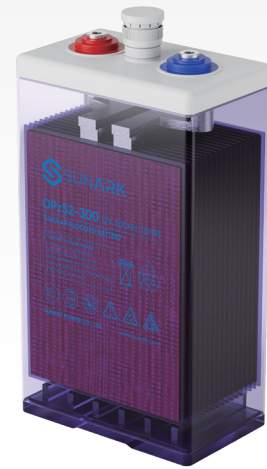


# OPzS2-300

## 2V 300AH

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

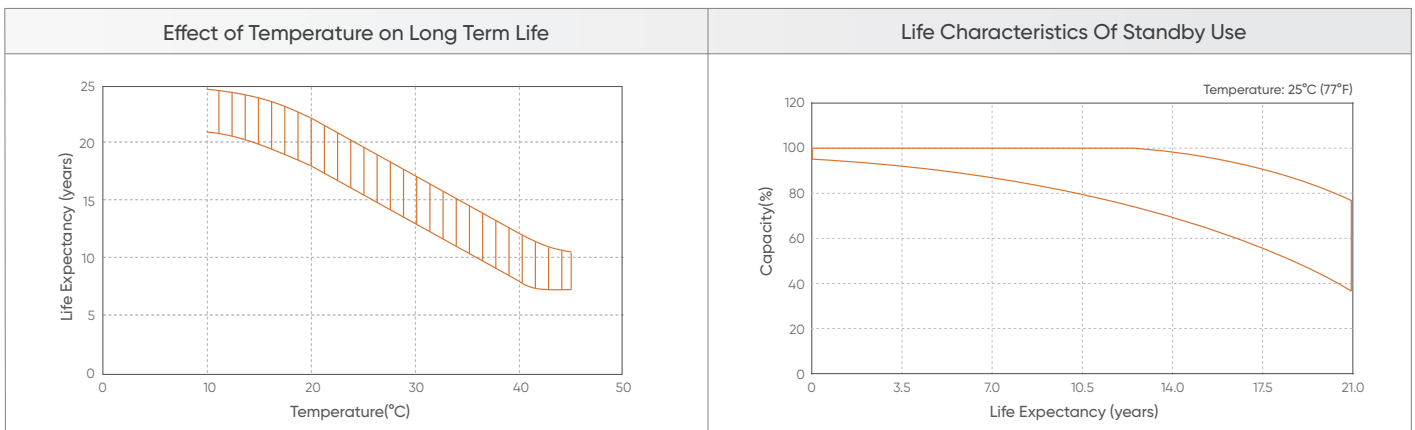
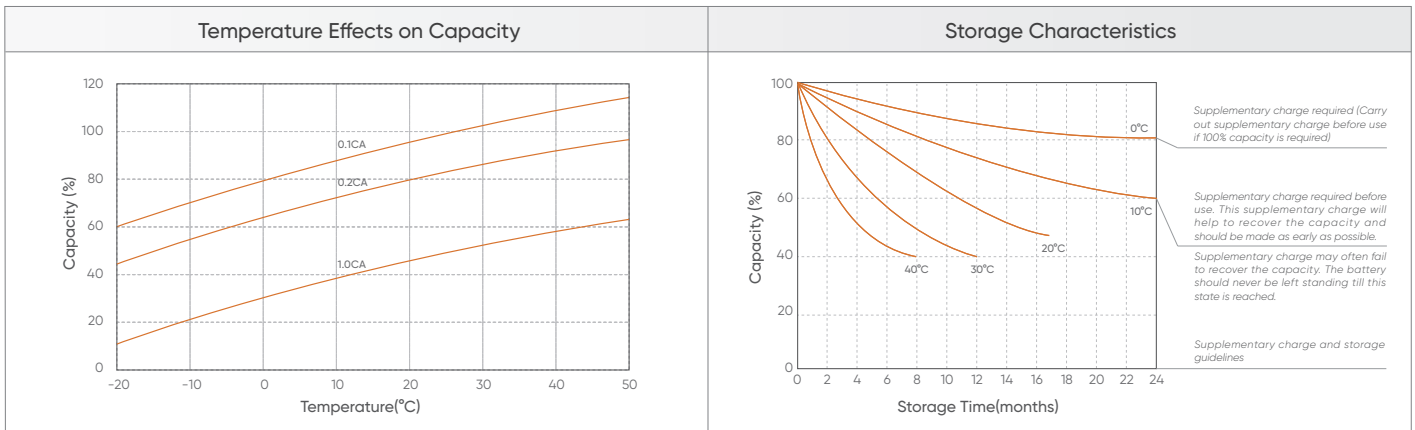
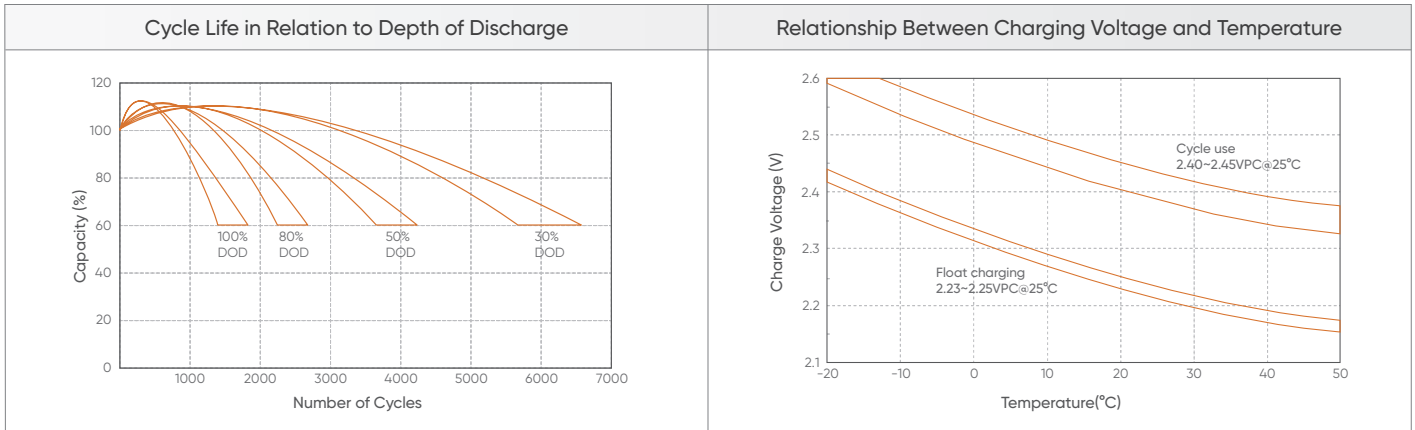
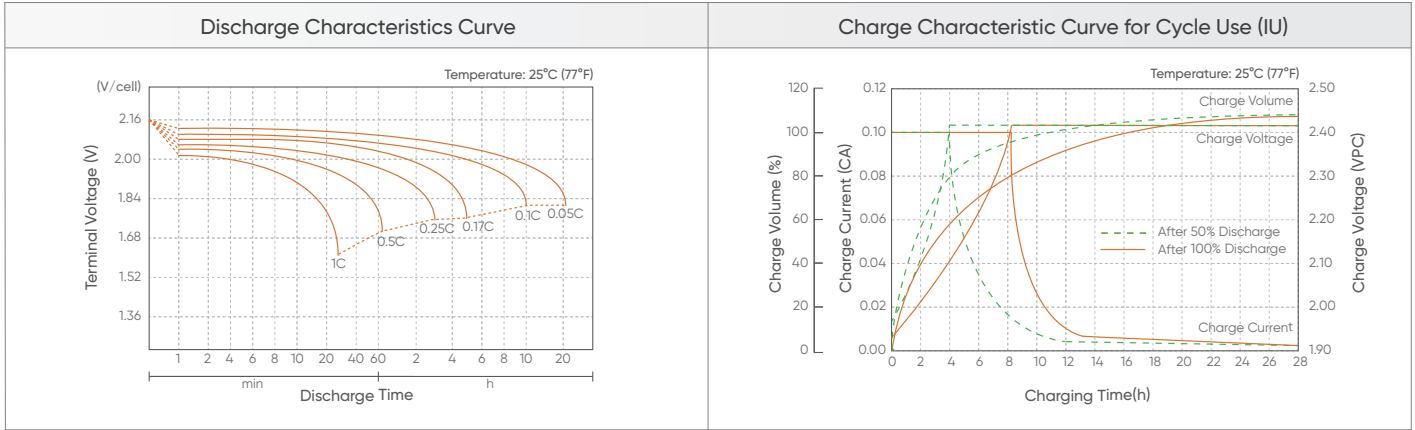
OPzS series is flooded Lead Acid battery that adopts Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to standards of DIN40736-2/IEC60896-11 with positive spine and patent formula of die-casting active material. OPzS series exceeds 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>Height 356±1mm (14.0 inches)</p> <p>Width 206±1mm (8.11 inches)</p> <p>Total Height 413±1mm (16.3 inches)</p>
Voltage Per Unit	2	
Capacity	300Ah@10hr-rate to 1.85V per cell @25°C	
Weight	Approx. 24.5Kg/18.4Kg (with/without electrolyte)	
Internal Resistance	Approx. 0.7 mΩ	
Terminal	F10(M8)	
Max. Discharge Current	1400A (5 sec)	
Design Life	20 years (floating charge)	
Maximum Charging Current	45.0 A	
Reference Capacity	C24 359.1AH C48 404.0AH C72 424.2AH C100 433.9AH C120 442.6AH C240 450.0AH	
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	159.6	126.5	89.22	68.01	53.87	47.88	41.90	32.69	28.04	16.12
