

OPzS Deep Cycle Tubular Flooded Battery

40PzS100

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 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
100Ah

Flooded
Technology

Tubular
Plate



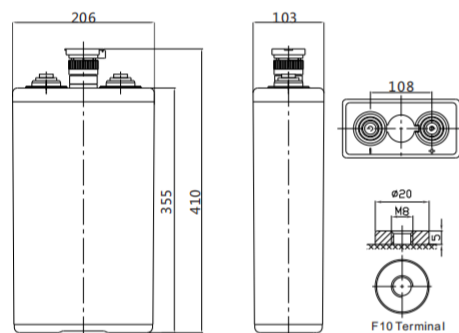
Applications

- 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



Length	103±2mm (4.01 inches)
Width	206±2mm (8.11 inches)
Height	355±2mm (14.0 inches)
Total Height	410±2mm (16.1 inches)
Torque Value	10~12 N*m

Technical Specifications

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	100Ah@10hr-rate to 1.80V per cell @25°C
Weight	Without Electrolyte 9.5kg/With Electrolyte 14.3kg
Internal Resistance	Approx. 1.0 mΩ
Terminal	F10(M8)
Max. Discharge Current	500A (5 sec)
Design Life	20 years (floating charge)
Max. Charging Current	15.0 A
Reference Capacity	C3 81.3AH C5 90.5AH C10 100.0AH C20 121.0AH
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	OPzS series is flooded Lead Acid battery . It can be stored for up to 2 years before filling acid. Monthly Self-discharge ratio is less than 3.5% at 20°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)

