

## OPzS2-3000

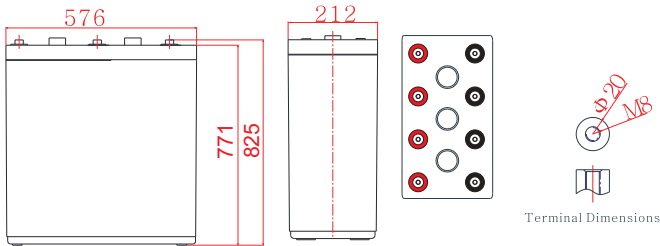


### General Features

- > 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: 576(L)×212(W)×771(H)×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	3000Ah
Design life	20 years
Terminal	M8,Ø=20
Approx. Weight	Approx 220kg (485lbs) Dry cell 152Kg
Container Material	SAN transparent container
Rated Capacity	<b>3009Ah</b> 10Hour Rate (300.9A to 1.80V)
	<b>2565Ah</b> 5Hour Rate (513A to 1.75V)
	<b>1731Ah</b> 1Hour Rate (1731A to 1.60V)
Internal resistance	Full charged at 25°C: 0.10 mΩ
Max. Discharge Current	19200A(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.600A ; Recom.300A
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)

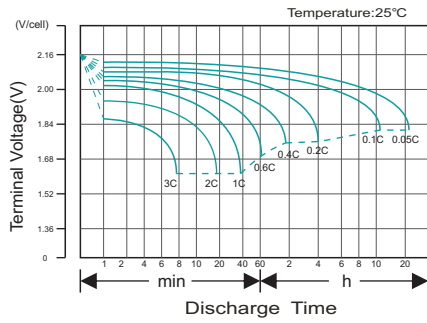
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	2528	1731	1079	778	620	534	472	382.5	318.3	141.60	78.30
1.65V	2444	1690	1058	766	614	529	466	379.8	316.5	141.60	77.70
1.70V	2342	1640	1032	754	605	521	459	375.3	315.0	140.10	77.10
1.75V	2254	1591	1006	737	593	513	450	368.4	310.5	137.70	76.20
1.80V	2062	1516	968	722	582	501	439	359.1	300.9	134.40	74.70
1.85V	1830	1408	915	698	564	485	424	348.9	297.0	130.20	71.10
1.95V	1481	1126	798	623	526	451	391	316.5	267.0	119.40	66.60

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

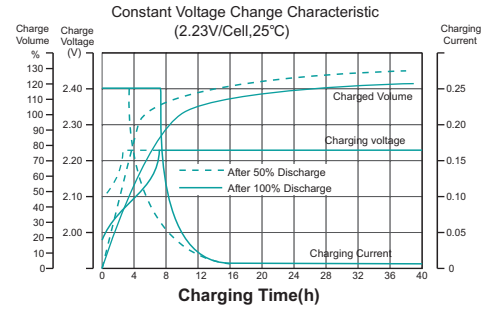
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	4608	3189	1992	1440	1149	990	876	711.3	591.6	264.30	148.50
1.65V	4497	3120	1950	1419	1137	981	864	705.9	589.2	263.70	147.90
1.70V	4320	3030	1908	1401	1125	966	852	696.6	585.9	260.70	146.70
1.75V	4170	2958	1869	1371	1107	954	840	687.3	580.5	258.60	146.10
1.80V	3849	2853	1824	1362	1101	948	831	681.9	567.6	255.30	144.60
1.85V	3480	2670	1746	1335	1080	930	813	669.6	570.3	252.30	140.40
1.95V	2919	2220	1578	1233	1041	894	777	628.2	531.9	240.90	136.50

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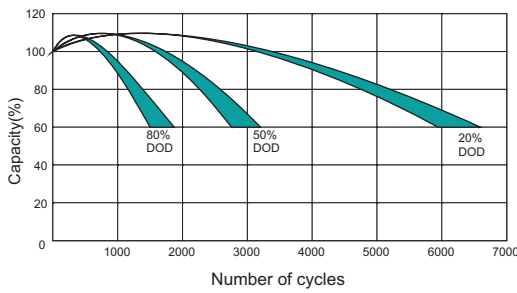
### Discharge Characteristics Curve



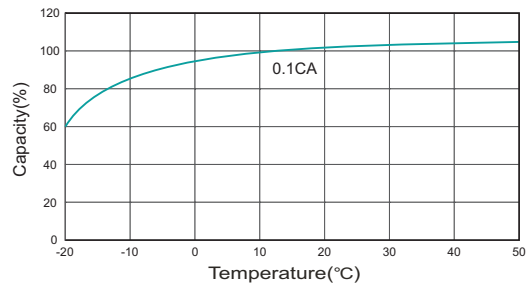
### Charging Characteristics Curve



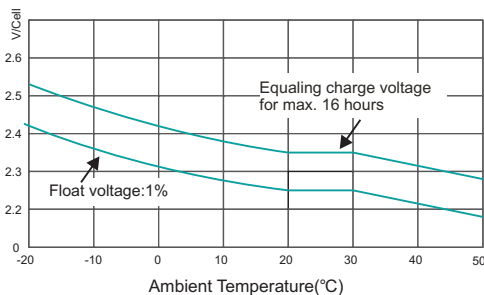
### Cycle life in relation to depth of Discharge



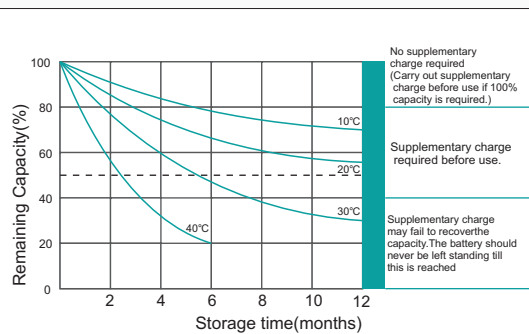
### Temperature effects on Capacity



### Relationship between charging voltage and temperature



### Self-discharge Characteristics



[www.kiju.com.cn](http://www.kiju.com.cn)    [info@kiju.com.cn](mailto:info@kiju.com.cn)

**Jiangxi Jingjiu Power Science & Technology Co. Ltd.**  
Add: 1388 Fushan No.1 Street, Xiaolan Economic Development Zone, Nanchang City, Jiangxi Province, China.

+86-791-85982779    +86-791-85989842

**Jiangxi Jingjiu Power (Jiujiang) Co. Ltd.**  
Add: Xiwang Rd, Aicheng Industrial Park, Yongxiu Country, Jiujiang City, Jiangxi Province, China.

