

OPzS Deep Cycle Tubular Flooded Battery

OPzS2-2500

CSPower 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 DIN40736-2/IEC60896-11 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
2500Ah

Flooded
Technology

Tubular
Plate



Applications

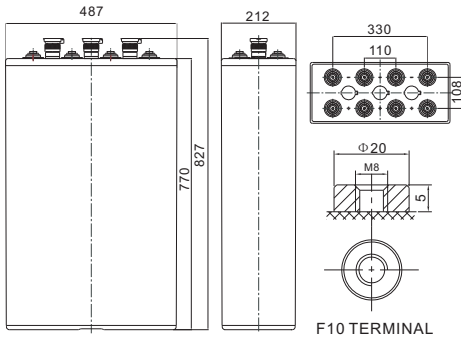
- Solar & Wind Power system
- Nuclear power station
- Telecom backup power supply
- energy saving requirements
Emergency Power System

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

Unit: mm



Length	487±1mm (19.2 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

Technical Specifications

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	2500Ah@10hr-rate to 1.85V per cell @25°C
Weight	Without Electrolyte 140.4kg/With Electrolyte 190.9kg
Internal Resistance	Approx. 0.13 mΩ
Terminal	F10(M8)
Max. Discharge Current	8000A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	250.0 A
Reference Capacity	C24 2992.5AH C48 3306.0AH C72 3471.3AH C100 3550.9AH C120 3621.9AH C240 3682.5AH
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

