

## OPzS2-2000

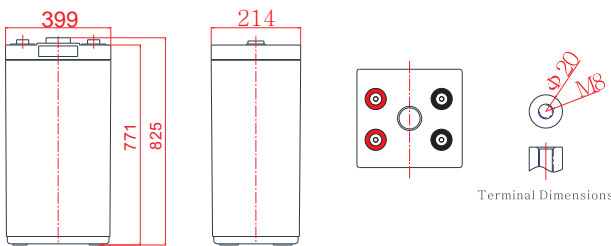


### General Features

- > 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: 399(L) x 214(W) x 771(H) x 825(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	2000Ah	
Design life	20 years	
Terminal	M8, Ø=20	
Approx. Weight	Approx 145kg (319.7lbs) Dry cell 104Kg	
Container Material	SAN transparent container	
Rated Capacity	2006Ah	10Hour Rate (200.6A to 1.80V)
	1710Ah	5Hour Rate (342.0A to 1.75V)
	1154Ah	1Hour Rate (1154A to 1.60V)
Internal resistance	Full charged at 25°C: 0.14 mΩ	
Max. Discharge Current	12800A(5S)	
Operating Temperature	Discharge: -20 ~55°C(-4 ~ 131°F)	
	Charge: -10 ~45°C(14 ~ 113°F)	
	Storage: -15 ~45°C(5 ~ 113°F)	
Charge current:	Max.160A ; Recom.80A	
Charge Method (25 °C)	Float Charge:2.23-2.25V,recom.2.25V(-3mV/ °C)	
	Equalize charge:2.30-2.40V,recom.2.35V(-4mV/ °C)	
	Cycle charge:2.35-2.45V,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)

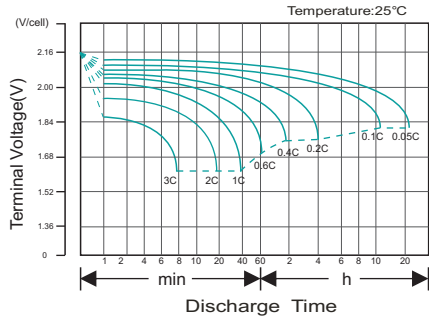
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	1685	1154	719	518	413	356	315	255.0	212.2	94.40	52.20
1.65V	1629	1127	705	511	409	352	311	253.2	211.0	94.40	51.80
1.70V	1561	1094	688	503	404	347	306	250.2	210.0	93.40	51.40
1.75V	1503	1061	670	491	396	342	300	245.6	207.0	91.80	50.80
1.80V	1375	1010	645	481	388	334	292	239.4	200.6	89.60	49.80
1.85V	1220	938	610	466	376	323	282	232.6	198.0	86.80	47.40
1.95V	987	750	532	415	350	301	261	211.0	178.0	79.60	44.40

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

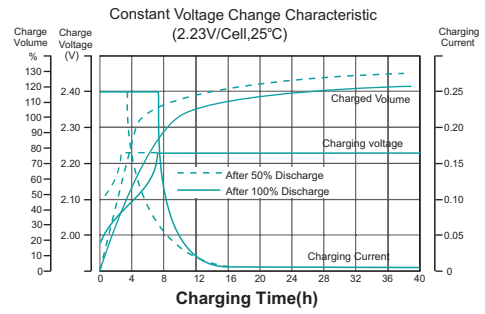
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	3072	2126	1328	960	766	660	584	474.2	394.4	176.20	99.00
1.65V	2998	2080	1300	946	758	654	576	470.6	392.8	175.80	98.60
1.70V	2880	2020	1272	934	750	644	568	464.4	390.6	173.80	97.80
1.75V	2780	1972	1246	914	738	636	560	458.2	387.0	172.40	97.40
1.80V	2566	1902	1216	908	734	632	554	454.6	378.4	170.20	96.40
1.85V	2320	1780	1164	890	720	620	542	446.4	380.2	168.20	93.60
1.95V	1946	1480	1052	822	694	596	518	418.8	354.6	160.60	91.00

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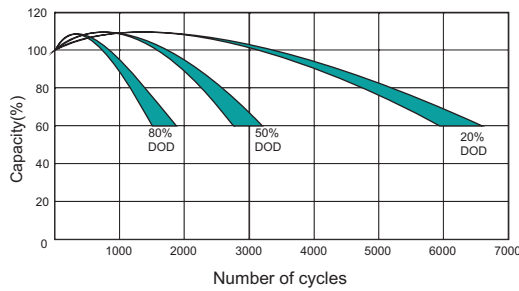
## Discharge Characteristics Curve



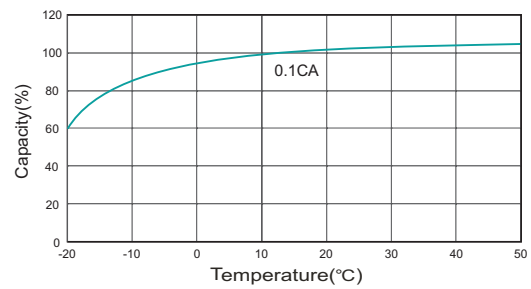
## Charging Characteristics Curve



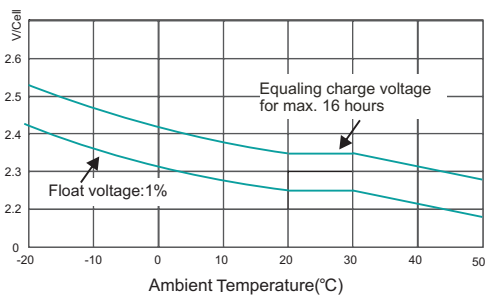
## Cycle life in relation to depth of Discharge



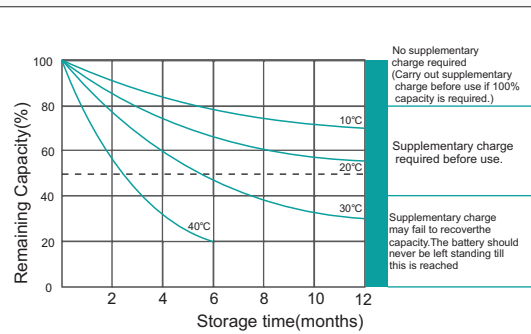
## Temperature effects on Capacity



## Relationship between charging voltage and temperature



## Self-discharge Characteristics



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