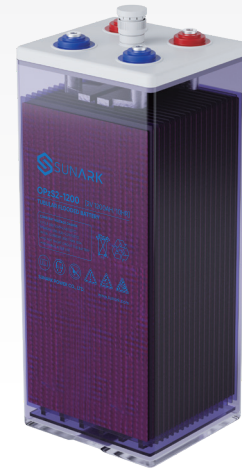


# OPzS2-1200

## 2V 1200AH

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

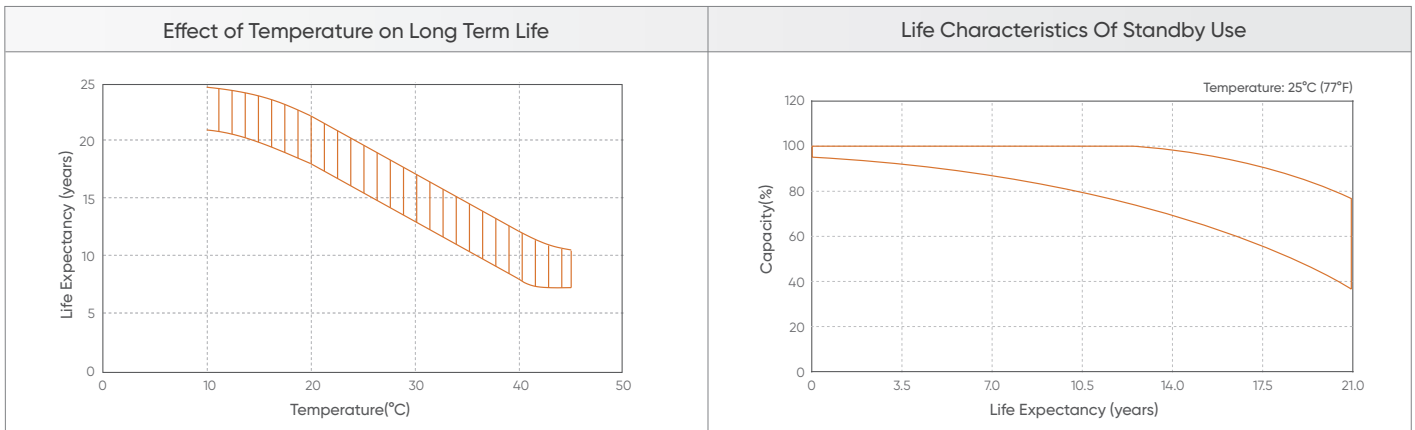
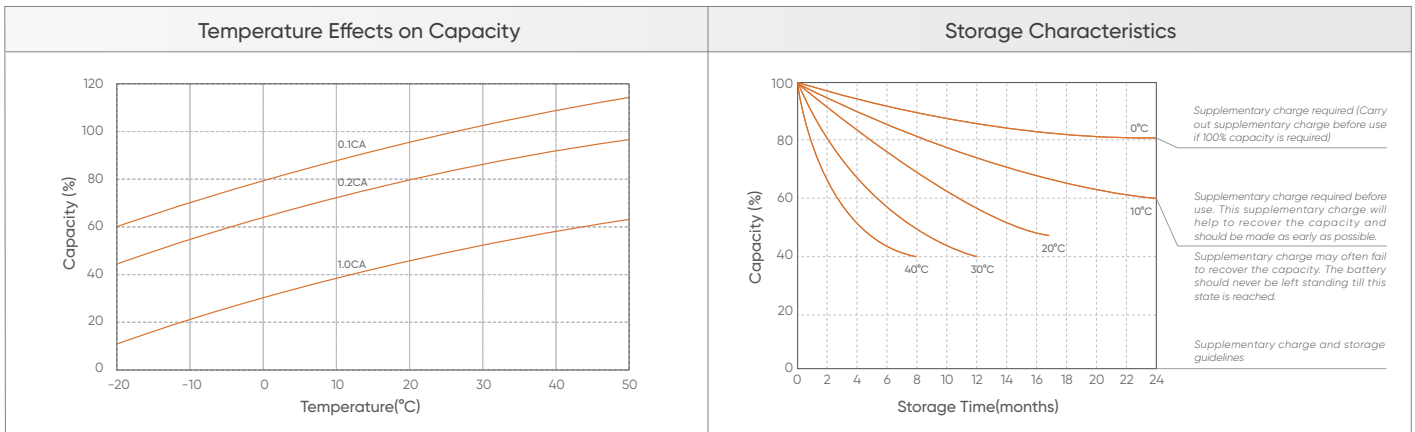
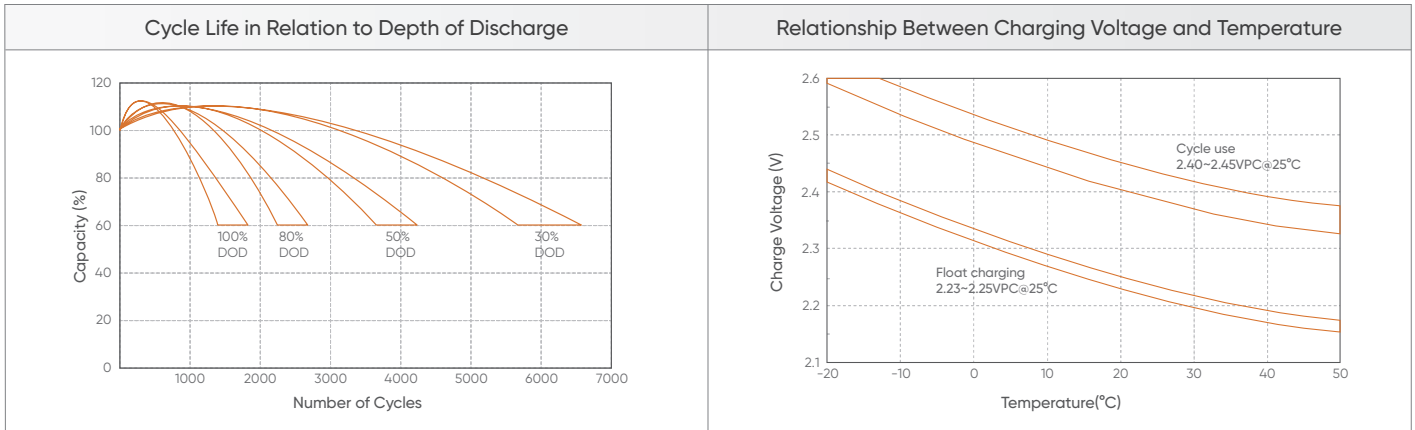
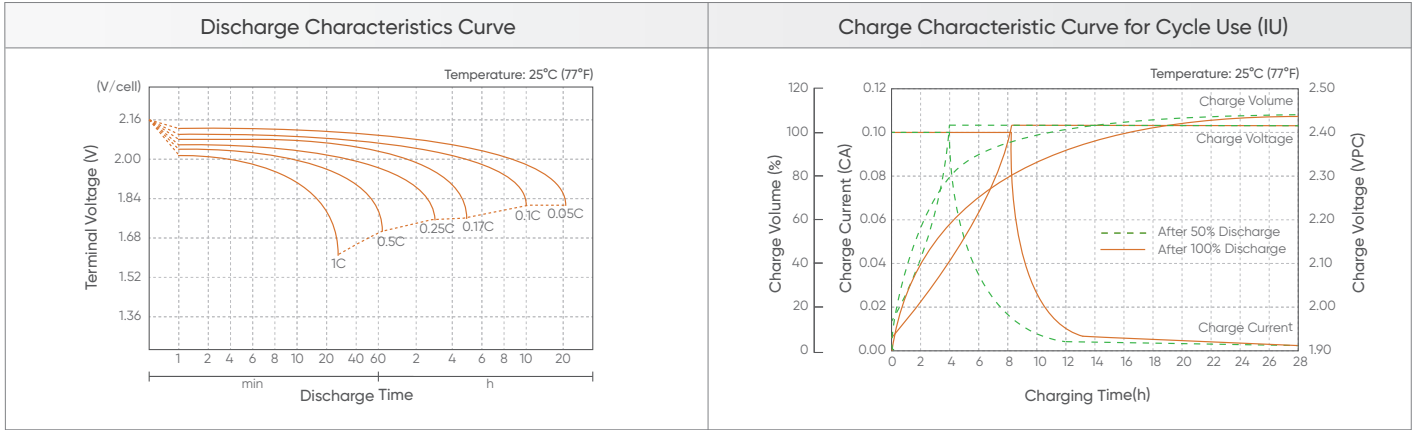
OPzS series is flooded Lead Acid battery that adopts Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to standards of DIN40736-2/IEC60896-11 with positive spine and patent formula of die-casting active material. OPzS series exceeds 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 646±1mm (25.4 inches)</p> <p>Total Height 703±1mm (27.7 inches)</p>
Voltage Per Unit	2	
Capacity	1200Ah@10hr-rate to 1.85V per cell @25°C	
Weight	Approx. 91.8Kg/68.0Kg (with/without electrolyte)	
Internal Resistance	Approx. 0.23 mΩ	
Terminal	F10(M8)	
Max. Discharge Current	4500A (5 sec)	
Design Life	20 years (floating charge)	
Maximum Charging Current	150.0 A	
Reference Capacity	C24 1436.4AH C48 1616.0AH C72 1696.7AH C100 1735.7AH C120 1770.4AH C240 1800.0AH	
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	638.5	506.1	356.9	272.0	215.5	191.5	167.6	130.8	112.1	64.49
