

## OPZV2-200

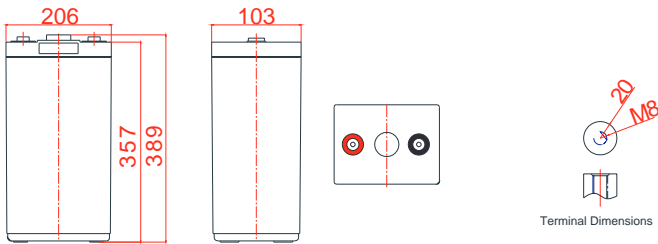


### General Features

- > Nanosilica colloidal electrolyte and tubular plate design to enhance battery performance
- > Tubular plate design makes long battery life
- > Relatively rich electrolyte, high temperature and low temperature performance is superior
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability
- > Precision sealing technology



Dimension: 103(L)x206(W) x357(H) x389(TH) Unit: mm



### Applications

- > Solar / wind energy and other new energy storage
- > Power systems
- > Telecommunications system
- > UPS/EPS
- > Auto control system
- > Other general purpose

### Specification

Nominal Voltage	2V		
Nominal Capacity	200Ah		
Design life	20 years		
Terminal	M8		
Approx. Weight	Approx 20.0kg (44.1lbs)		
Container Material	ABS		
Rated Capacity	200Ah	10Hour Rate	(20.0A to 1.80V)
	151Ah	3Hour Rate	(50.4A to 1.80V)
	111Ah	1Hour Rate	(111A to 1.75V)
Internal resistance	Full charged at 25°C: 0.94 m		
Max. Discharge Current	1600A(5S)		
Operating Temperature	Discharge:	-40 ~60 (-40~ 140°F)	
	Charge:	-20 ~50 (-4~ 122°F)	
	Storage:	-20 ~50 (-4~ 122°F)	
Charge current:	Max.40A Recom.20A		
Charge Method (25 °C)	Float Charge: 2.23-2.27V, recom.2.25V(-3mV/ °C)		
	Equalize charge:2.30-2.35V, recom.2.35V(-4mV/ °C)		
	Cycle charge:2.40-2.50V, recom.2.40V(-5mV/ °C)		
Self discharge	3% of capacity declined per month at 25°C		

### Constant Current Discharge Characteristics Unit: A ( 25 , 77 )

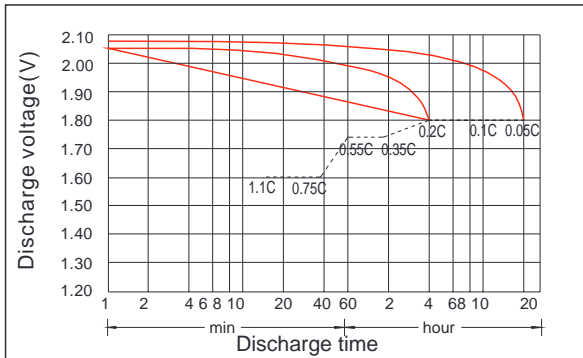
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	219	175	121	74.7	53.6	36.8	25.9	21.2	11.4
1.65V	208	167	119	73.3	52.9	36.3	25.5	21.1	11.3
1.70V	198	156	115	71.5	52.1	35.6	25.1	20.7	11.1
1.75V	187	146	111	69.6	51.3	34.8	24.8	20.4	10.9
1.80V	168	134	104	67.3	50.4	33.9	24.3	20.0	10.7
1.85V	142	119	97.3	64.7	48.4	32.7	23.6	19.6	10.4

### Constant Power Discharge Characteristics Unit: W ( 25 , 77 )

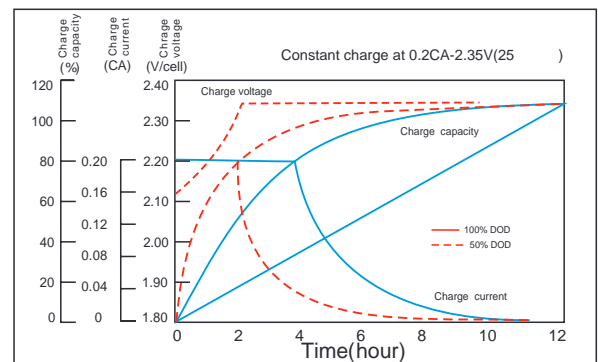
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	437	347	235	147	113	75.5	54.0	44.8	24.0
1.65V	416	330	223	145	110	74.4	53.1	42.9	23.5
1.70V	398	316	217	142	107	72.8	52.0	42.8	22.9
1.75V	377	302	209	138	104	70.9	50.8	42.0	22.4
1.80V	358	291	210	134	101	68.8	49.5	40.9	21.9
1.85V	328	275	192	127	96.1	65.5	47.6	39.7	21.2

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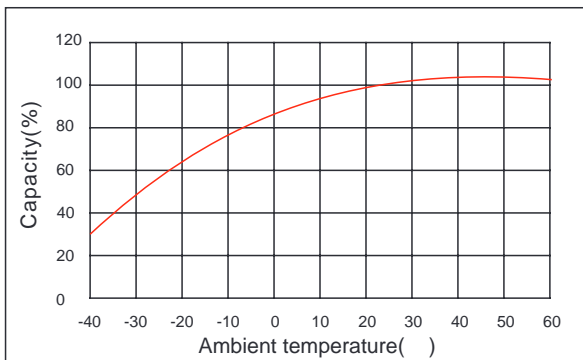
Discharge characteristic



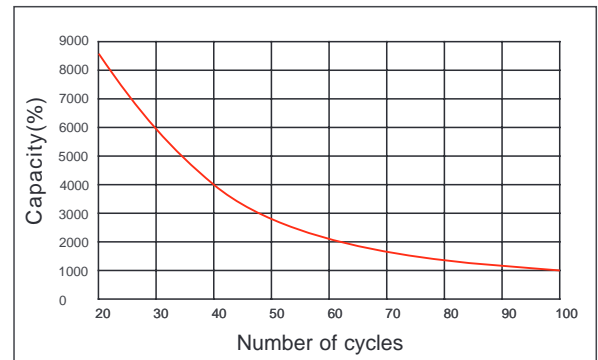
Charging characteristic



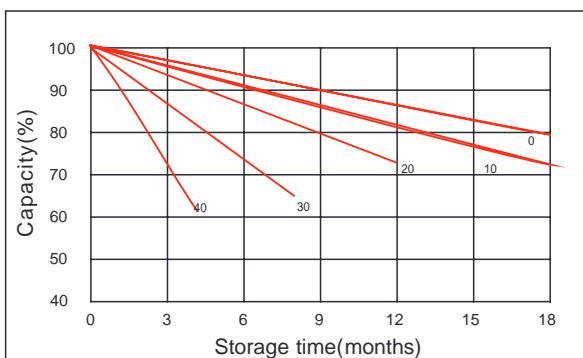
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

