CZS420-2

2V 420AH

OPzS

CZS420-2

Awaiting Image

Physical Specification

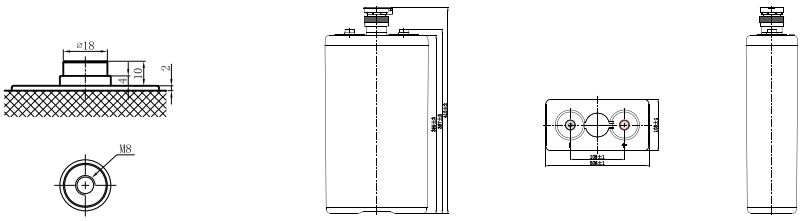
Part Number	**CZS420-2**
Length	**145 ± 2 mm**
Width	**206 ± 2 mm**
Container Height	**471 ± 2 mm**
Total Height (with terminal)	**526 ± 2 mm**
Approx Weight without / with Electrolyte	**24.5kg / 32.7kg**

Specifications

	Nominal Voltage	2V
	Nominal Capacity (10HR)	420AH
Terminal Type	Standard Terminal	-
	Optional Terminal	-
Container Material	Standard Option	SAN transparent container
Rated Capacity	(10 hr, 1.80V/cell, 20°C)	420.0 AH/42.0A
	(5 hr, 1.75V/cell, 20°C)	373.0 AH/74.6A
	(3 hr, 1.75V/cell, 20°C)	323.7 AH/107.9A
	(1 hr, 1.75V/cell, 20°C)	239.8 AH/239.8A
Max Discharge Current	3360A (5s)	
Internal Resistance	Approx 0.58mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 55°C Charge: 0 ~ 45°C Storage: -15 ~ 45°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%
Design Floating Life at 20°C	20 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



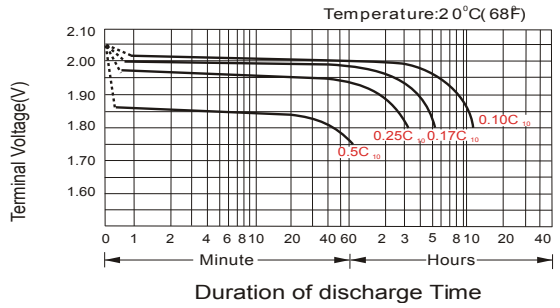
Constant Current Discharge (Amperes) at 20°C

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	318.4	276.6	239.8	189.0	156.2	116.8	93.9	79.4	68.7	54.4	44.9	24.4
1.65V/cell	299.0	266.0	231.8	184.2	152.7	114.8	92.5	78.3	67.8	53.7	44.4	24.1
1.70V/cell	283.9	250.9	223.0	178.4	149.1	111.4	90.4	76.6	66.5	52.8	43.7	23.8
1.75V/cell	266.3	239.1	211.7	170.0	142.8	107.9	87.7	74.6	64.9	51.9	42.9	23.4
1.80V/cell	236.9	215.6	194.9	159.3	134.2	102.5	83.9	71.5	62.5	50.5	42.0	23.0
1.85V/cell	189.0	178.6	166.7	141.7	121.8	93.8	77.7	67.0	58.9	48.0	40.2	22.1

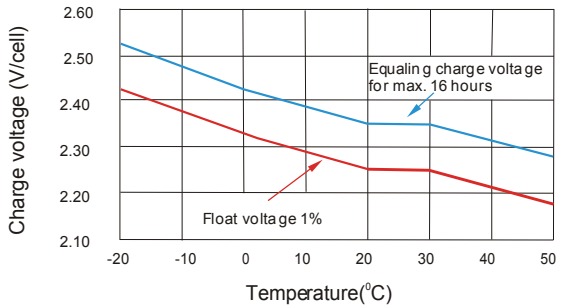
Constant Power Discharge (Watts) at 20°C

F.V/Time	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	543.4	484.1	425.8	339.8	284.1	213.8	173.4	147.7	128.7	102.2	84.8	46.2
1.65V/cell	521.6	471.0	415.0	332.9	279.0	211.3	171.8	146.4	127.5	101.5	84.2	46.0
1.70V/cell	502.0	448.9	402.3	324.4	273.7	206.1	168.4	143.8	125.5	100.1	83.1	45.5
1.75V/cell	478.7	432.4	385.4	311.3	264.0	200.9	164.2	140.7	122.9	98.8	82.1	44.9
1.80V/cell	431.6	395.8	359.4	295.2	250.3	192.2	158.1	135.5	119.1	96.6	80.8	44.3
1.85V/cell	350.2	332.7	312.0	266.1	229.7	177.8	147.8	128.1	113.1	92.5	77.9	43.0

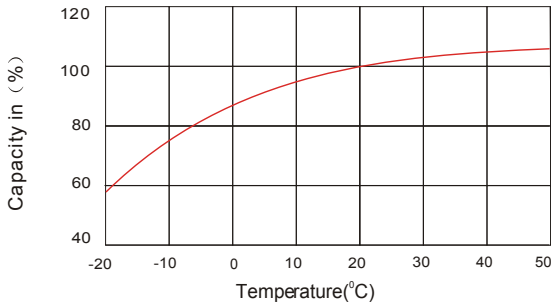
Discharge Characteristics



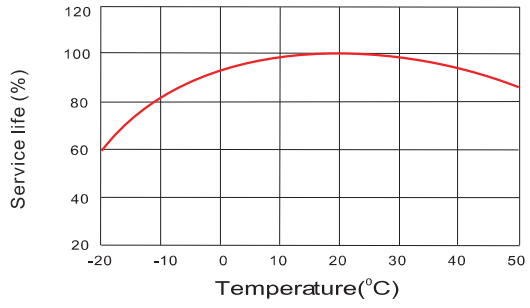
Charge voltage Vs ambient temperature curve



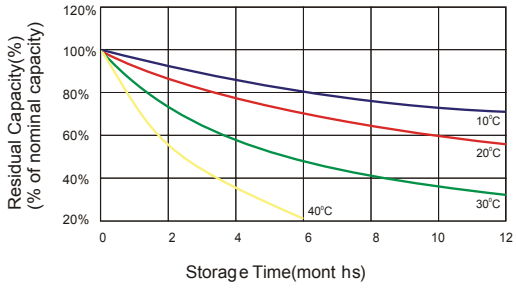
Discharge capacity Vs Ambient temperature curve (I10A)



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 volatge 2.25V/cell. 2.Charged for above 20hours at current 0.1C A and constant volatge 2.45V/cell. 3.Charged for 8~10hours at limted current 0.05CA .

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