

OPzS2-1000

2V 1000AH

Flooded Tubular Deep Cycle Valve Regulated Lead Acid Battery

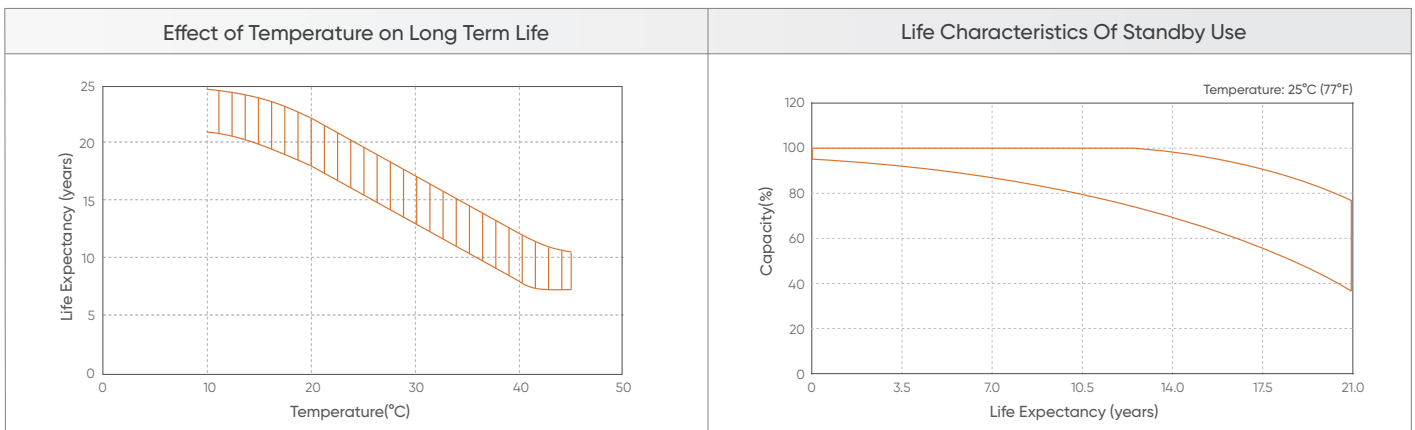
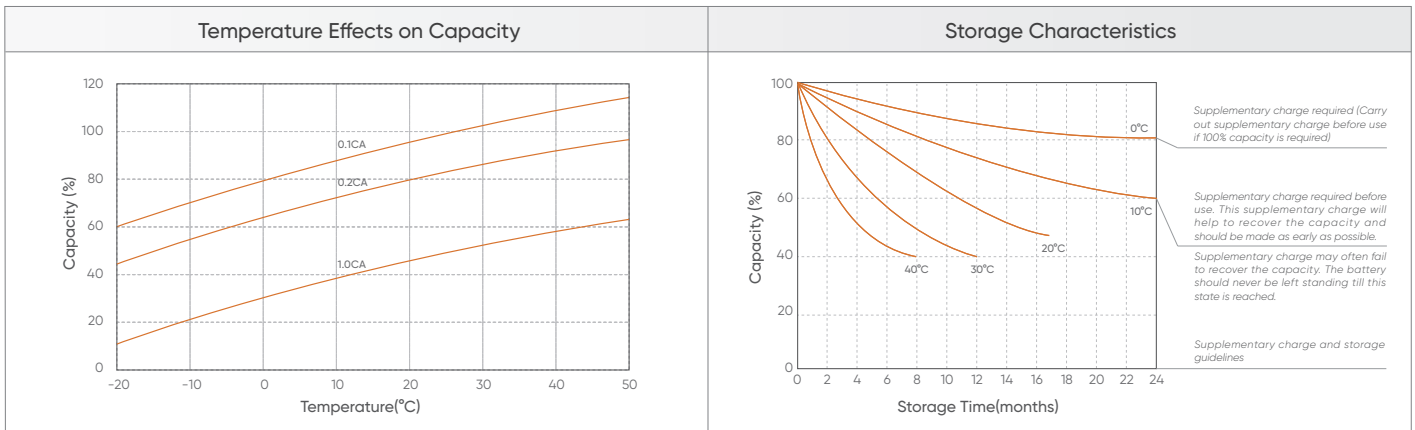
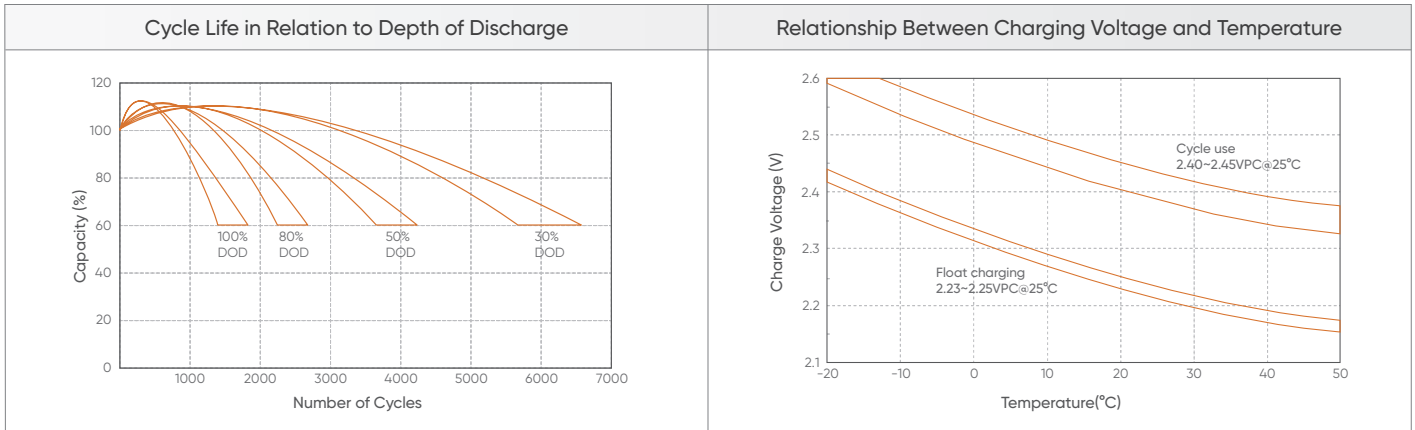
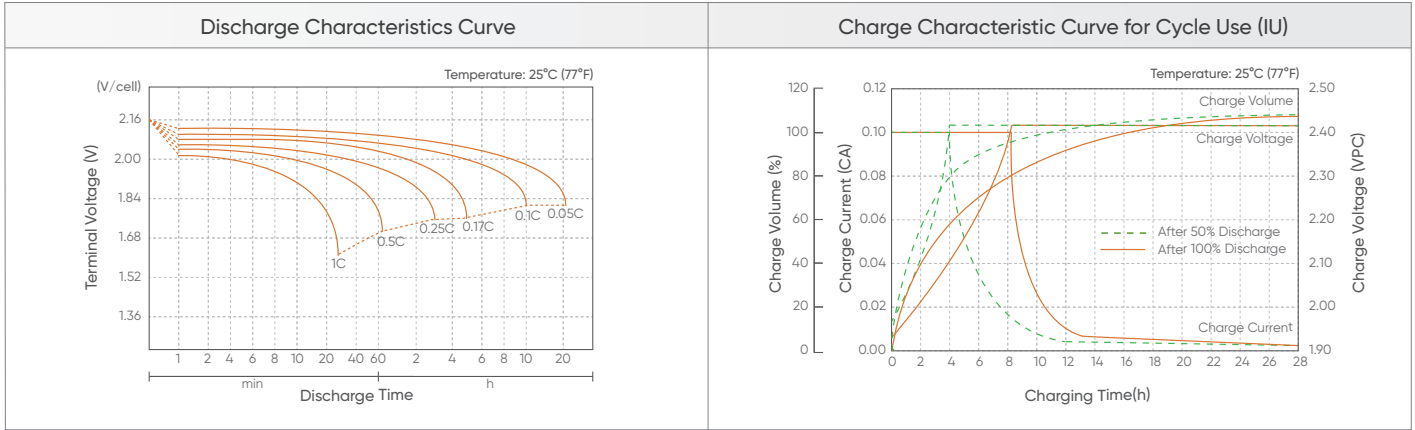
OPzS series is flooded Lead Acid battery that adopts Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to standards of DIN40736-2/IEC60896-11 with positive spine and patent formula of die-casting active material. OPzS series exceeds standard values with more than 20 years floating design life at 25°C and is suitable for cyclic use(solar/wind energy storage system, traction etc) under extreme operating conditions.



