

## OPzS Deep Cycle Tubular Flooded Battery 24OPzS3000

CSBattery OPzS series is flooded Lead Acid battery that adopts Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to standards and with DIN40736-2/IEC60896-11 positive spine and patent formula of die-casting active material. OPzS series exceeds standard values with more than 20 years floating design even more suitable for life at 25°C and is cyclic use(PV/solar, traction etc) under extreme operating conditions.

2V  
3000Ah

Flooded  
Technology

Tubular  
Plate



### Applications

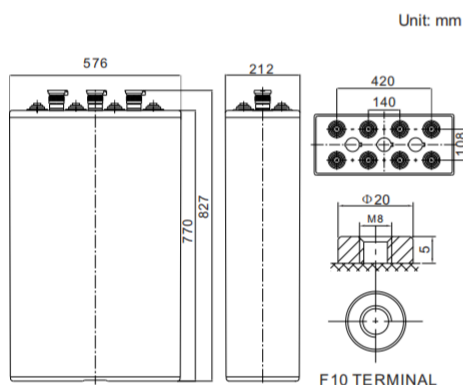
- Solar & Wind Power system
- Nuclear power station
- Telecom backup power supply
- energy saving requirements  
Emergency Power System

### General Features

- ✓ It can discharge at -40°C~70°C, Charge at 0-50°C
- ✓ Long life expectancy of 20+ years in floating condition
- ✓ Adopts quality silicon nano gel electrolyte
- ✓ Excellent deep discharge recovery capability
- ✓ Deep cycle performance: up to 3300

### Dimensions & Weight

### Technical Specifications



<b>Cells Per Unit</b>	1
<b>Voltage Per Unit</b>	2
<b>Nominal Capacity</b>	3000Ah@10hr-rate to 1.85V per cell @25°C
<b>Weight</b>	Without Electrolyte 166.7kg/With Electrolyte 226.8kg
<b>Internal Resistance</b>	Approx. 0.11 mΩ
<b>Terminal</b>	F10(M8)
<b>Max. Discharge Current</b>	10000A (5 sec)
<b>Design Life</b>	20 years (floating charge)
<b>Maximum Charging Current</b>	300.0 A
<b>Reference Capacity</b>	C24 3591.0AH C48 3957.5AH C72 3997.0AH C100 4250.6AH C120 4335.6AH C240 4408.2AH
<b>Float Charging Voltage</b>	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
<b>Cycle Use Voltage</b>	2.40 V~2.45 V @ 25°C Temperature Compensation: -4mV/°C/Cell
<b>Operating Temperature Range</b>	Discharge: -15°C~50°C Charge: 0°C~40°C Storage: -15°C~50°C
<b>Normal Operating Temperature Range</b>	25°C ± 5°C
<b>Self Discharge</b>	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3.5% at 25°C. Please charged batteries before using.
<b>Container Material</b>	A.B.S. UL94-HB, UL94-V0 Optional.

Length	576±1mm (22.7 inches)
Width	212±1mm (8.35 inches)
Height	770±1mm (30.3 inches)
Total Height	827±1mm (32.6 inches)
Torque Value	10~12 N*m