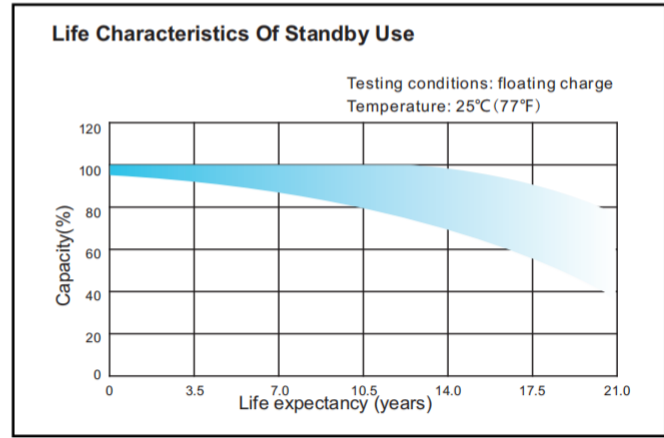
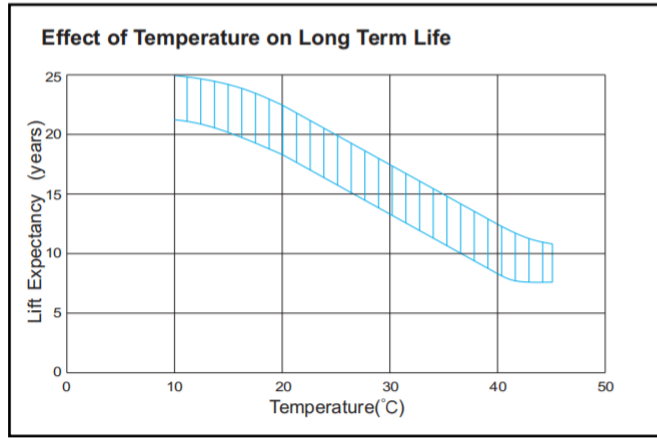
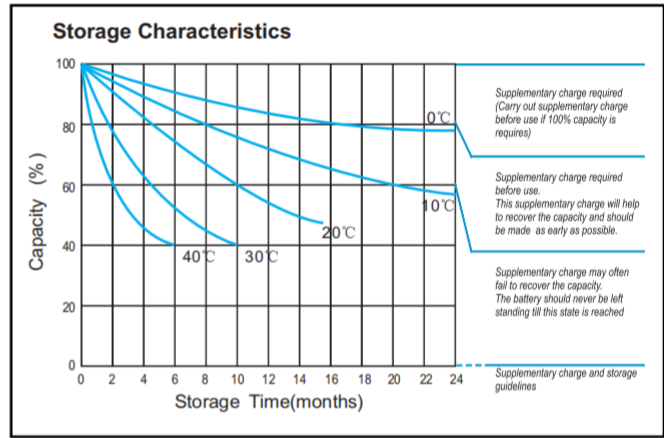
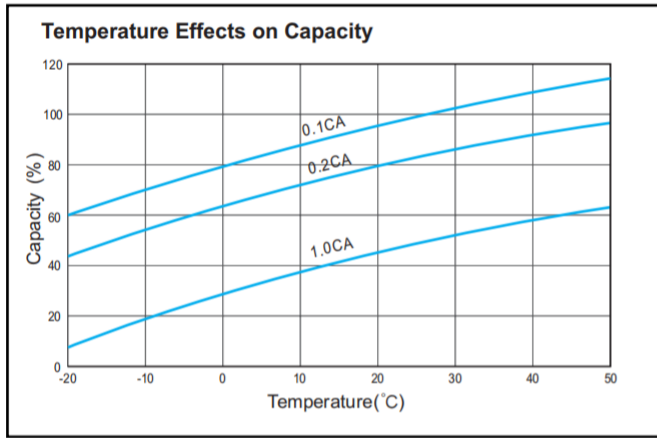
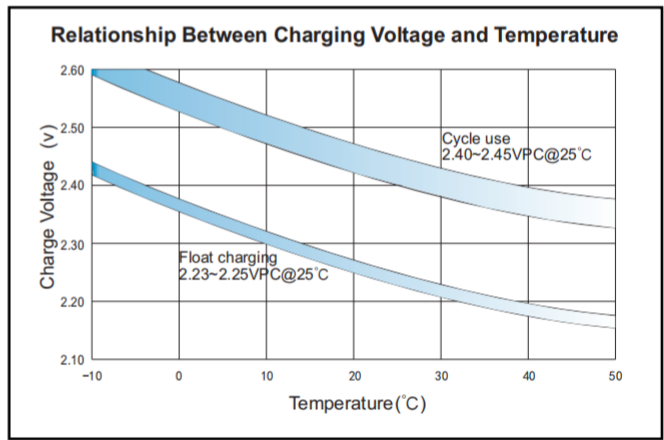
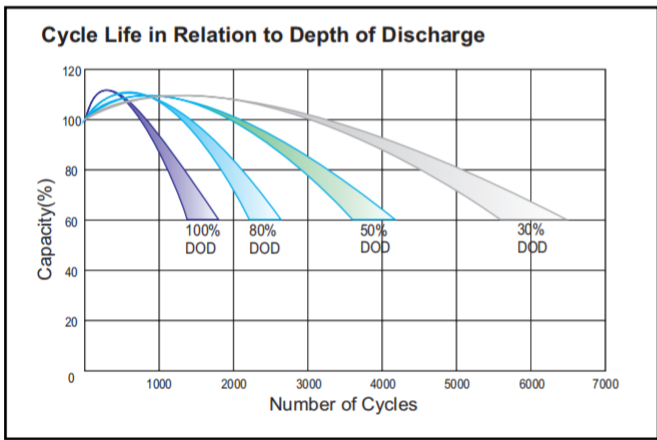
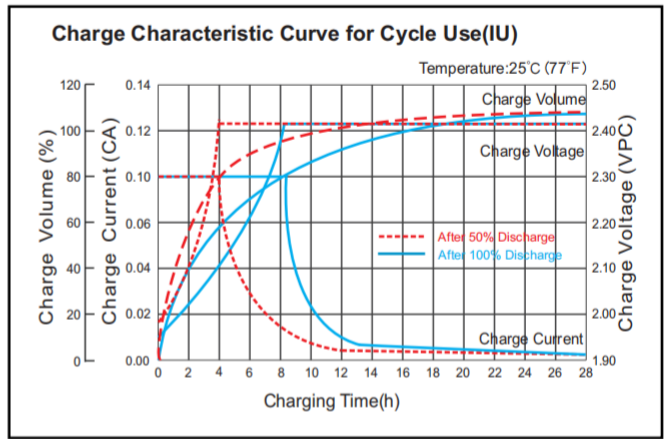
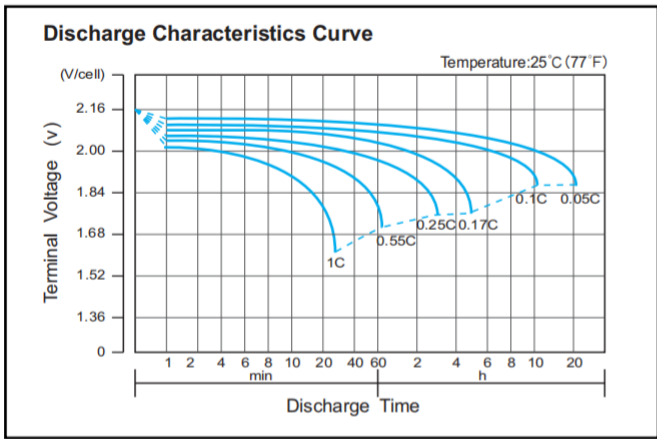
F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	105.5	68.1	40.3	29.3	22.6	19.0	16.5	13.0	10.9	6.30
1.65V	102.3	64.1	39.0	28.6	22.3	18.7	16.3	12.9	10.8	6.24
1.70V	94.5	62.0	37.9	28.0	21.9	18.4	16.1	12.8	10.7	6.17
1.75V	84.8	57.9	36.3	27.1	21.6	18.1	15.8	12.6	10.5	6.05
1.80V	76.6	51.7	33.6	25.5	20.6	17.3	15.1	12.0	10.0	5.75
1.85V	63.9	44.3	30.0	23.1	19.0	16.0	14.0	11.2	9.37	5.39

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

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	178.5	116.1	73.7	55.0	43.7	36.7	32.1	25.5	21.7	12.5
1.65V	175.5	111.2	71.7	53.9	43.2	36.3	31.8	25.3	21.6	12.4
1.70V	166.7	110.0	69.9	52.8	42.5	35.9	31.5	25.1	21.4	12.3
1.75V	153.6	105.3	67.7	51.6	41.9	35.3	31.0	24.8	21.1	12.2
1.80V	142.6	96.5	63.6	48.9	40.2	33.9	29.8	23.8	20.3	11.7
1.85V	122.2	85.0	58.1	45.0	37.2	31.5	27.7	22.4	19.1	11.0

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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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