1.87V	713.8	558.1	382.9	289.6	227.4	202.6	177.7	136.9	117.2	67.37
1.83V	817.6	622.9	415.3	309.8	239.4	211.7	184.0	143.0	122.2	70.29
1.80V	908.5	674.9	430.9	318.9	244.2	216.6	189.0	146.7	126.0	72.45
1.75V	1012	722.9	450.3	329.1	248.2	220.5	192.8	149.1	128.5	73.89
1.70V	1116	746.2	463.3	336.9	252.6	223.9	195.3	150.3	129.8	74.64
1.65V	1151	793.0	478.9	345.3	256.2	227.0	197.8	151.6	131.0	75.36
1.60V	1200	820.2	497.1	356.8	263.3	231.8	200.3	152.8	132.3	76.08

Constant Power Discharge Characteristics : WPC (25°C)										
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.90V	1222	972	690.0	529.0	421.7	376.5	331.4	261.6	228.6	131.4
1.87V	1345	1055	731.7	559.4	444.5	397.4	350.3	272.6	238.3	137.0
1.83V	1506	1150	778.7	591.1	466.0	413.8	361.6	282.3	246.9	141.9
1.80V	1646	1227	804.7	606.8	474.9	422.7	370.4	288.4	253.0	145.5
1.75V	1786	1282	830.8	621.0	481.2	428.9	376.7	292.1	256.7	147.6
1.70V	1915	1295	851.7	634.0	488.8	434.7	380.5	294.6	259.1	149.0
1.65V	1947	1353	875.2	647.1	495.1	439.5	384.3	297.0	260.3	149.7
1.60V	1971	1394	896.0	663.1	507.8	447.4	386.8	298.2	261.6	150.4



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