

# OPzS2-1500

## 2V 1500AH

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

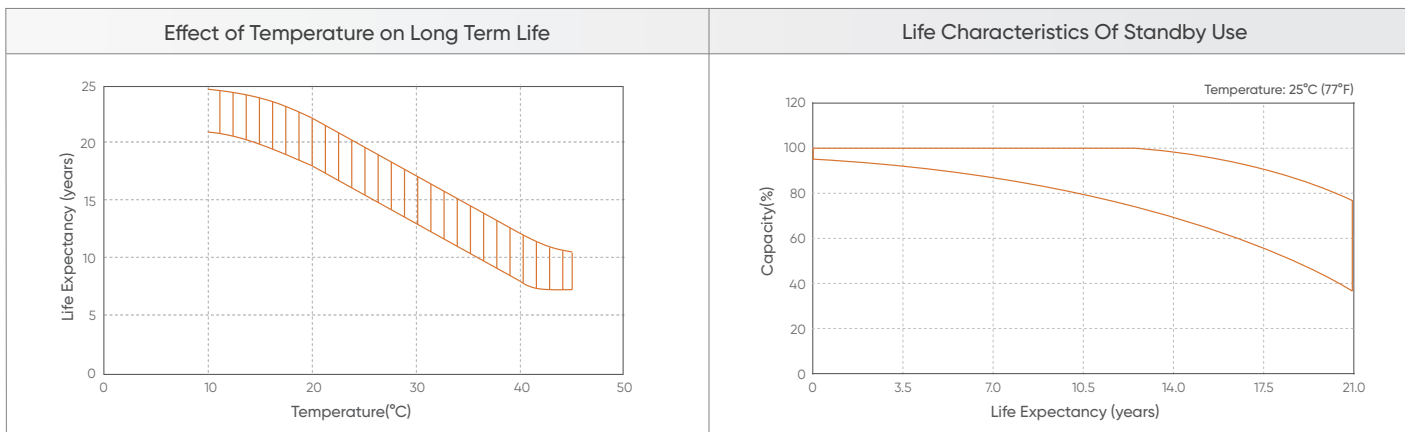
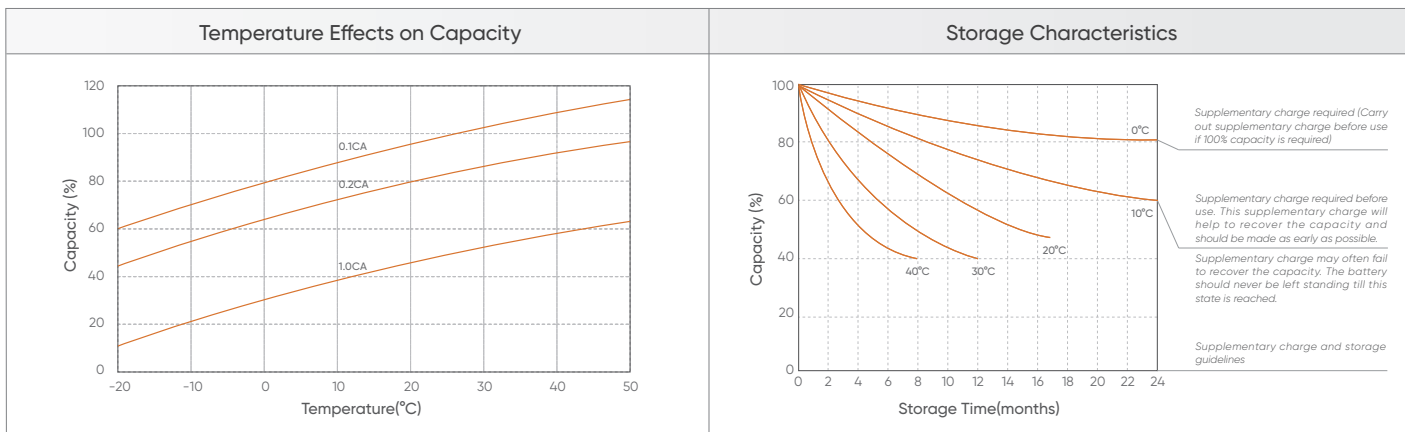
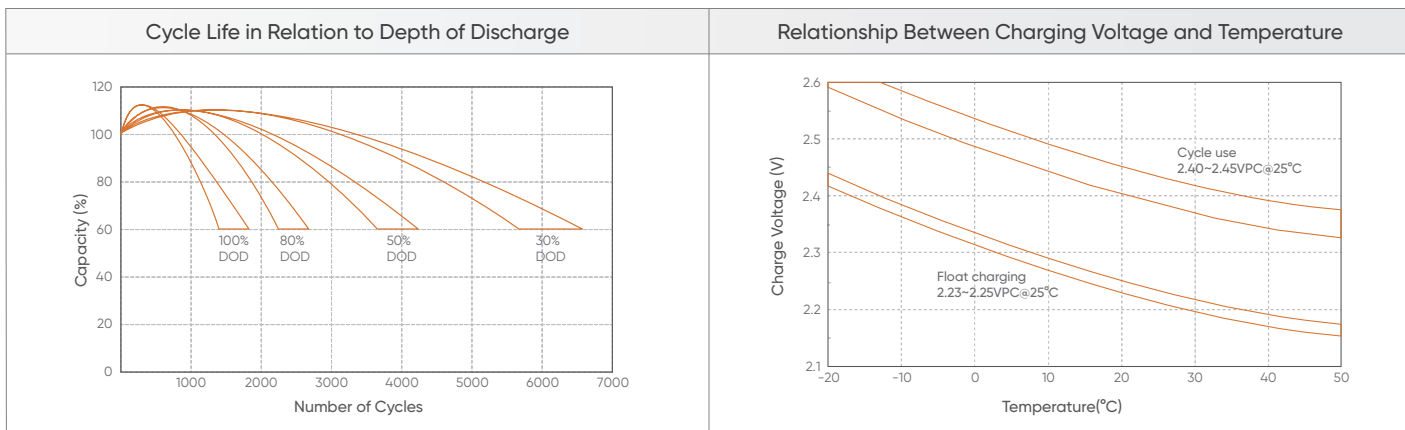
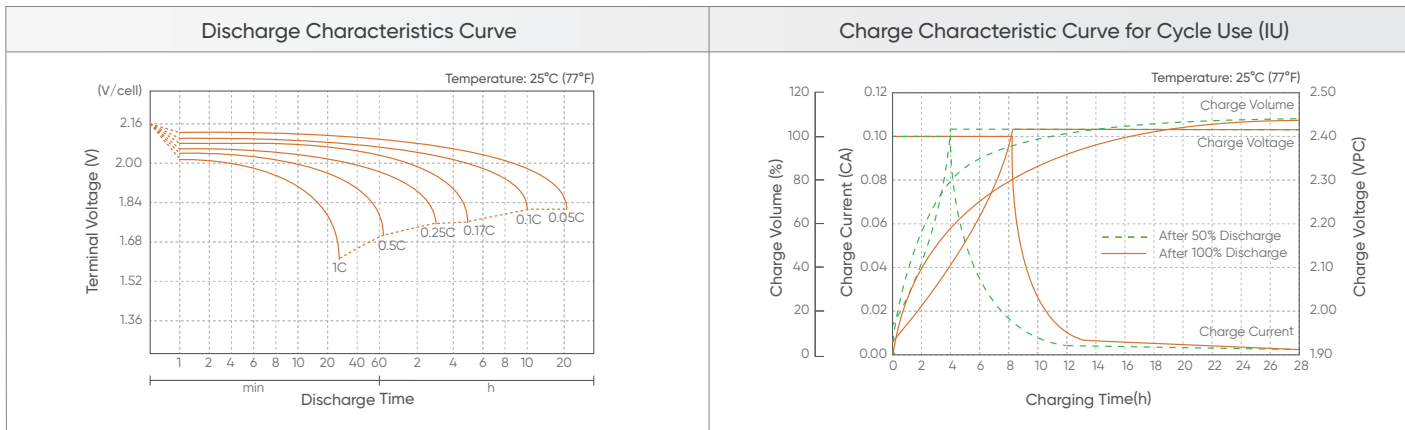
OPzS series is flooded Lead Acid battery that adopts Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to standards of DIN40736-2/IEC60896-11 with positive spine and patent formula of die-casting active material. OPzS series exceeds 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 275±1mm (10.8 inches)</p> <p>Width 210±1mm (8.27 inches)</p> <p>Height 795±1mm (31.3 inches)</p> <p>Total Height 852±1mm (33.5 inches)</p>
Voltage Per Unit	2	
Capacity	1500Ah@10hr-rate to 1.85V per cell @25°C	
Weight	Approx. 113.5Kg/83.5Kg (with/without electrolyte)	
Internal Resistance	Approx. 0.21 mΩ	
Terminal	F10(M8)	
Max. Discharge Current	5000A (5 sec)	
Design Life	20 years (floating charge)	
Maximum Charging Current	150.0 A	
Reference Capacity	C24 1795.5AH C48 2019.9AH C72 2120.9AH C100 2169.6AH C120 2213.0AH C240 2250.0AH	
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	798.1	632.7	446.1	340.0	269.3	239.4	209.5	163.5	140.2	80.61
