

## OPzS2-1000

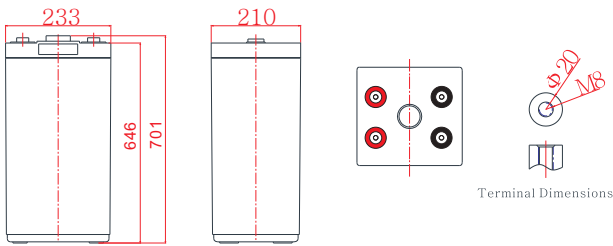


### General Features

- › 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: 233(L) x 210(W) x 646(H) x 701(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, Ø=20
Approx. Weight	Approx 73kg (160.9lbs) Dry cell 53Kg
Container Material	SAN transparent container
Rated Capacity	1056.0Ah 10Hour Rate (105.6A to 1.80V)
	902.0Ah 5Hour Rate (180.4A to 1.75V)
	605.9Ah 1Hour Rate (605.9A to 1.60V)
Internal resistance	Full charged at 25°C: 0.25 mΩ
Max. Discharge Current	8300A(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)

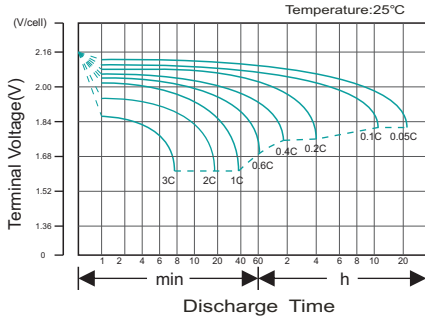
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	843	577	360	259	207	178	157	127.5	106.1	47.20	26.10
1.65V	815	563	353	255	205	176	155	126.6	105.5	47.20	25.90
1.70V	781	547	344	251	202	174	153	125.1	105.0	46.70	25.70
1.75V	751	530	335	246	198	171	150	122.8	103.5	45.90	25.40
1.80V	687	505	323	241	194	167	146	119.7	100.3	44.80	24.90
1.85V	610	469	305	233	188	162	141	116.3	99.0	43.40	23.70
1.95V	494	375	266	208	175	150	130	105.5	89.0	39.80	22.20

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

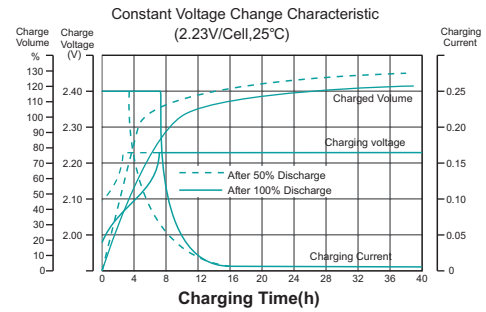
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	1536	1063	664	480	383	330	292	237.1	197.2	88.10	49.50
1.65V	1499	1040	650	473	379	327	288	235.3	196.4	87.90	49.30
1.70V	1440	1010	636	467	375	322	284	232.2	195.3	86.90	48.90
1.75V	1390	986	623	457	369	318	280	229.1	193.5	86.20	48.70
1.80V	1283	951	608	454	367	316	277	227.3	189.2	85.10	48.20
1.85V	1160	890	582	445	360	310	271	223.2	190.1	84.10	46.80
1.95V	973	740	526	411	347	298	259	209.4	177.3	80.30	45.50

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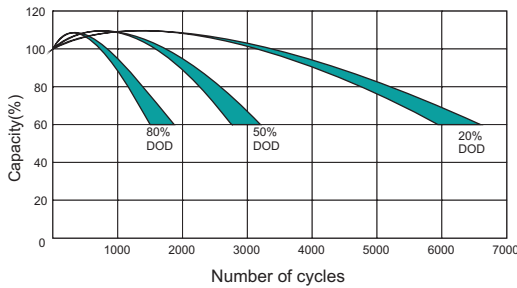
## Discharge Characteristics Curve



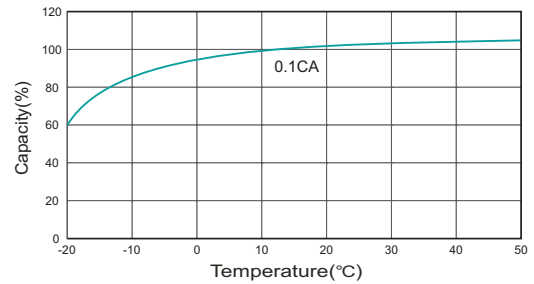
## Charging Characteristics Curve



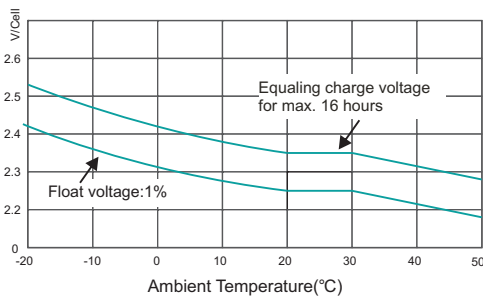
## Cycle life in relation to depth of Discharge



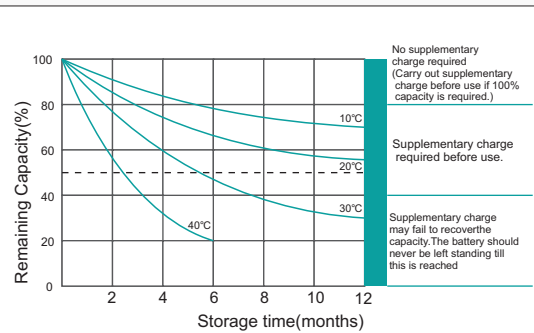
## Temperature effects on Capacity



## Relationship between charging voltage and temperature



## Self-discharge Characteristics



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