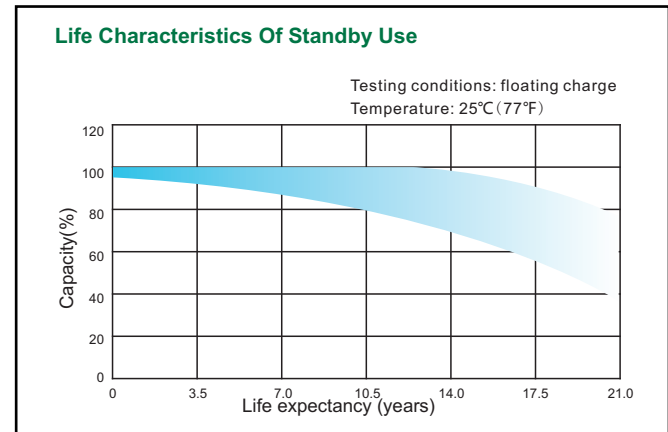
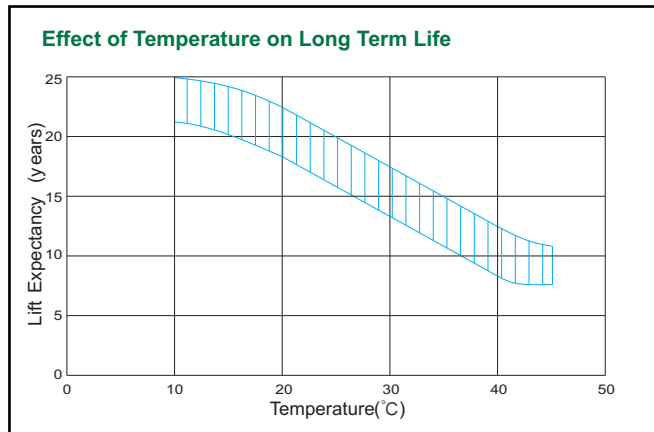
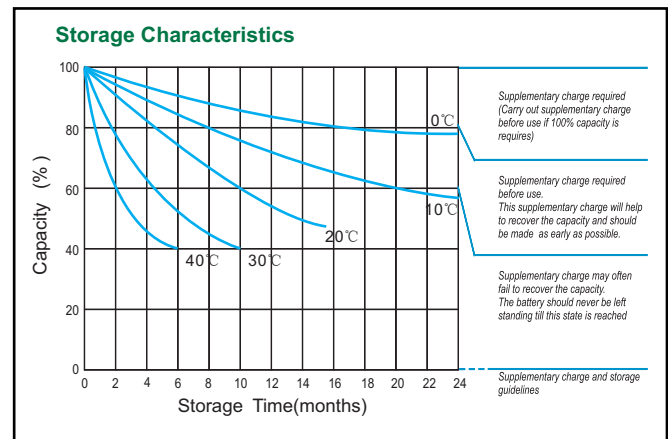
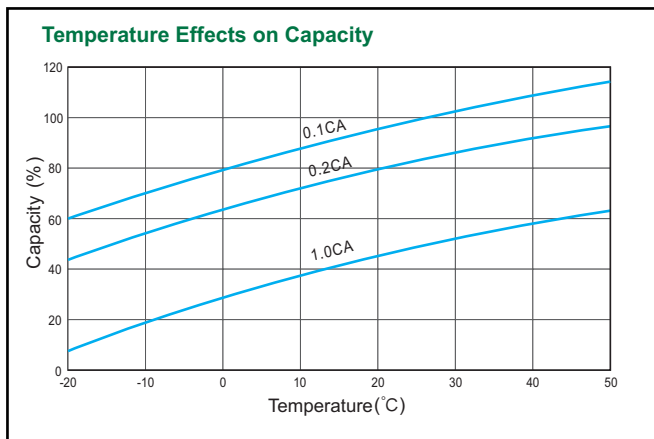
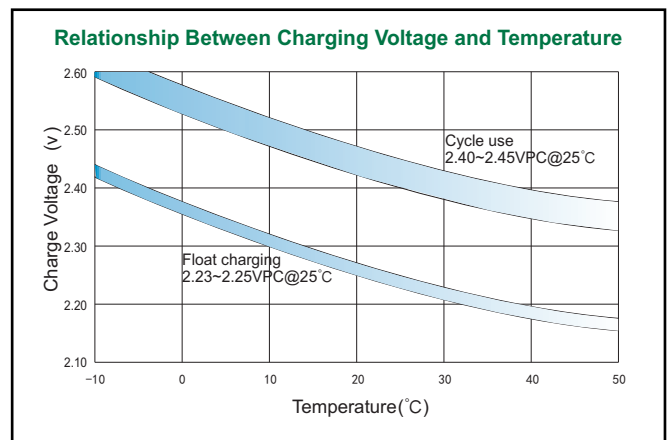
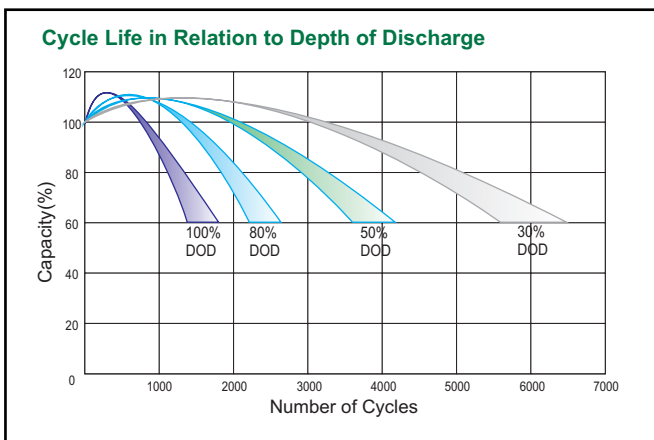
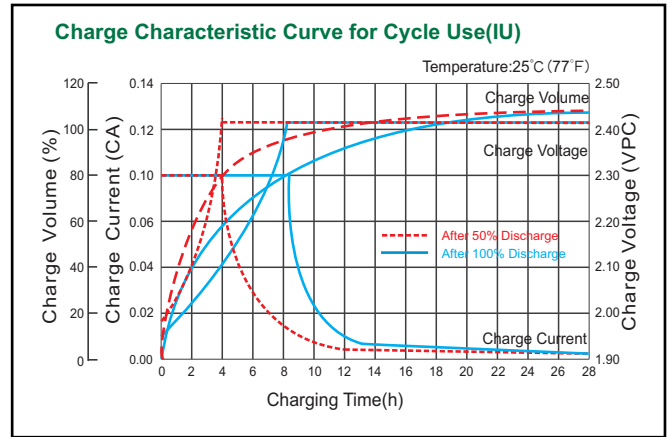
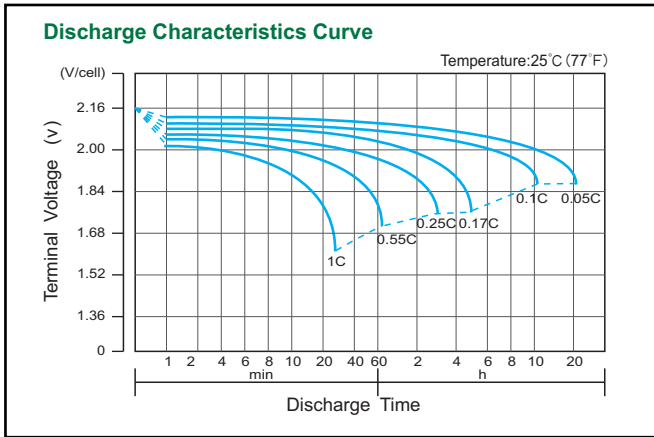
Discharge Constant Current per Cell (Amperes at 25°C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	1330	1054	743.5	566.7	448.9	399.0	349.1	272.4	233.6	134.4
1.87V	1487	1163	797.6	603.3	473.8	422.0	370.1	285.2	244.1	140.4
1.83V	1703	1298	865.2	645.3	498.8	441.0	383.3	297.9	254.6	146.4
1.80V	1893	1406	897.6	664.3	508.7	451.2	393.8	305.6	262.5	150.9
1.75V	2109	1506	938.2	685.6	517.1	459.4	401.6	310.6	267.8	153.9
1.70V	2325	1555	965.2	701.8	526.2	466.5	406.9	313.2	270.4	155.5
1.65V	2398	1652	997.7	719.3	533.7	472.9	412.1	315.7	273.0	157.0
1.60V	2501	1709	1036	743.4	548.6	483.0	417.4	318.3	275.6	158.5

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

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	2546	2024	1437	1102	878.5	784.3	690.4	544.9	476.1	273.8
1.87V	2802	2198	1524	1165	926.0	827.9	729.8	567.8	496.5	285.5
1.83V	3138	2397	1622	1231	970.8	862.1	753.4	588.2	514.3	295.7
1.80V	3429	2557	1677	1264	989.3	880.7	771.8	600.9	527.1	303.1
1.75V	3720	2671	1731	1294	1002	893.6	784.9	608.6	534.7	307.4
1.70V	3989	2698	1774	1321	1018	905.7	792.8	613.6	539.8	310.4
1.65V	4057	2818	1823	1348	1032	915.7	800.6	618.7	542.4	311.9
1.60V	4106	2905	1867	1381	1058	932.1	805.9	621.3	544.9	313.3

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 **CSPower** for the latest information.

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