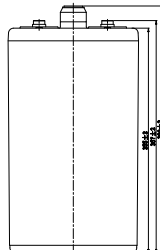
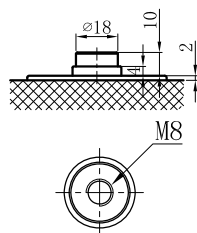
Part Number	CZV250-2
Length	124 ± 2 mm
Width	206 ± 2 mm
Container Height	354 ± 2 mm
Total Height (with terminal)	390 ± 2 mm
Approx Weight	22.0 kg

Specifications

	Nominal Voltage	2V
	Nominal Capacity (20HR)	250AH
Terminal Type	Standard Terminal	T11
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	100hr, 1.80V/cell, 25°C	307.5 AH/307.5A
	10hr, 1.80V/cell, 25°C	250 AH/25.0A
	5hr, 1.75V/cell, 25°C	219 A H/43.8A
	3hr, 1.75V/cell, 25°C	194.7 AH/64.9A
	1hr, 1.60V/cell, 25°C	143 AH/143A
Max Discharge Current	2000A (5s)	
Internal Resistance	Approx 1.1mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -20 ~ 55°C
		Charge: 0 ~ 40°C
		Storage: -20 ~ 50°C
	Cycle Use	Initial Charging Current less than 50.0A. Voltage 2.40V ~ 2.50V Temp. Coefficient -5mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 2.25V ~ 2.30V Temp. Coefficient -3mV/°C
Capacity affect by Temperature	40°C	103%
	25°C	100%
	0°C	86%
Design Floating Life at 20°C	20 Years	
Self Discharge	Canbat batteries may be stored for up to 6 months at 25°C(77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

Dimensions

T11 Terminal



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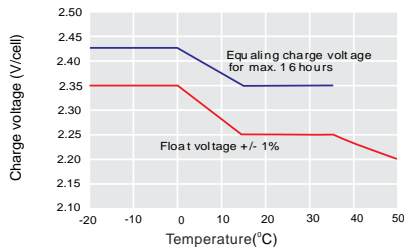
Constant Current Discharge (Amperes) at 20°C

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	213.0	194.0	153.0	112.0	76.0	58.4	39.9	27.8	23.4
1.80V/cell	263.0	235.0	178.0	126.0	83.5	63.5	43.0	29.8	25.0
1.75V/cell	311.0	263.0	190.0	131.0	85.8	64.9	43.8	30.3	25.4
1.70V/cell	348.0	287.0	201.0	136.0	88.0	66.3	44.5	30.6	25.7
1.65V/cell	374.0	303.0	209.0	140.0	89.9	67.5	45.2	31.0	25.9
1.60V/cell	392.0	314.0	214.0	143.0	91.1	68.3	45.7	31.3	26.1

Constant Power Discharge (Watts) at 20°C

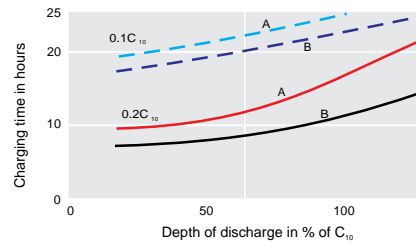
F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	397	365	292	217	148	114	78.4	55.1	46.6
1.80V/cell	480	435	337	243	161	123	84.3	58.8	49.6
1.75V/cell	558	480	355	251	165	126	85.6	59.7	50.4
1.70V/cell	615	517	372	259	168	128	86.7	60.3	50.9
1.65V/cell	648	538	383	265	171	130	87.7	60.9	51.3
1.60V/cell	665	549	389	267	173	130	88.2	61.2	51.6

Discharge Characteristics



For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for continuously different battery ambient temperature.

Float Charging Characteristics



Charge voltage :

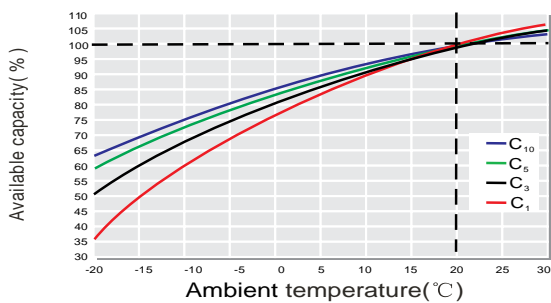
A—2.25 V/cell

B—2.40 V/cell

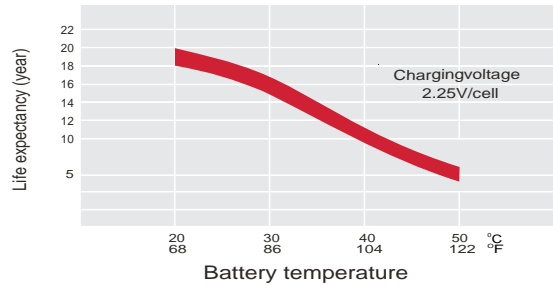
— State of charge 100 %

- - - State of charge 90 %

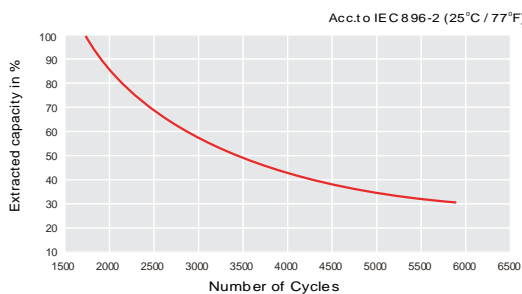
Temperature Effects in Relation to Battery Capacity



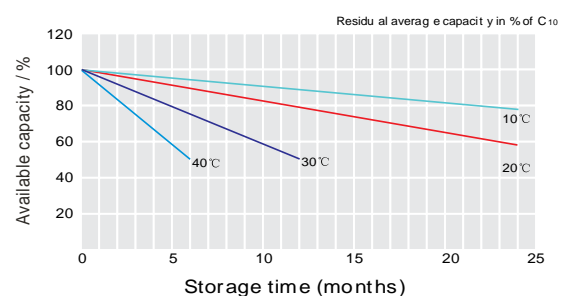
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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