

## OPzS2-3000

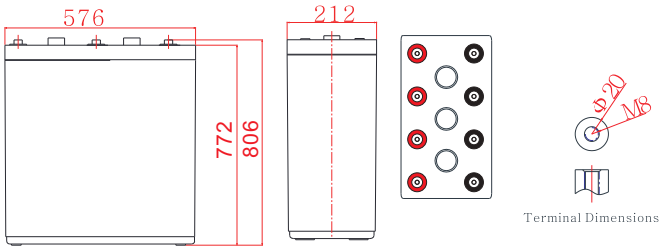


### General Features

- > 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)×772(H)×806(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   |                              |
| Approx. Weight         | Approx 230kg (508lbs) Dry cell 170Kg             |                              |
| Container Material     | ABS  |                              |
| Rated Capacity         | 3000Ah   | 10Hour Rate (30.0A to 1.80V) |
|                        | 2268Ah   | 3Hour Rate (756A to 1.80V)   |
|                        | 1666Ah   | 1Hour Rate (1666A to 1.75V)  |
| Internal resistance    | Full charged at 25°C: 0.10 mΩ                    |                              |
| Max. Discharge Current | 19200A(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.600A ; Recom.300A                            |                              |
| 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)

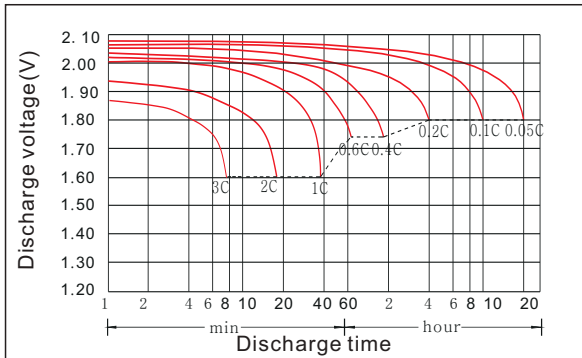
| F.V/Time | 15M  | 30M  | 1h   | 2h   | 3h  | 5h  | 8h  | 10h | 20h |
|----------|------|------|------|------|-----|-----|-----|-----|-----|
| 1.60V    | 3791 | 2654 | 1818 | 1133 | 820 | 562 | 403 | 337 | 197 |
| 1.65V    | 3656 | 2567 | 1775 | 1111 | 805 | 557 | 399 | 333 | 194 |
| 1.70V    | 3445 | 2460 | 1723 | 1055 | 793 | 548 | 397 | 331 | 191 |
| 1.75V    | 3267 | 2367 | 1672 | 1058 | 775 | 541 | 387 | 327 | 189 |
| 1.80V    | 2873 | 2167 | 1592 | 1017 | 756 | 526 | 378 | 317 | 186 |
| 1.85V    | 2427 | 1824 | 1479 | 964  | 734 | 511 | 368 | 314 | 180 |

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

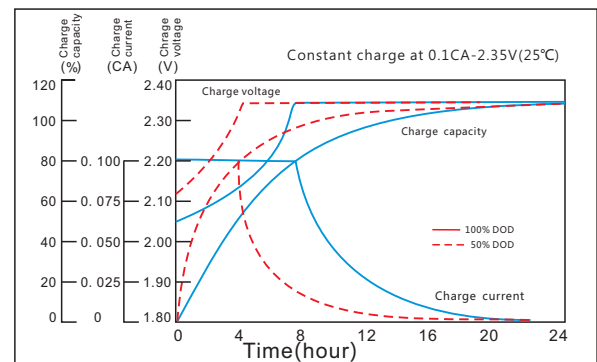
| F.V/Time | 15M  | 30M  | 1h   | 2h   | 3h   | 5h   | 8h  | 10h | 20h |
|----------|------|------|------|------|------|------|-----|-----|-----|
| 1.60V    | 7575 | 5373 | 4113 | 2271 | 1725 | 1164 | 844 | 714 | 373 |
| 1.65V    | 7216 | 5089 | 3827 | 2254 | 1748 | 1156 | 840 | 708 | 369 |
| 1.70V    | 6869 | 4857 | 3584 | 2223 | 1691 | 1140 | 828 | 699 | 366 |
| 1.75V    | 6514 | 4662 | 3372 | 2161 | 1650 | 1099 | 814 | 685 | 362 |
| 1.80V    | 6107 | 4476 | 3181 | 2085 | 1603 | 1049 | 776 | 651 | 359 |
| 1.85V    | 5709 | 4300 | 3131 | 2007 | 1524 | 1021 | 756 | 623 | 351 |

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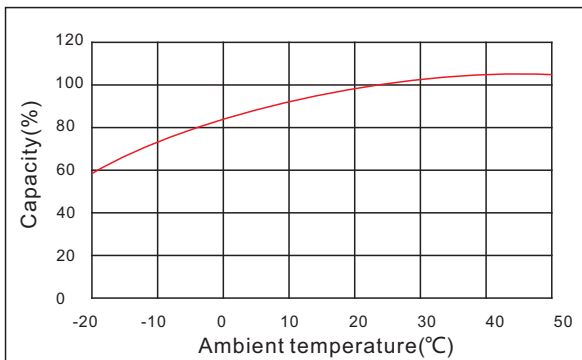
Discharge characteristic



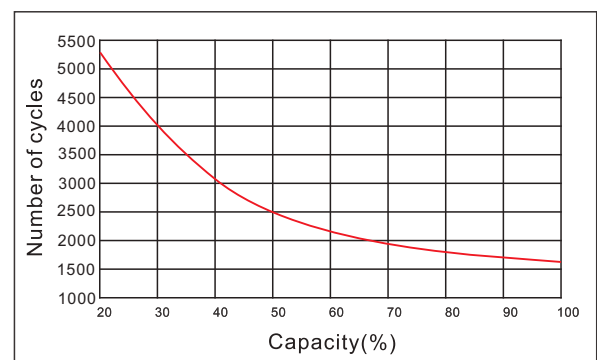
Charging characteristic



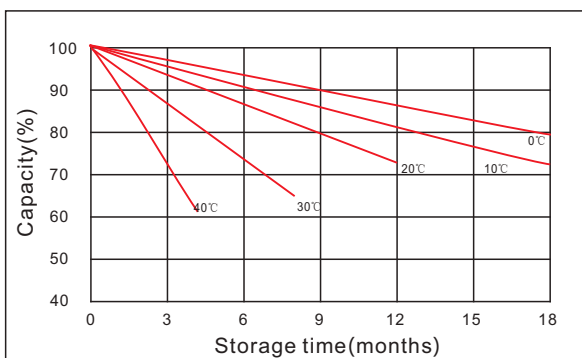
The effect of temperature on capacity



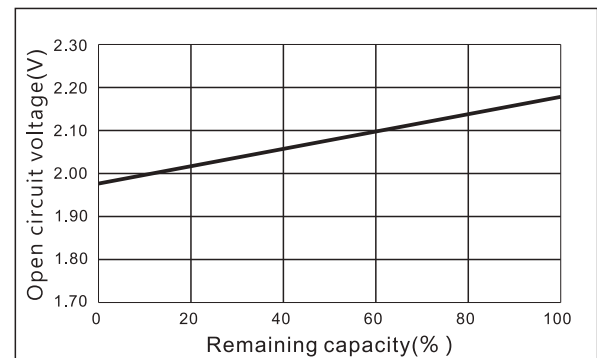
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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