

CZV150-12

12V 150AH

OPzV



Physical Specification	
Part Number	CZV150-12
Length	532 ± 2 mm
Width	207 ± 2 mm
Container Height	214 ± 2 mm
Total Height (with terminal)	220 ± 2 mm
Approx Weight	54.0 kg

Specifications		
	Nominal Voltage	12V
	Nominal Capacity (10HR)	150AH
Terminal Type	Standard Terminal	T11
Container Material	Standard Option	ABS
	(10hr, 15.1A, 1.80V/cell)	150AH
	(5hr, 25.8A, 1.75V/cell)	129AH
	(3hr, 37.1A, 1.75V/cell)	111.3AH
Max Discharge Current	1120A (5 sec)	
Internal Resistance	Approx 5.1mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -20 C~55 C (-4 F~131 F) Charge: - 0 C~40 C (32 F~104 F) Storage: -20 C~50 C (-4 F~122 F)
	Nominal Operating Temp. Range	25 C±3 C (77 F±5 F)
	Cycle Use (25°C)	13.80 ~ 14.10V Temp Coefficient -25mV/°C
	Standby Use	13.50V ~ 13.80V at 25°C Temp. Coefficient -18mV/°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

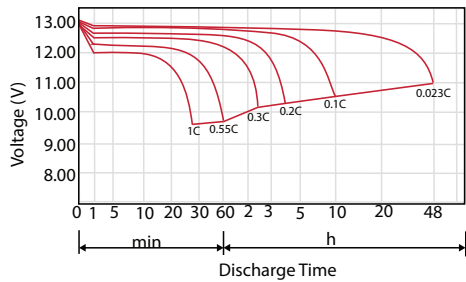
T11 Terminal

Constant Current Discharge (Amperes) at 25 °C (77° F)									
F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	135.1	119.2	89	68.4	43.4	33.1	23.6	17.1	14.5
1.80V/cell	162.5	137.7	100.0	75.0	46.9	35.4	24.9	17.8	15.1
1.75V/cell	186.4	153.8	107.5	79.8	49.2	37.1	25.8	18.2	15.4
1.70V/cell	203.5	167.0	120.9	86.8	52.5	39.6	27.2	18.6	15.5
1.67V/cell	222.5	179.2	126.4	89.6	54.3	40.9	27.9	18.9	15.9
1.60V/cell	237.5	189.5	131.1	92.1	56.1	41.9	28.4	19.2	16.2

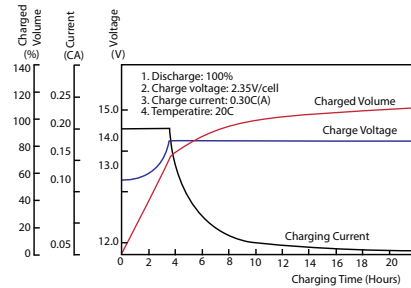
Constant Power Discharge (Watts/cell) at 25 °C (77 °F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	222.3	204.4	170.0	133.0	84.6	64.7	46.6	33.9	28.8
1.80V/cell	268.8	243.6	190.8	145.2	91.2	69.1	48.8	35.4	30.1
1.75V/cell	312.5	268.8	203.4	153.7	95.6	72.3	50.6	36.3	30.7
1.70V/cell	344.4	289.5	226.5	166.3	101.3	76.8	53.2	36.9	31.0
1.67V/cell	362.9	301.3	234.6	170.9	104.2	79.3	54.3	37.4	31.4
1.60V/cell	372.4	307.4	241.0	175.1	107.2	80.6	55.3	37.9	31.8

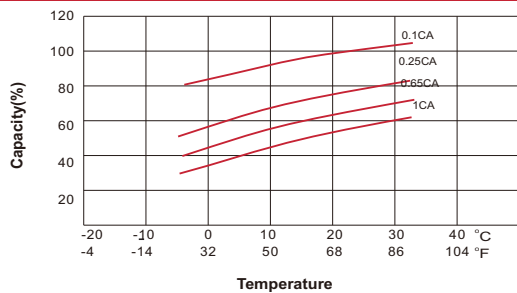
Discharge Characteristics



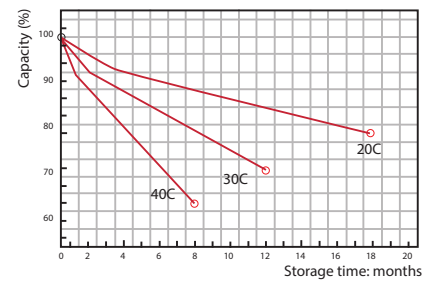
Charging Characteristics



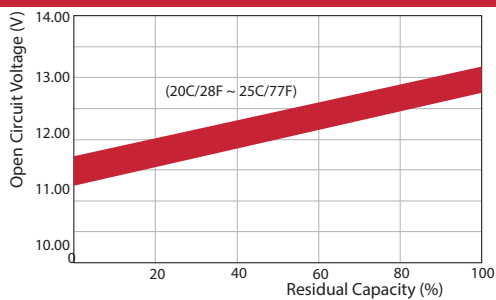
Temperature Effects in Relation to Battery Capacity



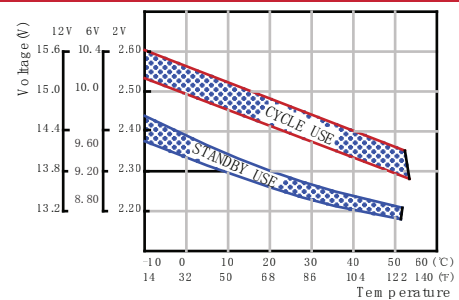
Self-discharge Characteristics



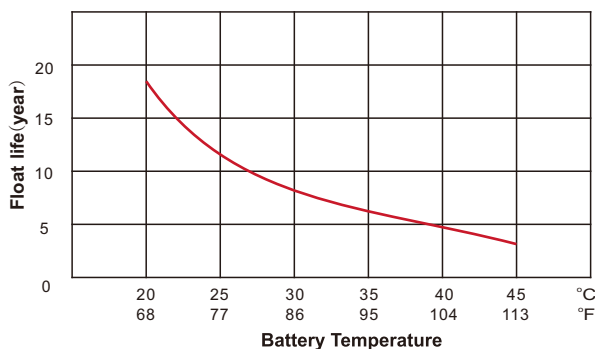
The Relationship for Open Circuit Voltage and Residual Capacity



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D

