

## OPzV2-1000

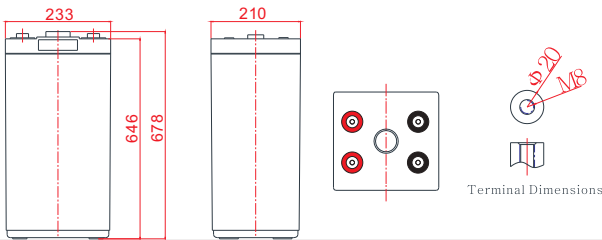


### General Features

- > 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: 210(L)×233(W)×646(H)×678(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	1000Ah		
Design life	20 years		
Terminal	M8		
Approx. Weight	Approx 77.5kg (171lbs)		
Container Material	ABS		
Rated Capacity	1000Ah	10Hour Rate	(100A to 1.80V)
	756Ah	3Hour Rate	(252A to 1.80V)
	555Ah	1Hour Rate	(555A to 1.75V)
Internal resistance	Full charged at 25°C: 0.38 mΩ		
Max. Discharge Current	5000A(5S)		
Operating Temperature	Discharge: -20 ~50°C(-4~ 122°F)		
	Charge: -20 ~50°C(-4~ 122°F)		
	Storage: -20 ~50°C(-4~ 122°F)		
Charge current:	Max. 200.0A ; Recom.100.0A		
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°C, 77°F)

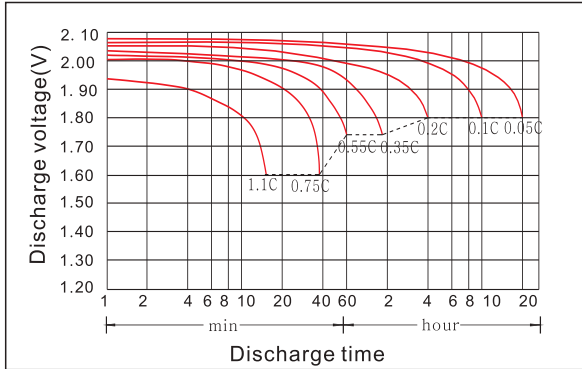
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	1095	875	605	374	268	184	130	106	57.0
1.65V	1040	835	595	367	265	182	128	106	56.5
1.70V	990	780	575	358	261	178	126	104	55.5
1.75V	935	730	555	348	257	174	124	102	54.5
1.80V	840	670	520	337	252	170	122	100	53.5
1.85V	710	595	487	324	242	164	118	98.0	52.0

### Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

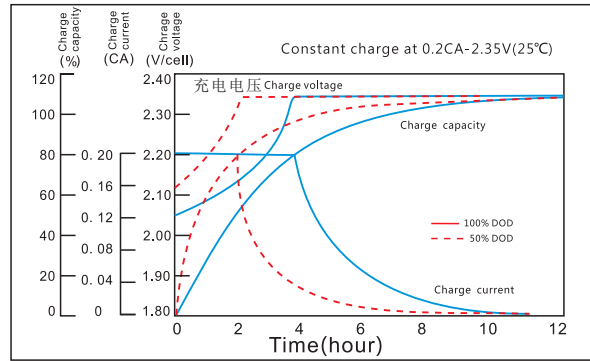
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	2185	1735	1175	735	565	378	270	224	120
1.65V	2080	1650	1115	725	550	372	266	215	118
1.70V	1990	1580	1085	710	535	364	260	214	115
1.75V	1885	1510	1045	690	520	355	254	210	112
1.80V	1790	1455	1050	670	505	344	248	205	110
1.85V	1640	1375	960	635	481	328	238	199	106

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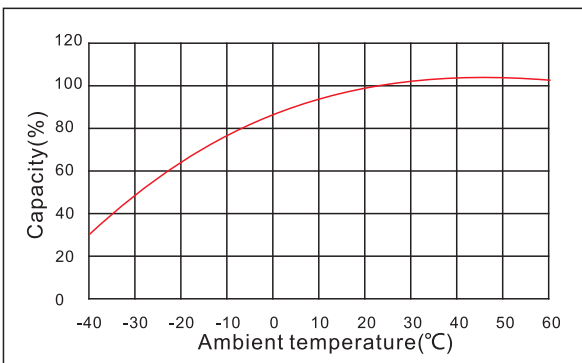
### Discharge characteristic



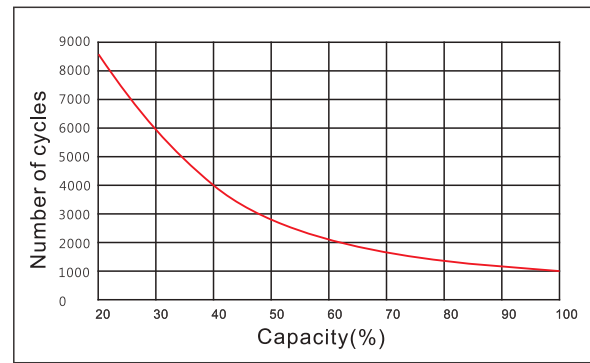
### Charging characteristic



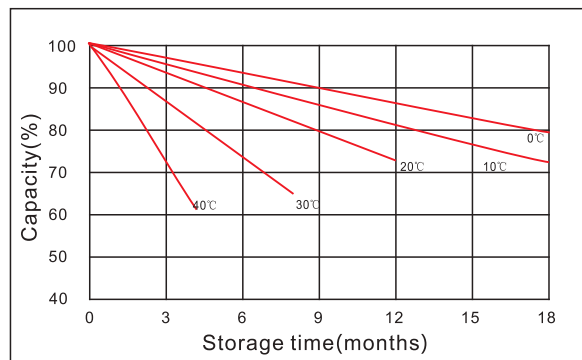
### The effect of temperature on capacity



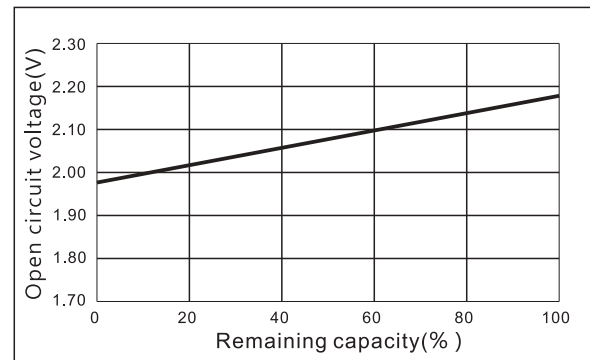
### The effect of discharge depth on cycle life



### Curves of self-discharge



### Curves of open circuit voltage vs. capacity



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