

CZV500-2

2V 500AH
OPzV



CZV500-2



Physical Specification

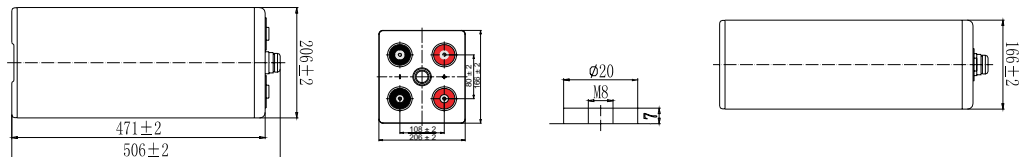
Part Number	CZV500-2
Length	206 ± 2 mm
Width	166 ± 2 mm
Container Height	471 ± 2 mm
Total Height (with terminal)	506 ± 2 mm
Approx Weight	35.5 kg

Specifications

	Nominal Voltage	2V
	Nominal Capacity (10HR)	500AH
Terminal Type	Standard Terminal	T11
Container Material	Standard Option	ABS
Rated Capacity	100 hr (1.80V/cell, 20°C)	602.7AH/6.027A
	10 hr (1.80V/cell, 20°C)	500 Ah/50.0A
	3 hr (1.75V/cell, 20°C)	390 AH/126A
	1 hr (1.60V/cell, 20°C)	268 AH/268A
Max Discharge Current	2000A(5 sec.)	
Internal Resistance	Approx 0.55mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C Charge: -10 ~ 50°C Storage: -20 ~ 50°C
	Nominal Operating Temp. Range	25 ± 3°C
	Cycle Use	2.30 to 2.35V Temp Coefficient -5mV/°C
	Standby Use	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	3% to 2% of capacity declines per month @20°C. Canbat CZV 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

T11 Terminal



Constant Current Discharge (Amperes) at 20°C

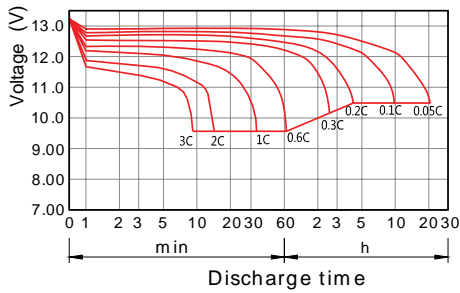
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	100h	120h
1.60V	425	285	173	133	107	91.3	78.5	61.7	50.9	27.0	23.2	12.3	8.42	6.17	5.25
1.65V	417	281	172	132	106	90.8	78.1	61.3	50.8	26.9	23.2	12.3	8.39	6.15	5.24
1.70V	404	274	170	131	106	90.1	77.5	60.9	50.7	26.8	23.0	12.3	8.36	6.13	5.22
1.75V	394	268	167	130	105	89.5	77.0	60.5	50.4	26.7	23.0	12.2	8.31	6.09	5.19
1.80V	380	260	163	126	102	86.8	74.7	58.7	50.0	26.5	22.9	12.1	8.3	6.05	5.15

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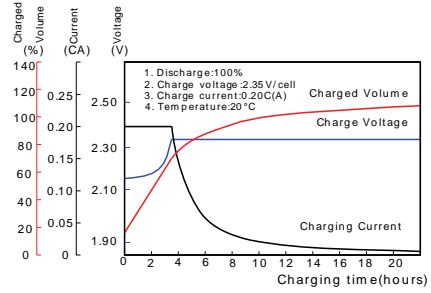
Constant Power Discharge (Watts) at 20°C

F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	100h	120h
1.60V	795	542	333	260	210	180	155	122	101	54.0	46.7	24.9	17.2	12.7	10.8
1.65V	779	533	331	258	209	179	154	121	101	53.8	46.6	24.9	17.1	12.6	10.7
1.70V	755	520	328	257	207	178	153	121	101	53.7	46.3	24.8	17.0	12.6	10.7
1.75V	737	510	323	255	206	176	152	120	100	53.4	46.2	24.6	16.9	12.5	10.6
1.80V	710	494	315	247	200	171	147	116	99.5	53.0	46.0	24.4	16.8	12.4	10.6

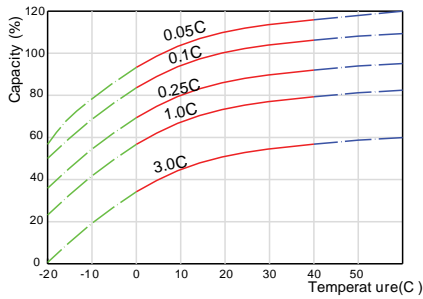
Discharge Characteristics



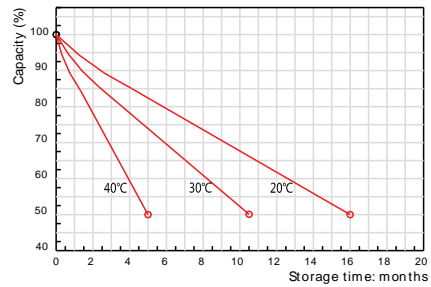
Charging Characteristics



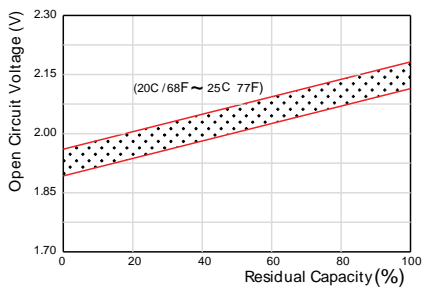
Temperature Effects in Relation to Battery Capacity



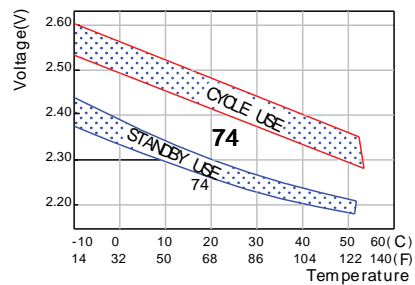
Self-discharge Characteristics



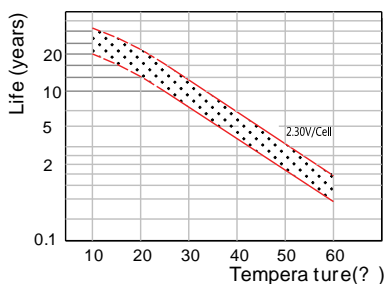
The Relationship for Open Circuit Voltage and Residual Capacity



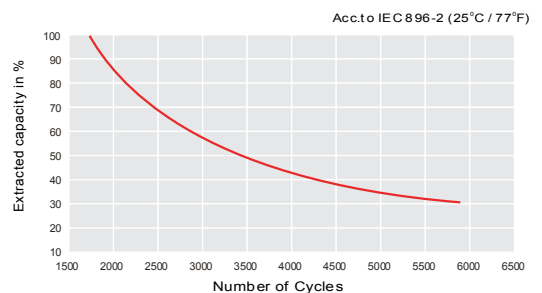
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D



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