### Battery Discharge Table

#### Discharge Constant Current per Cell (Amperes at 25° C)

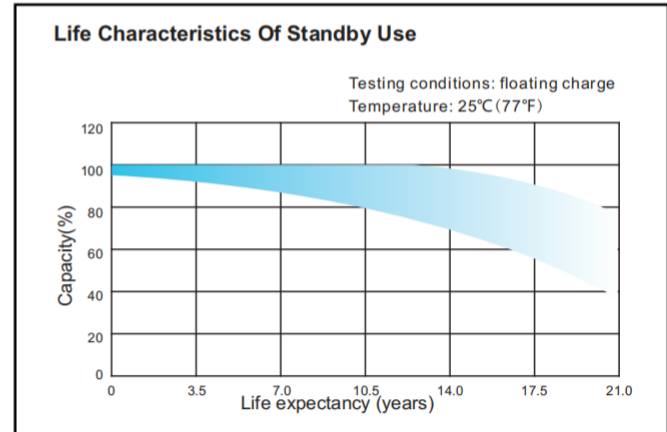
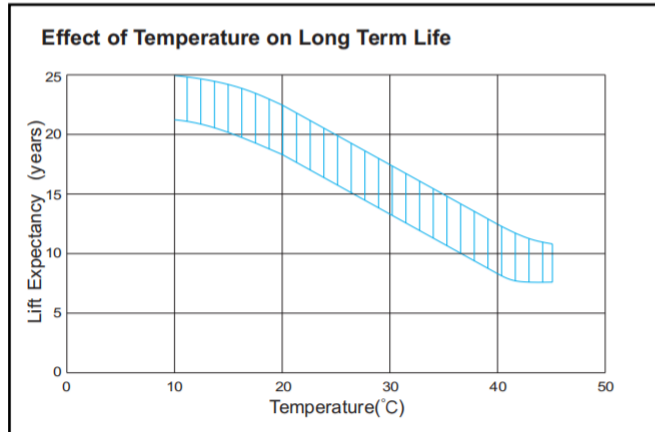
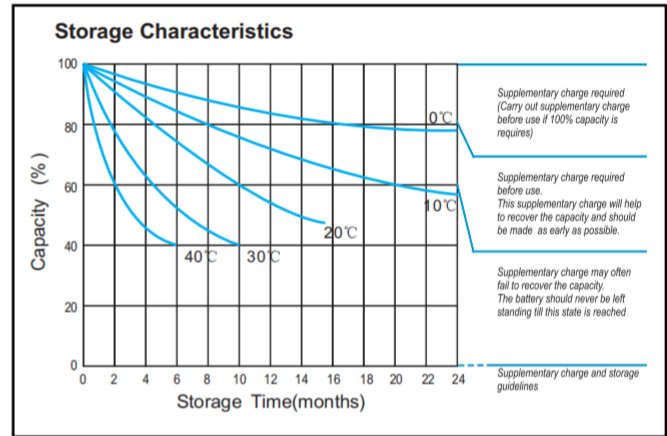
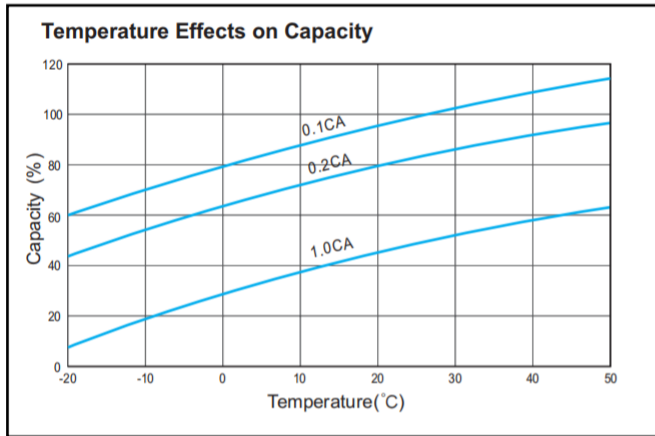
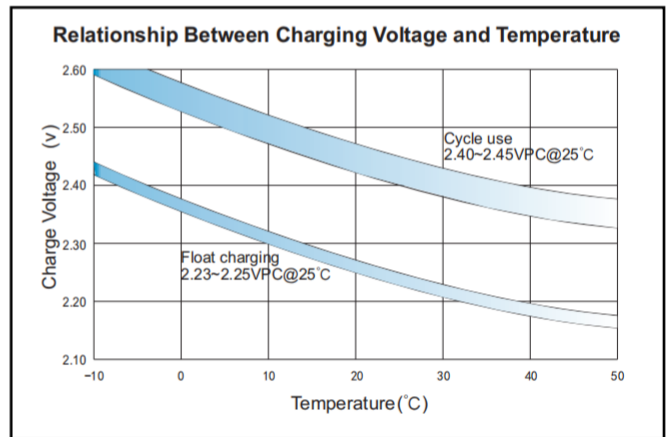
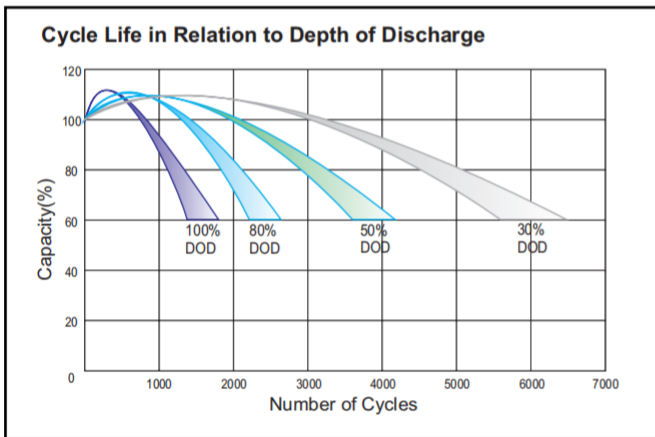
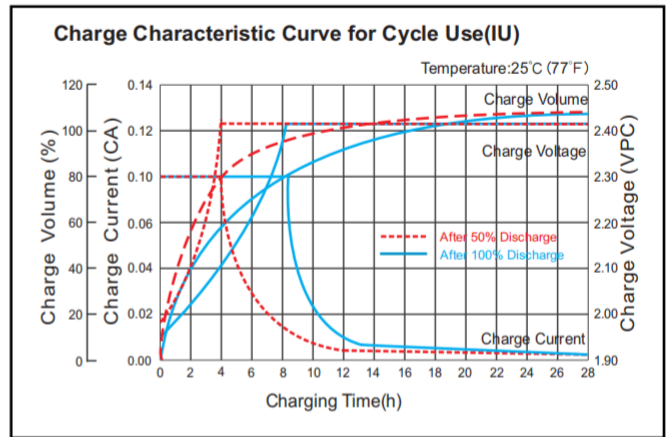
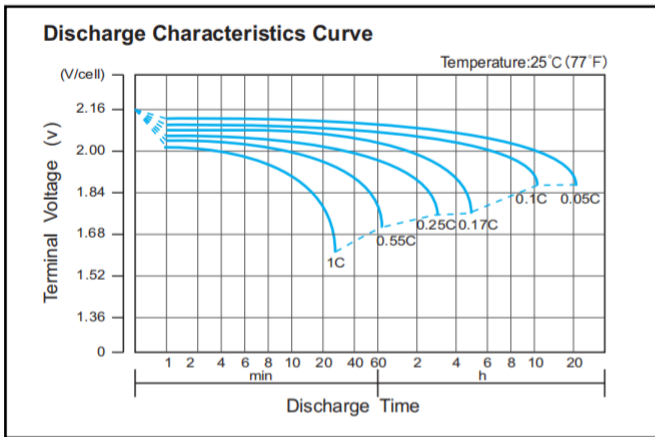
F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	1596	1265	892.2	680.1	538.7	478.8	419.0	326.9	280.4	161.2
1.87V	1784	1395	957.1	724.0	568.6	506.4	444.2	342.2	293.0	168.4
1.83V	2044	1557	1038	774.4	598.5	529.2	459.9	357.5	305.6	175.7
1.80V	2271	1687	1077	797.2	610.5	541.5	472.5	366.7	315.0	181.1
1.75V	2531	1807	1126	822.7	620.6	551.2	482.0	372.8	321.3	184.7
1.70V	2790	1866	1158	842.2	631.4	559.8	488.3	375.8	324.5	186.6
1.65V	2878	1982	1197	863.1	640.4	567.5	494.6	378.9	327.6	188.4
1.60V	3001	2051	1243	892.1	658.4	579.6	500.9	381.9	330.8	190.2

#### Discharge Constant Power per Cell (Watts at 25° C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	3055	2429	1725	1322	1054	941.1	828.5	653.9	571.4	328.5
1.87V	3362	2638	1829	1398	1111	993.4	875.7	681.4	595.8	342.6
1.83V	3766	2876	1947	1478	1165	1035	904.1	705.8	617.2	354.9
1.80V	4115	3068	2012	1517	1187	1057	926.1	721.1	632.5	363.7
1.75V	4464	3205	2077	1553	1203	1072	941.9	730.3	641.7	368.9
1.70V	4787	3238	2129	1585	1222	1087	951.3	736.4	647.8	372.4
1.65V	4868	3381	2188	1618	1238	1099	960.8	742.5	650.8	374.2
1.60V	4927	3486	2240	1658	1269	1119	967.1	745.5	653.9	375.9

## OPzS Deep Cycle Tubular Flooded Battery 240PzS3000

### Performance Characteristics



**Note:** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CSBattery** for the latest information.

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