

OPzS Deep Cycle Tubular Flooded Battery

50PzS250

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
250Ah

Flooded
Technology

Tubular
Plate



Applications

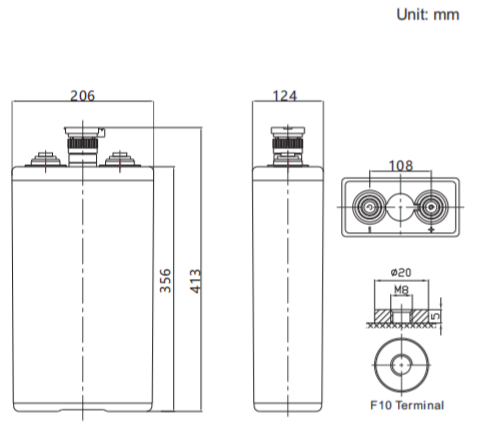
- Solar & Wind Power system
- Nuclear power station
- Telecom backup power supply
- energy saving requirements
Emergency Power System

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	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	250Ah@10hr-rate to 1.85V per cell @25°C
Weight	Without Electrolyte 15.8 kg/With Electrolyte 21.1kg
Internal Resistance	Approx. 0.76 mΩ
Terminal	F10(M8)
Max. Discharge Current	1200A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	37.5 A
Reference Capacity	C24 299.3AH C48 336.7AH C72 353.5AH C100 361.6AH C120 368.8AH C240 375.0AH
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 charge 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)