1.87V	178.4	139.5	95.71	72.40	56.86	50.64	44.42	34.22	29.30	16.84
1.83V	204.4	155.7	103.8	77.44	59.85	52.92	45.99	35.75	30.56	17.57
1.80V	227.1	168.7	107.7	79.72	61.05	54.15	47.25	36.67	31.50	18.11
1.75V	253.1	180.7	112.6	82.27	62.06	55.12	48.20	37.28	32.13	18.47
1.70V	279.0	186.6	115.8	84.22	63.14	55.98	48.83	37.58	32.45	18.66
1.65V	287.8	198.2	119.7	86.31	64.04	56.75	49.46	37.89	32.76	18.84
1.60V	300.1	205.1	124.3	89.21	65.84	57.96	50.09	38.19	33.08	19.02

Constant Power Discharge Characteristics : WPC (25°C)										
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.90V	305.5	242.9	172.5	132.2	105.4	94.11	82.85	65.39	57.14	32.85
1.87V	336.2	263.8	182.9	139.8	111.1	99.34	87.57	68.14	59.58	34.26
1.83V	376.6	287.6	194.7	147.8	116.5	103.5	90.41	70.58	61.72	35.49
1.80V	411.5	306.8	201.2	151.7	118.7	105.7	92.61	72.11	63.25	36.37
1.75V	446.4	320.5	207.7	155.3	120.3	107.2	94.19	73.03	64.17	36.89
1.70V	478.7	323.8	212.9	158.5	122.2	108.7	95.13	73.64	64.78	37.24
1.65V	486.8	338.1	218.8	161.8	123.8	109.9	96.08	74.25	65.08	37.42
1.60V	492.7	348.6	224.0	165.8	126.9	111.9	96.71	74.55	65.39	37.59



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