

## OPzS Deep Cycle Tubular Flooded Battery

## 6OPzS300

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  
300Ah

Flooded  
Technology

Tubular  
Plate



### Applications

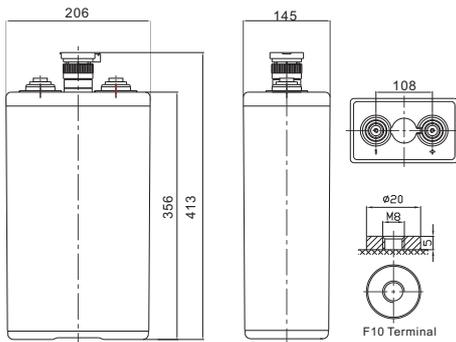
- Solar & Wind Power system
- Nuclear power station
- Telecom backup power supply
- energy saving requirements  
Emergency Power System

### 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



Length	145±1mm (5.71 inches)
Width	206±1mm (8.11 inches)
Height	356±1mm (14.0 inches)
Total Height	413±1mm (16.3 inches)
Torque Value	10~12 N*m

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	300Ah@10hr-rate to 1.85V per cell @25°C
Weight	Without Electrolyte 17.5 kg/With Electrolyte 23.5kg
Internal Resistance	Approx. 0.67 mΩ
Terminal	M8 / M10
Max. Discharge Current	1400A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	45.0 A
Reference Capacity	C24 359.1AH C48 404.0AH C72 424.2AH C100 433.9AH C120 442.6AH C240 450.0AH
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.40 V~2.45 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -15°C~50°C Charge: 0°C~40°C Storage: -15°C~50°C
Normal Operating Temperature Range	25°C ±5°C
Self Discharge	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.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

