

OPzS Deep Cycle Tubular Flooded Battery

50PzS350

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
350Ah

Flooded
Technology

Tubular
Plate



Applications

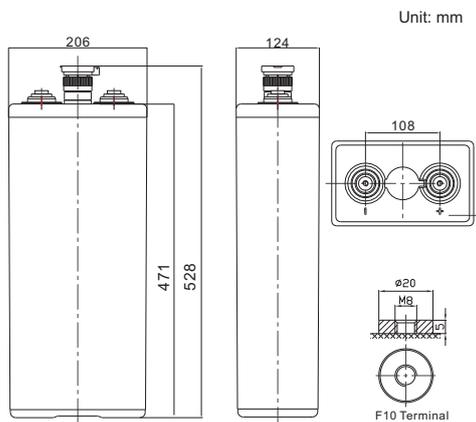
- Solar & Wind Power system
- Nuclear power station
- Telecom backup power supply
- energy saving requirements
Emergency Power System

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	124±1mm (4.88 inches)
Width	206±1mm (8.11 inches)
Height	471±1mm (18.5 inches)
Total Height	528±1mm (20.8 inches)
Torque Value	10~12 N*m

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	350Ah@10hr-rate to 1.85V per cell @25°C
Weight	Without Electrolyte 20 kg/With Electrolyte 27kg
Internal Resistance	Approx. 0.65 mΩ
Terminal	M8 / M10
Max. Discharge Current	1600A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	52.50 A
Reference Capacity	C24 419.0AH C48 437.5AH C72 455.0AH C100 472.5AH C120 490.0AH C240 507.5AH
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

