

# OPzS2-600

## 2V 600AH

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

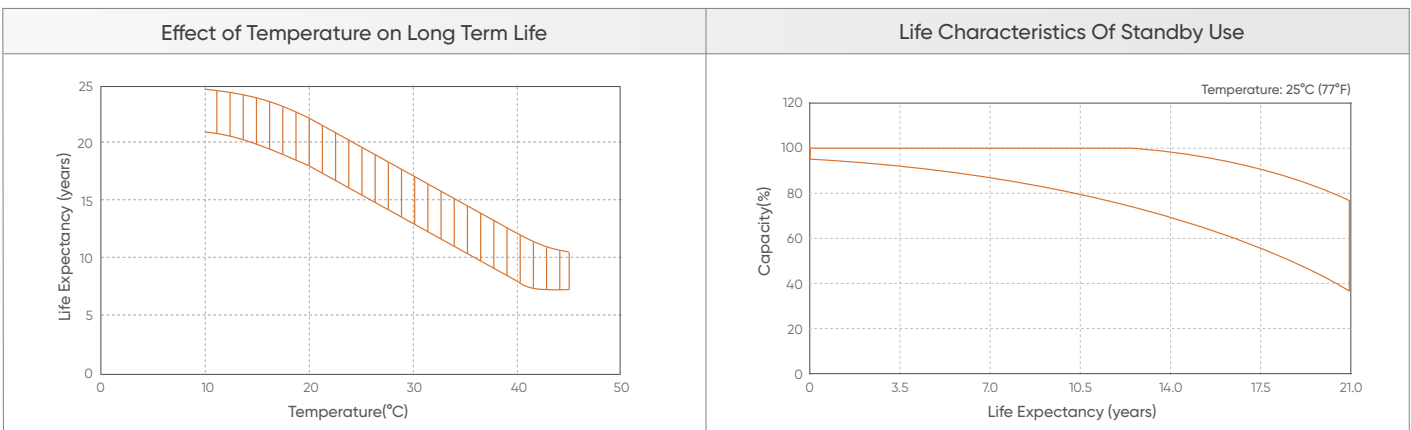
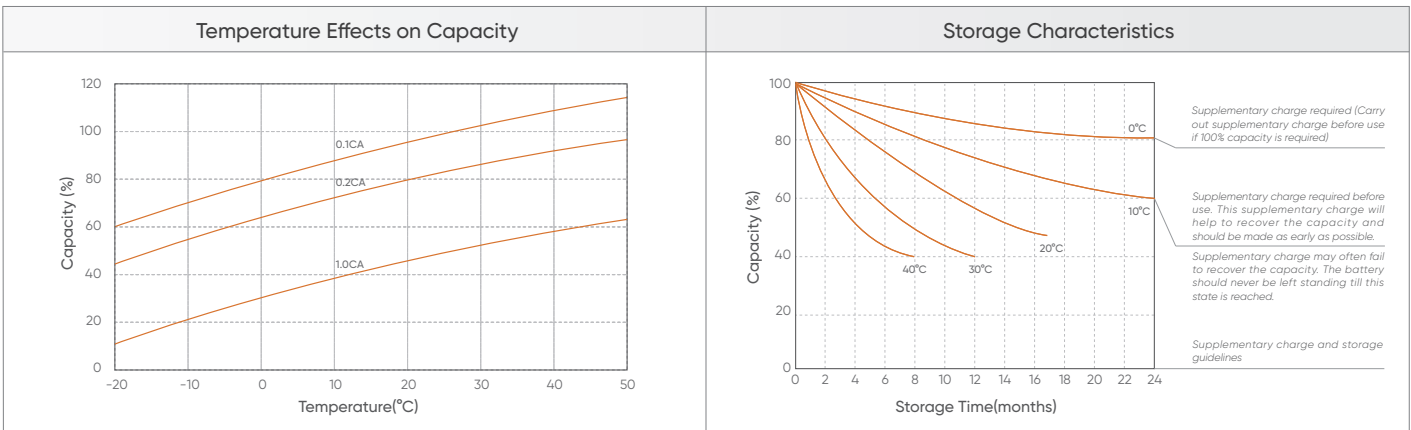
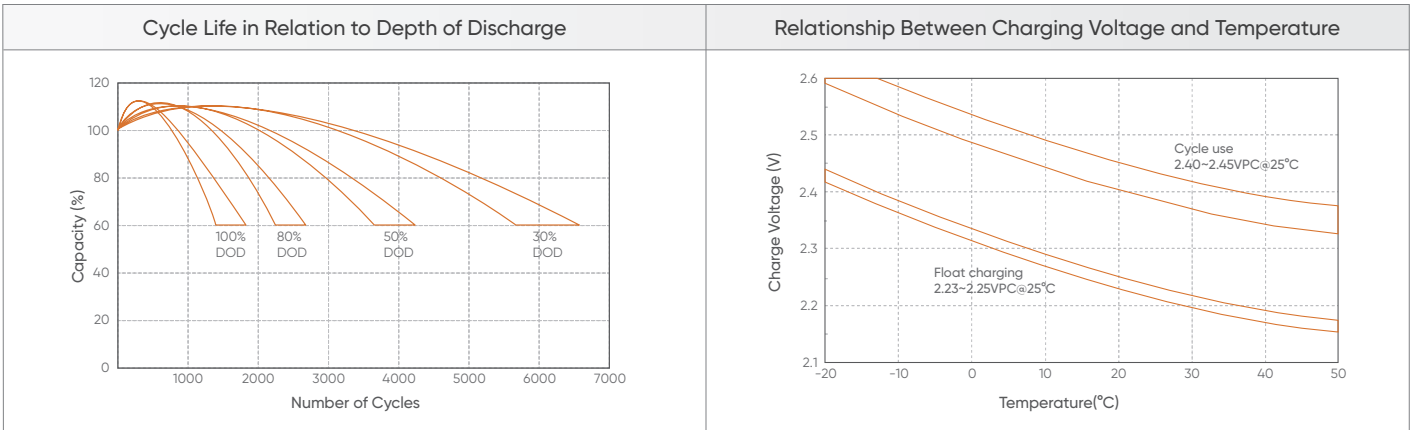
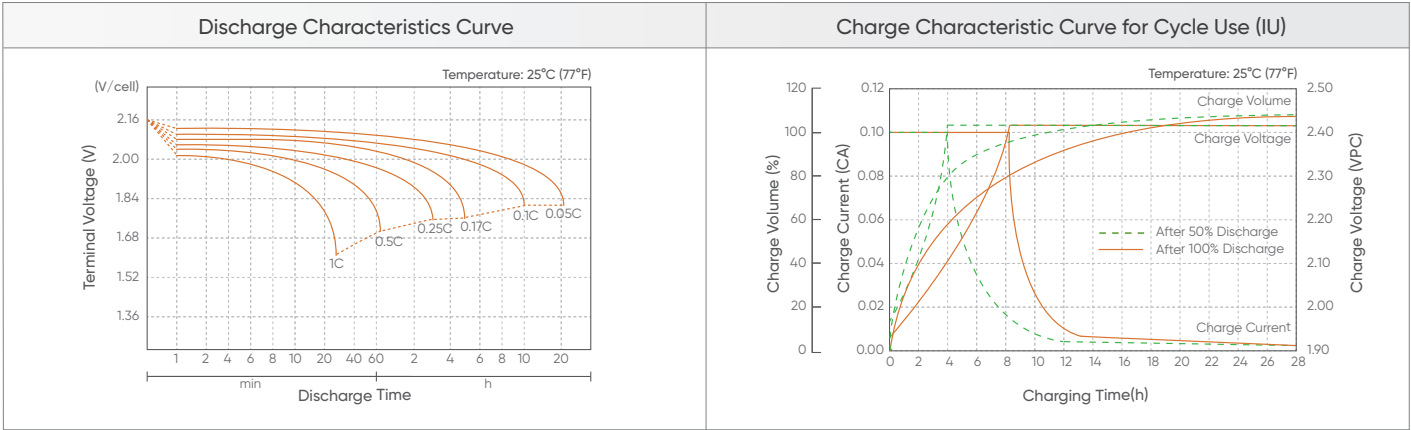
OPzS series is flooded Lead Acid battery that adopts Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to standards of DIN40736-2/IEC60896-11 with positive spine and patent formula of die-casting active material. OPzS series exceeds 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 145±1mm (5.71 inches)</p> <p>Width 206±1mm (8.11 inches)</p> <p>Height 646±1mm (25.4 inches)</p> <p>Total Height 703±1mm (27.7 inches)</p>
Voltage Per Unit	2	
Capacity	600Ah@10hr-rate to 1.85V per cell @25°C	
Weight	Approx. 46.4Kg/34.4Kg (with/without electrolyte)	
Internal Resistance	Approx. 0.45 mΩ	
Terminal	F10(M8)	
Max. Discharge Current	2500A (5 sec)	
Design Life	20 years (floating charge)	
Maximum Charging Current	90 A	
Reference Capacity	C24 718.2AH C48 808.0AH C72 848.4AH C100 867.8AH C120 885.2AH C240 900.0AH	
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	319.3	253.1	178.4	136.0	107.7	95.8	83.79	65.39	56.07	32.25