1.87V	892.2	697.6	478.6	362.0	284.3	253.2	222.1	171.1	146.5	84.21
1.83V	1022	778.7	519.1	387.2	299.3	264.6	230.0	178.7	152.8	87.86
1.80V	1136	843.6	538.6	398.6	305.2	270.7	236.3	183.3	157.5	90.56
1.75V	1265	903.6	562.9	411.3	310.3	275.6	241.0	186.4	160.7	92.36
1.70V	1395	932.8	579.1	421.1	315.7	279.9	244.1	187.9	162.2	93.30
1.65V	1439	991.2	598.6	431.6	320.2	283.8	247.3	189.4	163.8	94.20
1.60V	1501	1025	621.3	446.0	329.2	289.8	250.4	191.0	165.4	95.10

Constant Power Discharge Characteristics : WPC (25°C)										
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.90V	1528	1215	862.5	661.2	527.1	470.6	414.2	326.9	285.7	164.3
1.87V	1681	1319	914.6	699.2	555.6	496.7	437.9	340.7	297.9	171.3
1.83V	1883	1438	973.3	738.8	582.5	517.3	452.0	352.9	308.6	177.4
1.80V	2058	1534	1006	758.5	593.6	528.4	463.1	360.5	316.2	181.8
1.75V	2232	1603	1039	776.3	601.5	536.1	470.9	365.1	320.8	184.5
1.70V	2393	1619	1065	792.4	611.0	543.4	475.7	368.2	323.9	186.2
1.65V	2434	1691	1094	808.9	618.9	549.4	480.4	371.2	325.4	187.1
1.60V	2463	1743	1120	828.9	634.7	559.3	483.5	372.8	326.9	188.0



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