

# OPzS2-2000

## 2V 2000AH

### Flooded Tubular Deep Cycle Valve Regulated Lead Acid Battery

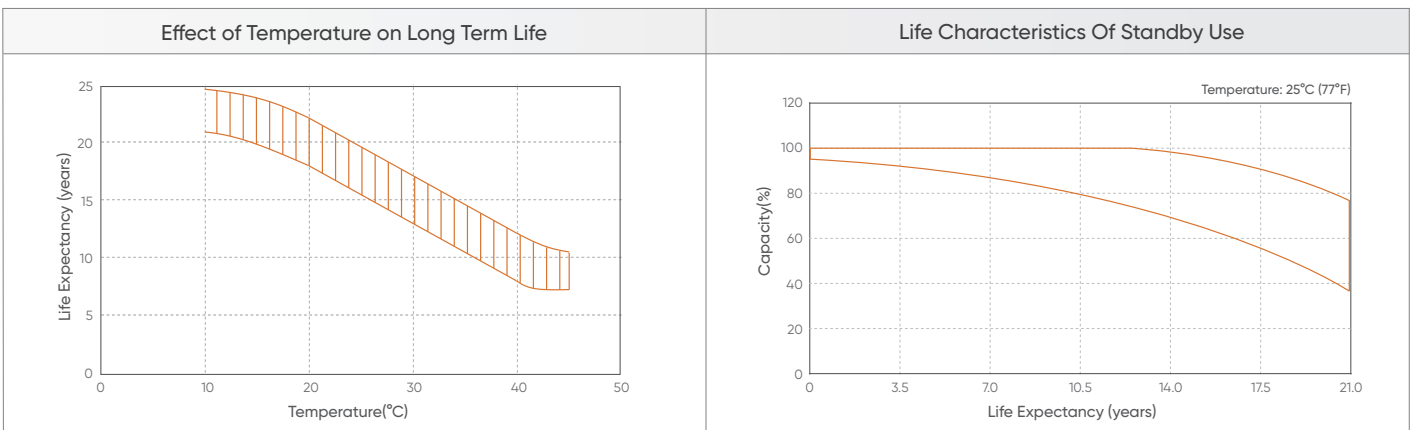
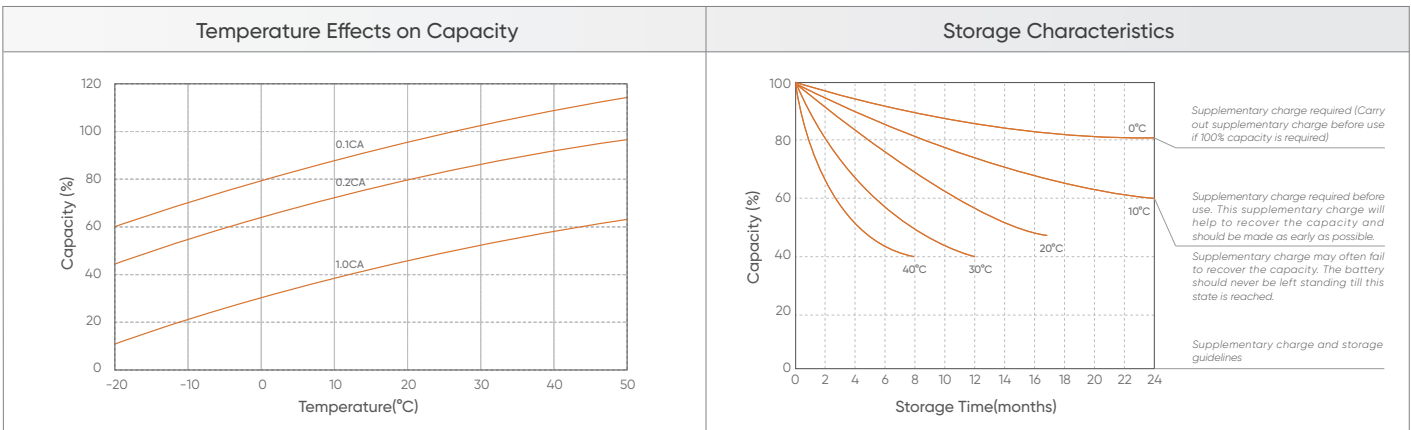
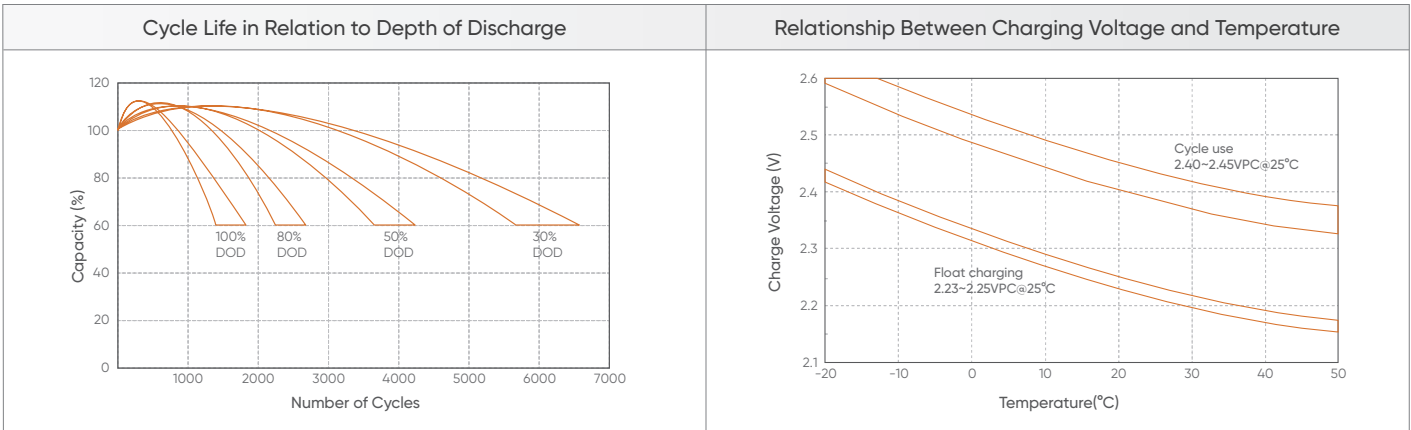
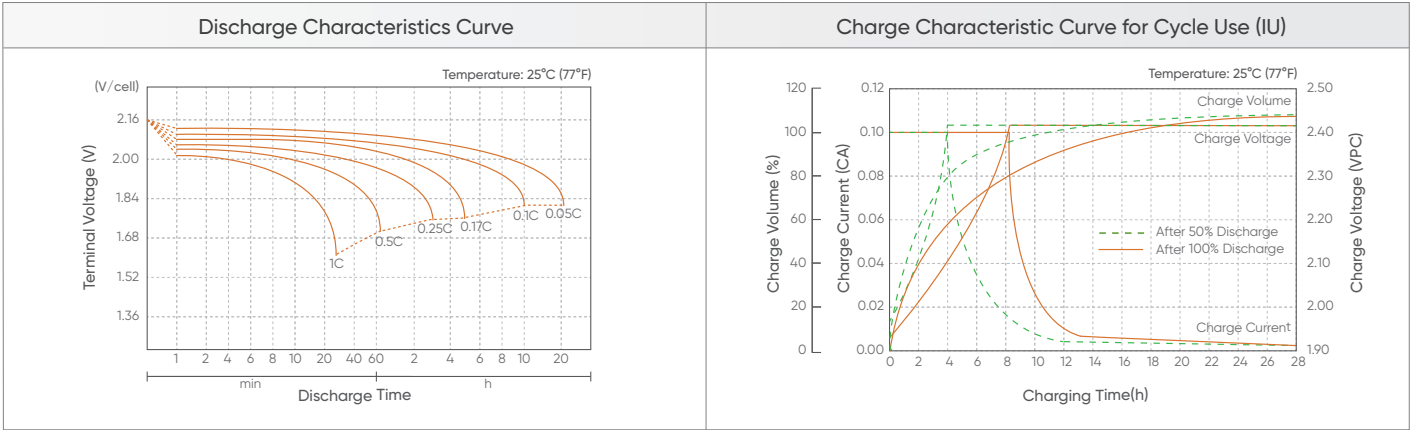
OPzS series is flooded Lead Acid battery that adopts Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to standards of DIN40736-2/IEC60896-11 with positive spine and patent formula of die-casting active material. OPzS series exceeds 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>Unit: mm</p> <p>F10 Terminal Torque Value: 10-12 N*m</p> <p>Length <b>399±1mm (15.7 inches)</b></p> <p>Height <b>770±1mm (30.3 inches)</b></p> <p>Width <b>214±1mm (8.43 inches)</b></p> <p>Total Height <b>827±1mm (32.6 inches)</b></p>
Voltage Per Unit	2	
Capacity	2000Ah@10hr-rate to 1.85V per cell @25°C	
Weight	Approx. 153.4Kg/112.8Kg (with/without electrolyte)	
Internal Resistance	Approx. 0.17 mΩ	
Terminal	F10(M8)	
Max. Discharge Current	7500A (5 sec)	
Design Life	20 years (floating charge)	
Maximum Charging Current	200.0 A	
Reference Capacity	C24 2394.0AH C48 2644.8AH C72 2777.0AH C100 2840.7AH C120 2897.5AH C240 2946.0AH	
