

# CZS100-2

2V 100AH  
OPzS



## CZS100-2

Awaiting Image

## Physical Specification

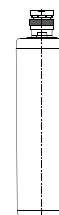
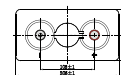
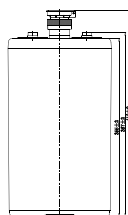
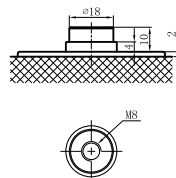
Part Number	<b>CZS100-2</b>
Length	<b>103 ± 2 mm</b>
Width	<b>206 ± 2 mm</b>
Container Height	<b>355 ± 2 mm</b>
Total Height (with terminal)	<b>410 ± 2 mm</b>
Approx Weight without / with Electrolyte	<b>8.1kg / 13.2kg</b>

## Specifications

	Nominal Voltage	2V
	Nominal Capacity (10HR)	95.5AH
<b>Terminal Type</b>	Standard Terminal	-
	Optional Terminal	-
<b>Container Material</b>	Standard Option	San transparent container
<b>Rated Capacity</b>	(100 hr, 1.80V/cell, 20°C)	123 AH/123A
	(10 hr, 1.80V/cell, 20°C)	95.5 AH/19.1A
	(5 hr, 1.75V/cell, 20°C)	83.1 AH/27.7A
	(3 hr, 1.75V/cell, 20°C)	70.7 AH/70.7A
<b>Max Discharge Current</b>	800A (5s)	
<b>Internal Resistance</b>	Approx 1.3mΩ	
<b>Discharge Characteristics</b>	Operating Temp. Range	Discharge: -15 ~ 50°C Charge: 0 ~ 40°C Storage: -15 ~ 40°C
	Type and number of poles	F8/2
	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%
<b>Design Floating Life at 20°C</b>	20 Years	
<b>Self Discharge</b>	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

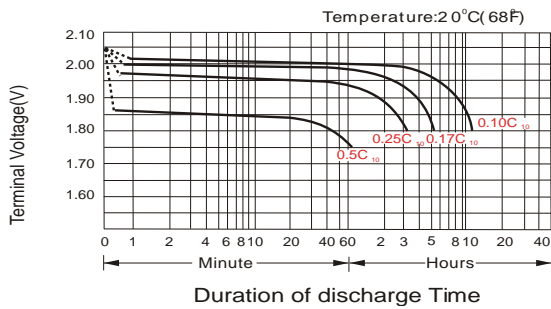
### Constant Current Discharge (Amperes) at 20°C

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	109.2	86.5	70.7	51.7	41.3	29.8	23.8	20.1	17.4	13.8	11.3	6.1
1.65V/cell	101.6	81.5	67.3	50.0	39.9	29.1	23.5	19.9	17.2	13.5	11.1	6.0
1.70V/cell	94.8	77.3	63.5	48.0	38.8	28.4	23.2	19.6	17.0	13.3	10.9	5.9
1.75V/cell	86.4	71.3	59.3	45.8	37.4	27.7	22.5	19.1	16.6	13.1	10.7	5.9
1.80V/cell	72.7	62.4	53.6	42.1	34.7	26.3	21.6	18.5	16.1	12.9	10.4	5.8
1.85V/cell	58.1	51.9	46.0	37.3	31.2	24.4	20.3	17.5	15.3	12.3	10.1	5.6

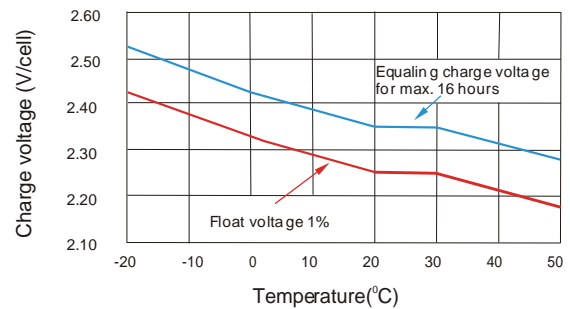
### Constant Power Discharge (Watts) at 20°C

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	186.4	151.5	125.6	93.0	75.0	54.6	44.0	37.5	32.6	25.9	21.4	11.6
1.65V/cell	177.2	144.3	120.5	90.4	72.9	53.6	43.7	37.2	32.3	25.5	21.1	11.5
1.70V/cell	167.6	138.4	114.6	87.3	71.2	52.6	43.2	36.8	32.1	25.3	20.8	11.3
1.75V/cell	155.3	129.0	108.0	83.9	69.1	51.6	42.2	36.0	31.5	25.0	20.4	11.2
1.80V/cell	132.5	114.6	98.8	78.0	64.7	49.3	40.7	35.0	30.7	24.7	20.0	11.1
1.85V/cell	107.8	96.7	86.1	70.1	58.9	46.3	38.7	33.5	29.5	23.8	19.6	10.9

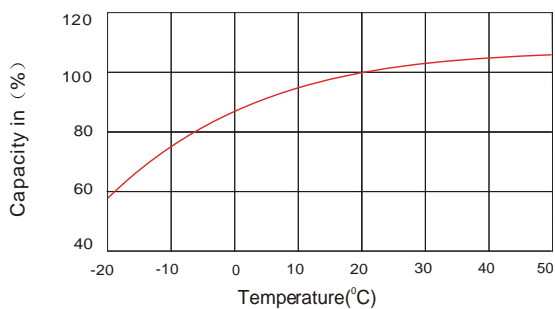
### Discharge Characteristics



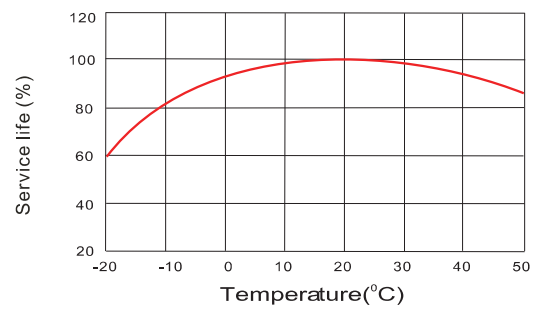
### Charge voltage Vs ambient temperature curve



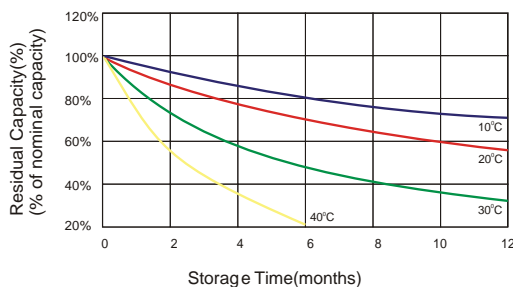
### Discharge capacity Vs Ambient temperature curve (I10A)



### 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.