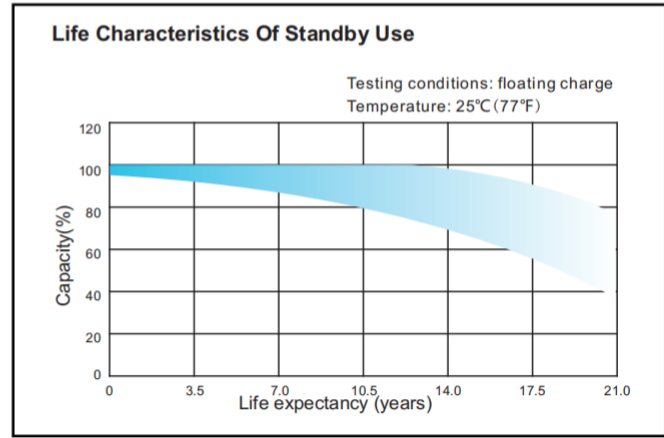
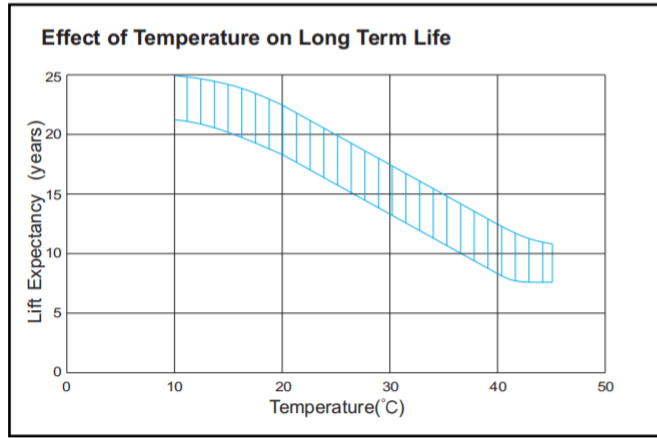
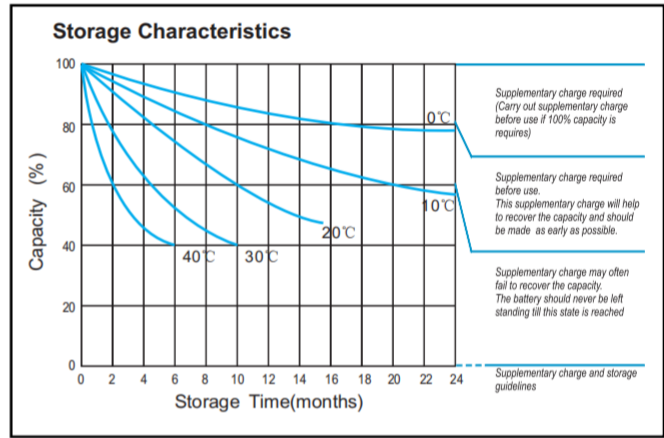
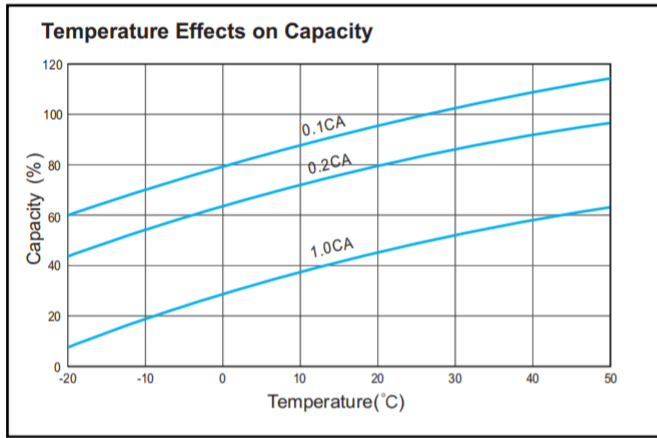
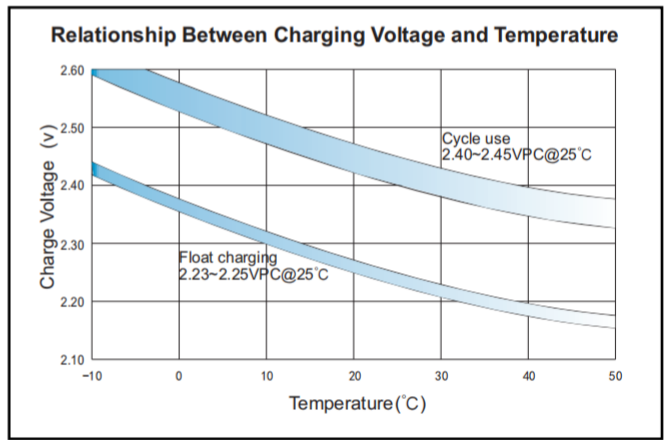
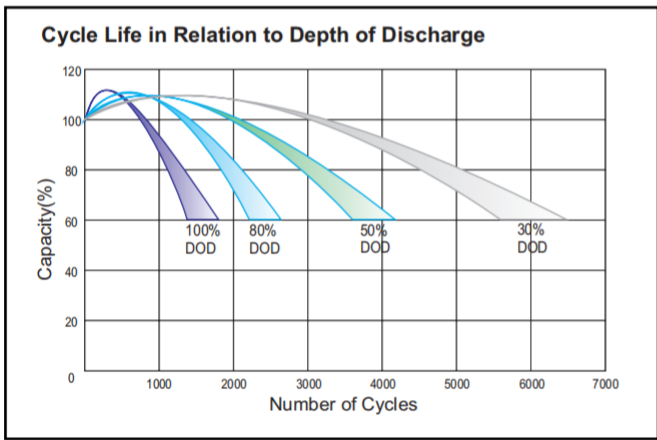
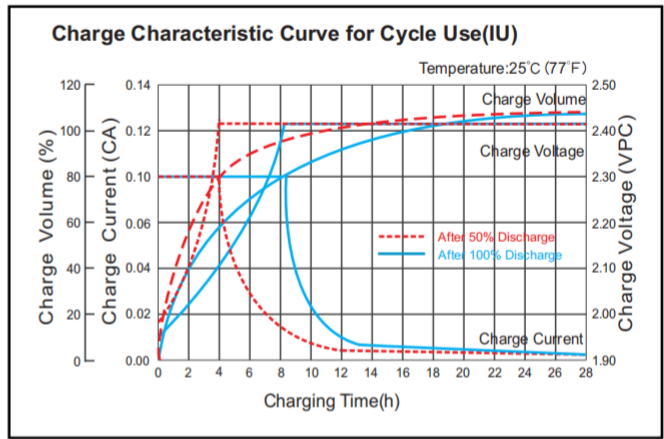
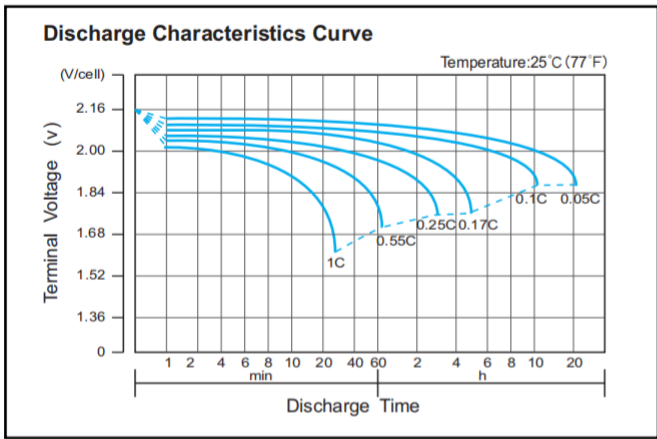
F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	133.0	105.4	74.35	56.67	44.89	39.90	34.91	27.24	23.36	13.44
1.87V	148.7	116.3	79.76	60.33	47.38	42.20	37.01	28.52	24.41	14.04
1.83V	170.3	129.8	86.52	64.53	49.88	44.10	38.33	29.79	25.46	14.64
1.80V	189.3	140.6	89.76	66.43	50.87	45.12	39.38	30.56	26.25	15.09
1.75V	210.9	150.6	93.82	68.56	51.71	45.94	40.16	31.06	26.78	15.39
1.70V	232.5	155.5	96.52	70.18	52.62	46.65	40.69	31.32	27.04	15.55
1.65V	239.8	165.2	99.77	71.93	53.37	47.29	41.21	31.57	27.30	15.70
1.60V	250.1	170.9	103.6	74.34	54.86	48.30	41.74	31.83	27.56	15.85

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

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	254.6	202.4	143.7	110.2	87.85	78.43	69.04	54.49	47.61	27.38
1.87V	280.2	219.8	152.4	116.5	92.60	82.79	72.98	56.78	49.65	28.55
1.83V	313.8	239.7	162.2	123.1	97.08	86.21	75.34	58.82	51.43	29.57
1.80V	342.9	255.7	167.7	126.4	98.93	88.07	77.18	60.09	52.71	30.31
1.75V	372.0	267.1	173.1	129.4	100.2	89.36	78.49	60.86	53.47	30.74
1.70V	398.9	269.8	177.4	132.1	101.8	90.57	79.28	61.36	53.98	31.04
1.65V	405.7	281.8	182.3	134.8	103.2	91.57	80.06	61.87	54.24	31.19
1.60V	410.6	290.5	186.7	138.1	105.8	93.21	80.59	62.13	54.49	31.33

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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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