1.87V	356.9	279.0	191.4	144.8	113.7	101.3	88.83	68.44	58.59	33.69
1.83V	408.8	311.5	207.6	154.9	119.7	105.8	91.98	71.50	61.11	35.14
1.80V	454.2	337.4	215.4	159.4	122.1	108.3	94.50	73.33	63.00	36.22
1.75V	506.1	361.4	225.2	164.5	124.1	110.2	96.39	74.55	64.26	36.94
1.70V	558.1	373.1	231.7	168.4	126.3	112.0	97.65	75.17	64.89	37.32
1.65V	575.6	396.5	239.4	172.6	128.1	113.5	98.91	75.78	65.52	37.68
1.60V	600.2	410.1	248.5	178.4	131.7	115.9	100.2	76.39	66.15	38.04

Constant Power Discharge Characteristics : WPC (25°C)										
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.90V	611.1	485.8	345.0	264.5	210.8	188.2	165.7	130.8	114.3	65.71
1.87V	672.4	527.6	365.9	279.7	222.2	198.7	175.1	136.3	119.2	68.52
1.83V	753.2	575.2	389.3	295.5	233.0	206.9	180.8	141.2	123.4	70.97
1.80V	823.0	613.7	402.4	303.4	237.4	211.4	185.2	144.2	126.5	72.74
1.75V	892.8	641.1	415.4	310.5	240.6	214.5	188.4	146.1	128.3	73.78
1.70V	957.3	647.6	425.9	317.0	244.4	217.4	190.3	147.3	129.6	74.49
1.65V	973.7	676.3	437.6	323.6	247.6	219.8	192.2	148.5	130.2	74.85
1.60V	985.4	697.1	448.0	331.5	253.9	223.7	193.4	149.1	130.8	75.19



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