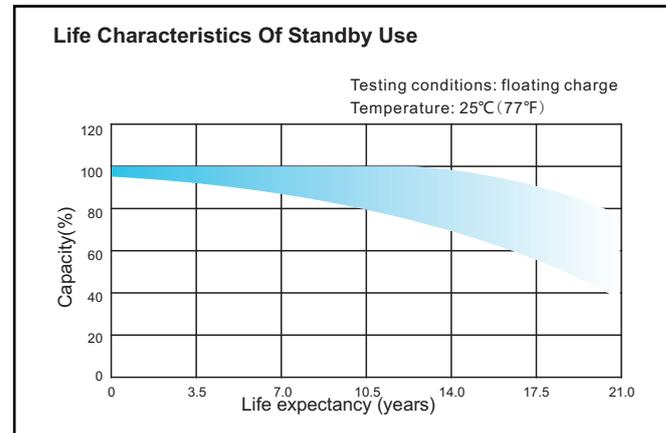
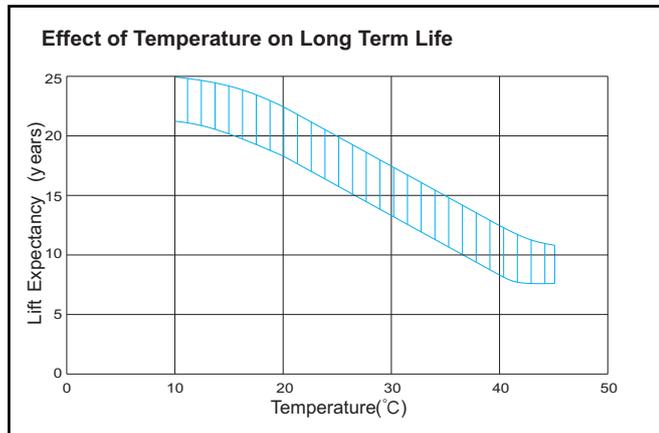
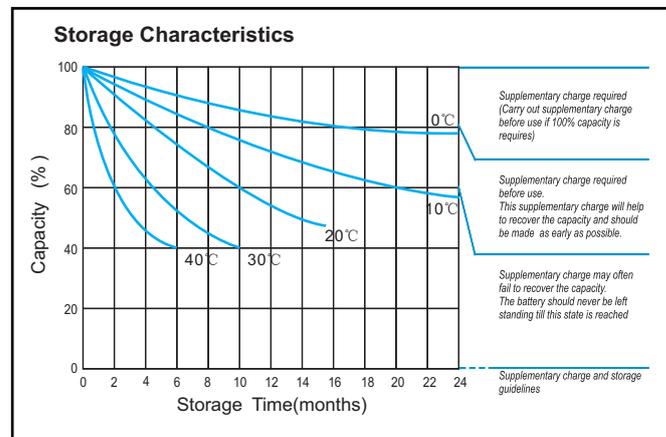
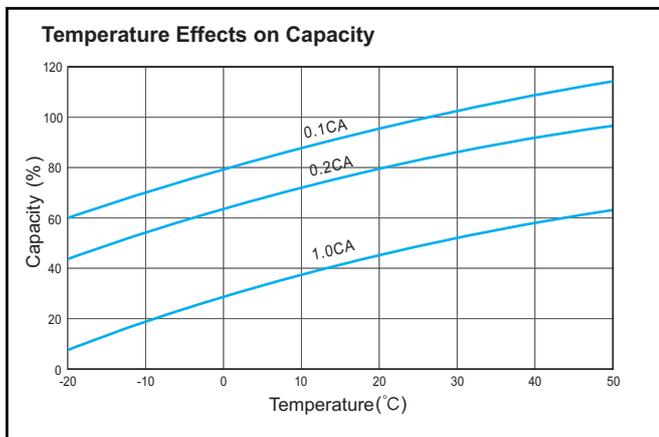
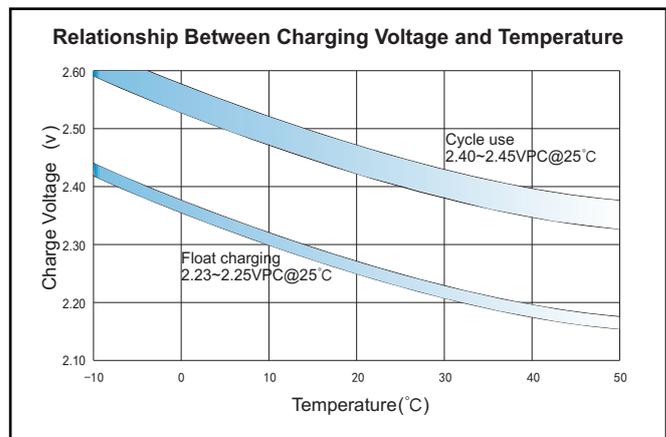
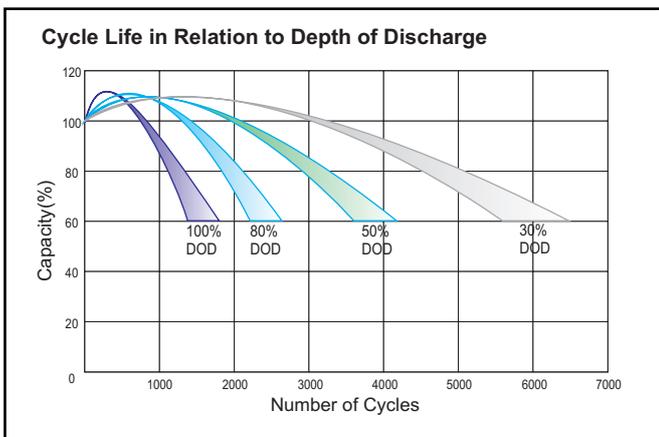
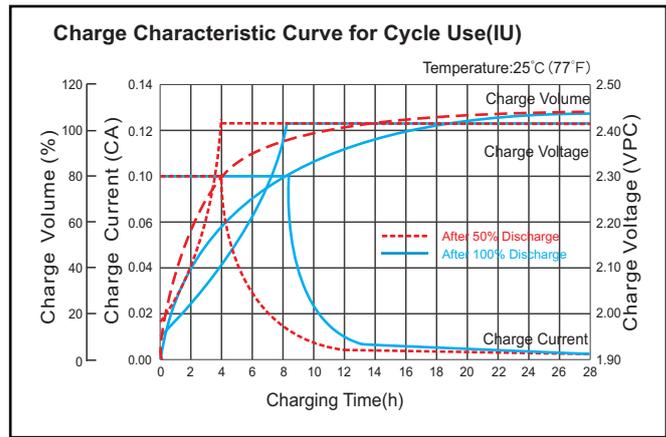
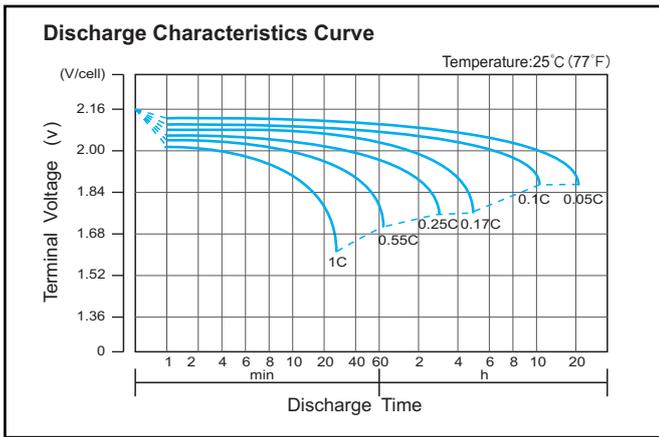
Discharge Constant Current per Cell (Amperes at 25° C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	186.2	147.6	104.1	79.34	62.84	55.86	48.88	38.14	32.71	18.81
1.87V	208.2	162.8	111.7	84.47	66.33	59.08	51.82	39.93	34.18	19.65
1.83V	238.5	181.7	121.1	90.35	69.83	61.74	53.66	41.71	35.65	20.50
1.80V	265.0	196.8	125.7	93.00	71.22	63.17	55.13	42.78	36.75	21.13
1.75V	295.2	210.8	131.3	95.98	72.40	64.31	56.23	43.49	37.49	21.55
1.70V	325.5	217.7	135.1	98.25	73.67	65.31	56.96	43.85	37.85	21.77
1.65V	335.8	231.3	139.7	100.7	74.71	66.21	57.70	44.20	38.22	21.98
1.60V	350.1	239.2	145.0	104.1	76.81	67.62	58.43	44.56	38.59	22.19

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

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	356.5	283.4	201.2	154.3	123.0	109.8	96.65	76.29	66.66	38.33
1.87V	392.2	307.8	213.4	163.1	129.6	115.9	102.2	79.49	69.51	39.97
1.83V	439.4	335.5	227.1	172.4	135.9	120.7	105.5	82.35	72.01	41.40
1.80V	480.1	358.0	234.7	177.0	138.5	123.3	108.0	84.13	73.79	42.43
1.75V	520.8	374.0	242.3	181.1	140.3	125.1	109.9	85.20	74.86	43.04
1.70V	558.5	377.8	248.4	184.9	142.6	126.8	111.0	85.91	75.57	43.45
1.65V	568.0	394.5	255.3	188.8	144.4	128.2	112.1	86.62	75.93	43.66
1.60V	574.8	406.7	261.3	193.4	148.1	130.5	112.8	86.98	76.29	43.86

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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