

# CZS250-2

2V 250AH  
OPzS



## CZS250-2

Awaiting Image

## Physical Specification

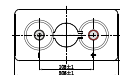
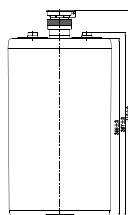
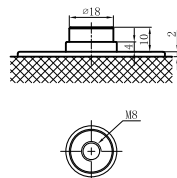
Part Number	<b>CZS250-2</b>
Length	<b>124 ± 2 mm</b>
Width	<b>206 ± 2 mm</b>
Container Height	<b>355 ± 2 mm</b>
Total Height (with terminal)	<b>410 ± 2 mm</b>
Approx Weight without / with Electrolyte	<b>15.4kg / 20.4kg</b>

## Specifications

	Nominal Voltage	2V
	Nominal Capacity (10HR)	261.0AH
Terminal Type	Standard Terminal	-
	Optional Terminal	-
Container Material	Standard Option	SAN transparent container
Rated Capacity	(100 hr, 1.80V/cell, 20°C)	307.5
	(10 hr, 1.80V/cell, 20°C)	261.0
	(5 hr, 1.75V/cell, 20°C)	240.5
	(3 hr, 1.75V/cell, 20°C)	210.0
Max Discharge Current	2000A (5s)	
Internal Resistance	Approx 0.76mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C Charge: 0 ~ 40°C Storage: -15 ~ 40°C
	Type and number of poles	-
	Charging	Floating voltage: 2.23V~2.25V at 20°C Temp. Boost charge: 2.30V~2.40V at 20°C Temp. Charging current(max.): 0.1CA Temp.Coefficient -3mV/°C
	Capacity affected by Temperature	40°C 103% 25°C 100% 0°C 86%
Design Floating Life at 20°C	- Years	
Self Discharge	Canbat CZS batteries may be stored for up to 6 months at 25°C and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

## Dimensions

### Terminal



ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE

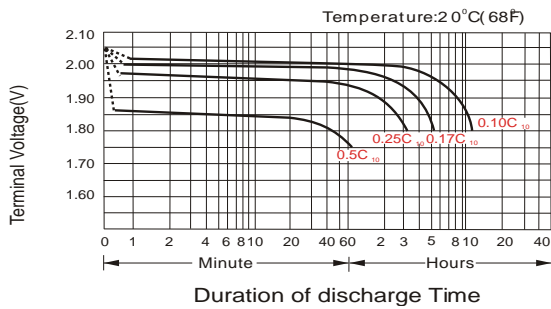
### Constant Current Discharge (Amperes) at 20°C

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	268.0	209.3	171.0	126.7	101.8	74.7	60.1	50.8	43.6	34.2	28.1	15.3
1.65V/cell	247.5	198.0	162.5	122.2	99.1	73.7	59.1	50.2	43.2	33.8	27.7	15.0
1.70V/cell	228.5	185.3	155.0	118.5	96.1	72.1	58.0	49.4	42.4	33.4	27.2	14.8
1.75V/cell	205.0	172.0	145.8	112.5	92.8	70.0	56.8	48.1	41.6	32.8	26.8	14.7
1.80V/cell	180.8	152.3	133.3	103.3	86.7	65.9	54.5	46.5	40.3	32.2	26.1	14.5
1.85V/cell	144.6	129.8	116.5	93.3	80.0	61.8	51.1	44.0	38.7	31.0	25.3	14.0

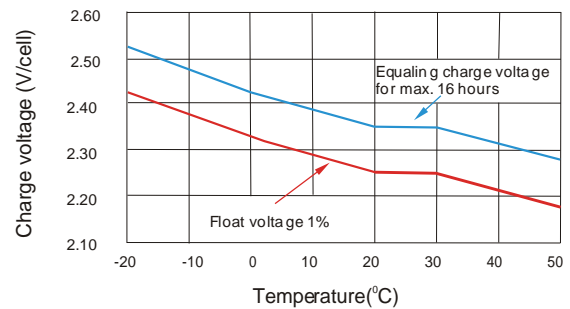
### Constant Power Discharge (Watts) at 20°C

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	457.5	366.3	303.6	227.7	185.0	136.8	111.1	94.5	81.7	64.3	53.1	29.0
1.65V/cell	431.7	350.6	290.9	220.7	181.2	135.6	109.8	93.8	81.2	63.8	52.5	28.6
1.70V/cell	404.0	331.6	279.6	215.5	176.4	133.4	108.1	92.6	80.1	63.4	51.7	28.3
1.75V/cell	368.5	311.0	265.4	206.1	171.5	130.4	106.3	90.7	78.8	62.5	51.2	28.2
1.80V/cell	329.5	279.7	245.8	191.5	161.7	123.6	102.7	88.1	76.8	61.6	50.2	28.0
1.85V/cell	267.9	241.7	218.0	175.3	150.9	117.2	97.3	84.1	74.3	59.7	49.0	27.3

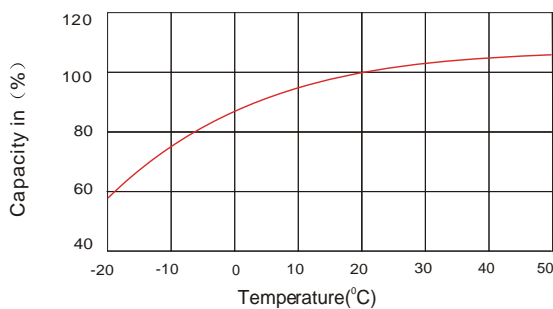
### Discharge Characteristics



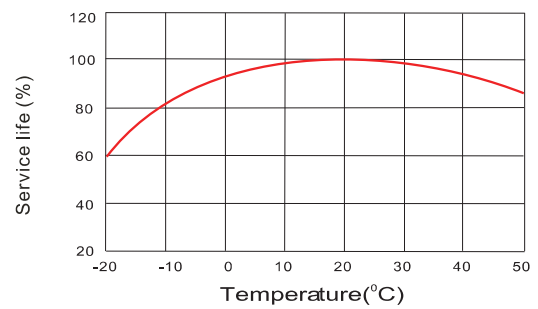
### Charge voltage Vs ambient temperature curve



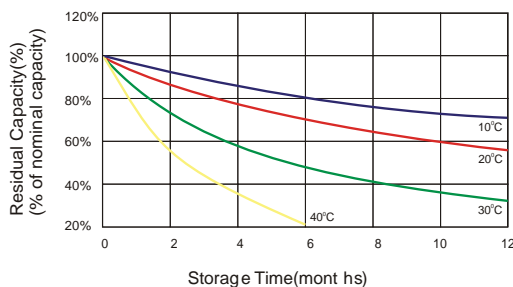
### Discharge capacity Vs Ambient temperature curve (I10A)



### Relation curves of service life and ambient temperature



### Self Discharge Characteristics



No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)

Supplementary charge required before use. Optional charging way:  
 1. Charged for above 3 days at current 0.1C A and constant voltage 2.25V/cell.  
 2. Charged for above 20 hours at current 0.1C A and constant voltage 2.45V/cell.  
 3. Charged for 8~10 hours at limited current 0.05CA .

Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.