### Battery Discharge Table

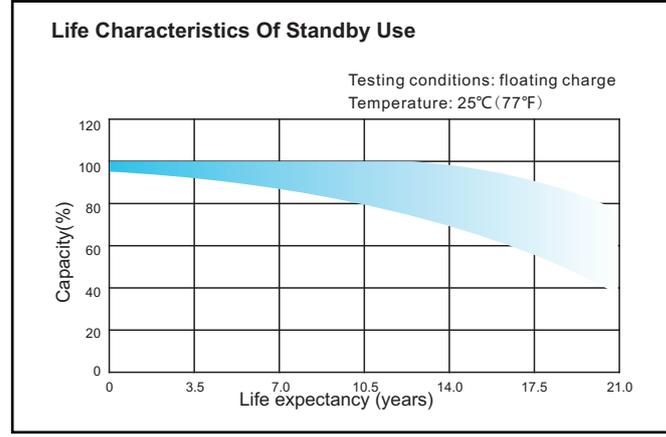
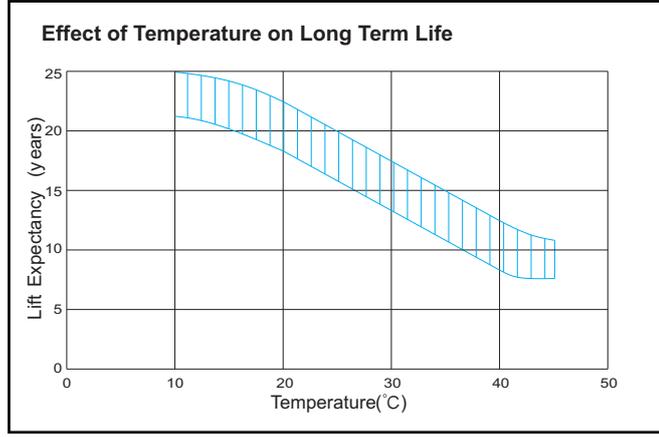
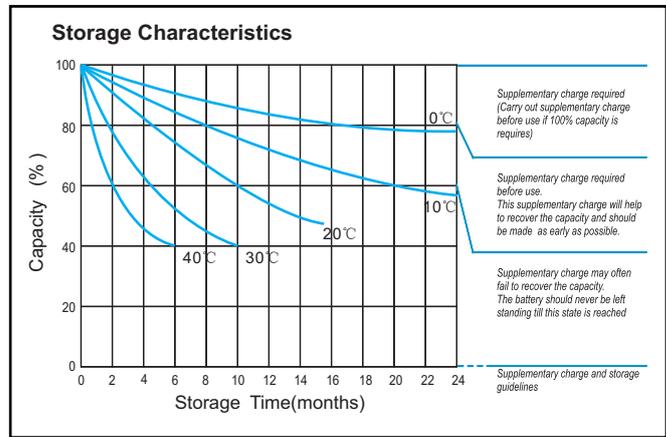
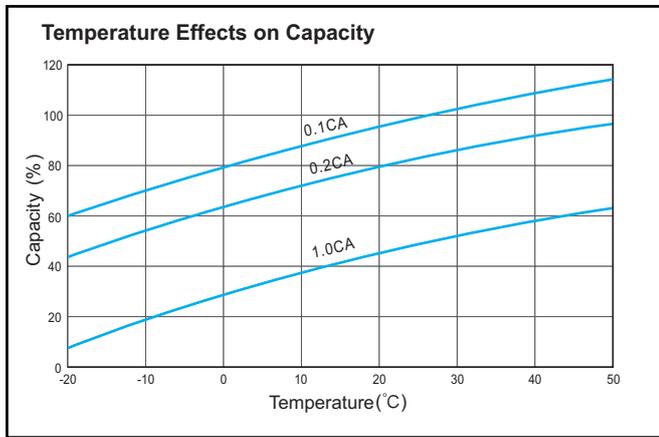
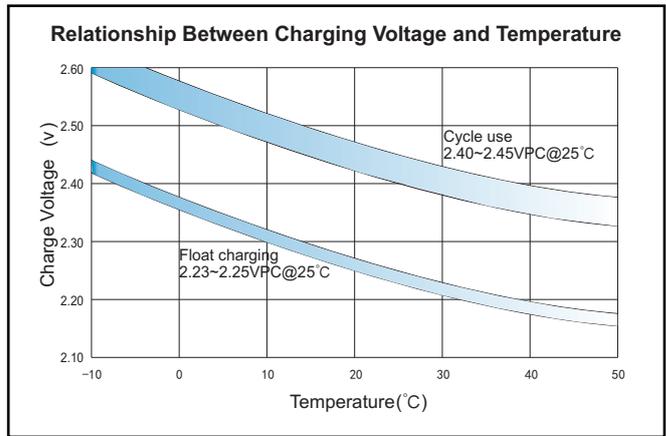
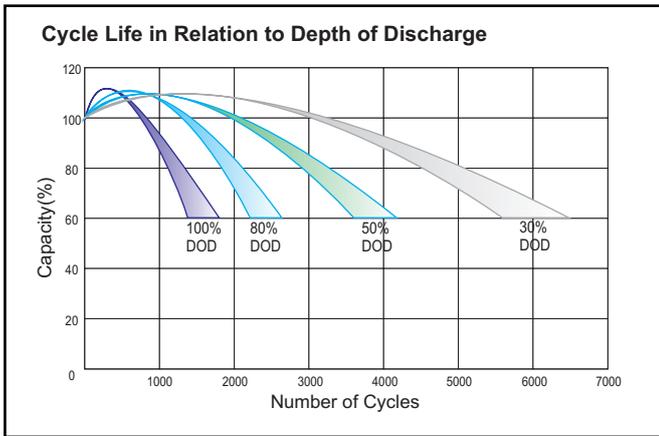
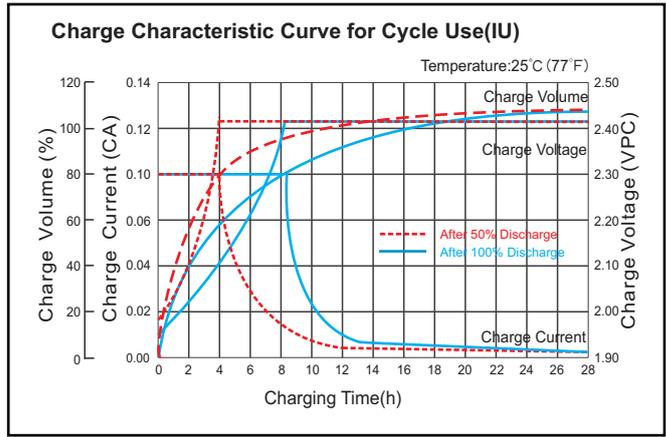
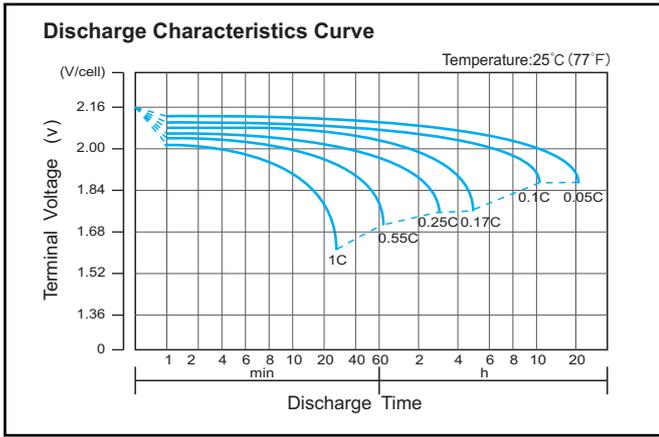
#### Discharge Constant Current per Cell (Amperes at 25° C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	159.6	126.5	89.22	68.01	53.87	47.88	41.90	32.69	28.04	16.12
1.87V	178.4	139.5	95.71	72.40	56.86	50.64	44.42	34.22	29.30	16.84
1.83V	204.4	155.7	103.8	77.44	59.85	52.92	45.99	35.75	30.56	17.57
1.80V	227.1	168.7	107.7	79.72	61.05	54.15	47.25	36.67	31.50	18.11
1.75V	253.1	180.7	112.6	82.27	62.06	55.12	48.20	37.28	32.13	18.47
1.70V	279.0	186.6	115.8	84.22	63.14	55.98	48.83	37.58	32.45	18.66
1.65V	287.8	198.2	119.7	86.31	64.04	56.75	49.46	37.89	32.76	18.84
1.60V	300.1	205.1	124.3	89.21	65.84	57.96	50.09	38.19	33.08	19.02

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

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	305.5	242.9	172.5	132.2	105.4	94.11	82.85	65.39	57.14	32.85
1.87V	336.2	263.8	182.9	139.8	111.1	99.34	87.57	68.14	59.58	34.26
1.83V	376.6	287.6	194.7	147.8	116.5	103.5	90.41	70.58	61.72	35.49
1.80V	411.5	306.8	201.2	151.7	118.7	105.7	92.61	72.11	63.25	36.37
1.75V	446.4	320.5	207.7	155.3	120.3	107.2	94.19	73.03	64.17	36.89
1.70V	478.7	323.8	212.9	158.5	122.2	108.7	95.13	73.64	64.78	37.24
1.65V	486.8	338.1	218.8	161.8	123.8	109.9	96.08	74.25	65.08	37.42
1.60V	492.7	348.6	224.0	165.8	126.9	111.9	96.71	74.55	65.39	37.59

### 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.

Add: Introduction Building, Xingdong industry Park, NO.61, Liuxian 2nd Road, Baoan, Shenzhen, China.

Tel: +86-755-27417959 Mob: +8613612867133 Email: info@csbattery.cn

Website: www.CSBattery.cn