Specification		Dimensions
Cells Per Unit	1	<p>F10 Terminal Torque Value: 10-12 N*m</p> <p>Length 233±1mm (9.17 inches)</p> <p>Width 210±1mm (8.27 inches)</p> <p>Height 646±1mm (25.4 inches)</p> <p>Total Height 703±1mm (27.7 inches)</p>
Voltage Per Unit	2	
Capacity	1000Ah@10hr-rate to 1.85V per cell @25°C	
Weight	Approx. 78.0Kg/57.8Kg (with/without electrolyte)	
Internal Resistance	Approx. 0.28 mΩ	
Terminal	F10(M8)	
Max. Discharge Current	3800A (5 sec)	
Design Life	20 years (floating charge)	
Maximum Charging Current	125.0 A	
Reference Capacity	C24 1197.0AH C48 1346.6AH C72 1414.0AH C100 1446.4AH C120 1475.3AH C240 1500.0AH	
Float Charging Voltage	2.23V~2.25V @25°C Temperature Compensation: -3mV/°C/Cell	
Cycle Use Voltage	2.40V~2.45V @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	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	

Constant Current Discharge Characteristics: A (25°C)										
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.90V	532.1	421.8	297.4	226.7	179.6	158.3	139.7	109.0	93.45	49.06
1.87V	594.8	465.0	319.0	241.3	189.5	167.8	148.1	114.1	97.65	51.27
1.83V	681.3	519.1	346.1	258.1	199.5	173.7	153.3	119.2	101.9	53.47
1.80V	757.1	562.4	359.1	265.7	203.5	178.5	157.5	122.2	105.0	55.13
1.75V	843.6	602.4	375.3	274.2	206.9	182.1	160.7	124.3	107.1	56.23
1.70V	930.1	621.9	386.1	280.7	210.5	184.5	162.8	125.3	108.2	56.78
1.65V	959.3	660.8	399.1	287.7	213.5	186.8	164.9	126.3	109.2	57.33
1.60V	1000	683.5	414.2	297.4	219.5	189.2	167.0	127.3	110.3	57.88

Constant Power Discharge Characteristics : WPC (25°C)										
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.90V	1018	809.7	575.0	440.8	351.4	311.7	276.2	218.0	190.5	100.0
1.87V	1121	879.3	609.8	466.1	370.4	329.2	291.9	227.1	198.6	104.3
1.83V	1255	958.7	648.9	492.6	388.3	339.6	301.4	235.3	205.7	108.0
1.80V	1372	1023	670.6	505.7	395.7	348.4	308.7	240.4	210.8	110.7
1.75V	1488	1068	692.4	517.5	401.0	355.6	314.0	243.4	213.9	112.3
1.70V	1596	1079	709.8	528.3	407.3	359.2	317.1	245.5	215.9	113.4
1.65V	1623	1127	729.3	539.3	412.6	362.9	320.3	247.5	216.9	113.9
1.60V	1642	1162	746.7	552.6	423.2	364.5	322.4	248.5	218.0	114.4



(Note) All above information shall be changed without prior notice, SunArk reserves the right to explain and update the latest information.