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	1064	843.6	594.8	453.4	359.1	319.2	279.3	218.0	186.9	107.49
1.87V	1190	930.1	638.1	482.7	379.1	337.6	296.1	228.1	195.3	112.3
1.83V	1363	1038	692.2	516.3	399.0	352.8	306.6	238.3	203.7	117.1
1.80V	1514	1125	718.1	531.4	407.0	361.0	315.0	244.4	210.0	120.7
1.75V	1687	1205	750.6	548.4	413.7	367.5	321.3	248.5	214.2	123.1
1.70V	1860	1244	772.2	561.4	420.9	373.2	325.5	250.6	216.3	124.4
1.65V	1919	1322	798.1	575.4	426.9	378.3	329.7	252.6	218.4	125.6
1.60V	2001	1367	828.4	594.7	438.9	386.4	333.9	254.6	220.5	126.8

Constant Power Discharge Characteristics : WPC (25°C)										
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.90V	2037	1619	1150	881.7	702.8	627.4	552.3	435.9	380.9	219.0
1.87V	2241	1759	1220	932.3	740.8	662.3	583.8	454.3	397.2	228.4
1.83V	2511	1917	1298	985.1	776.7	689.7	602.7	470.5	411.5	236.6
1.80V	2743	2046	1341	1011	791.4	704.6	617.4	480.7	421.7	242.5
1.75V	2976	2137	1385	1035	802.0	714.9	627.9	486.8	427.8	245.9
1.70V	3191	2159	1420	1057	814.7	724.6	634.2	490.9	431.8	248.3
1.65V	3246	2254	1459	1079	825.2	732.6	640.5	495.0	433.9	249.5
1.60V	3285	2324	1493	1105	846.3	745.7	644.7	497.0	435.9	250.6



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