

SA12-20

12V 20AH

AGM Valve Regulated Lead Acid Battery

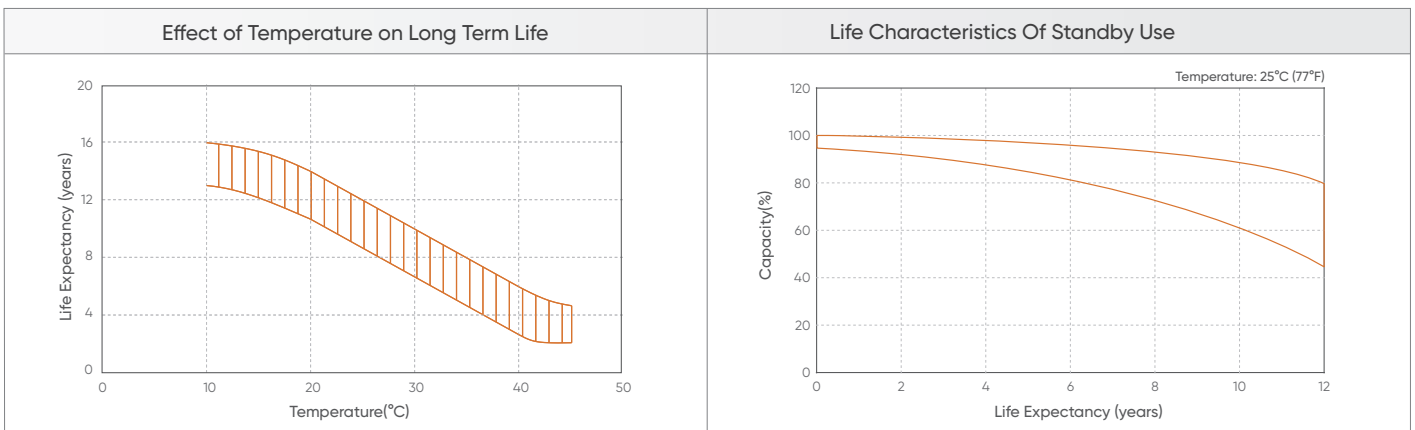
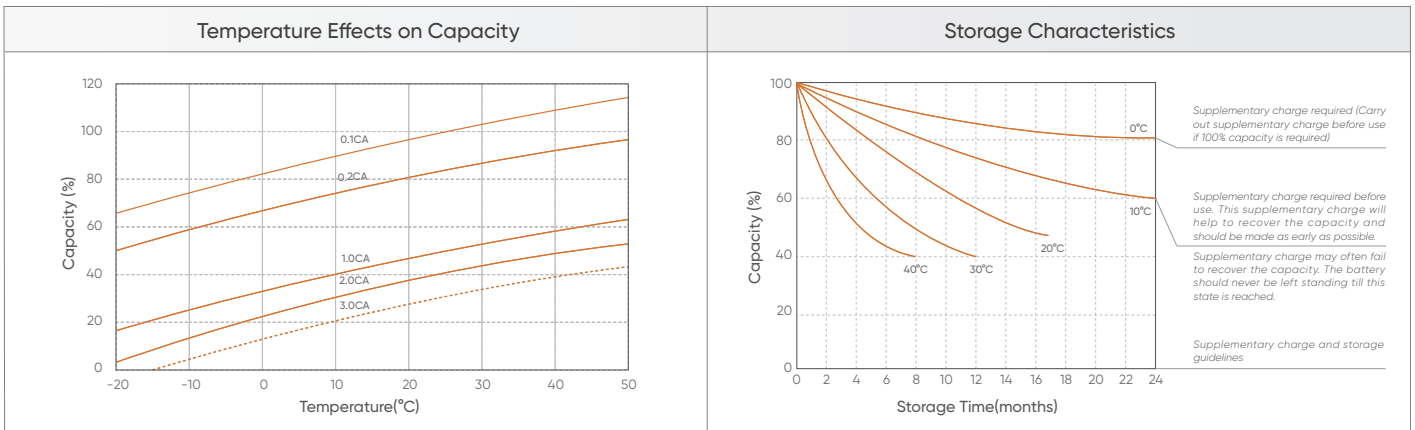
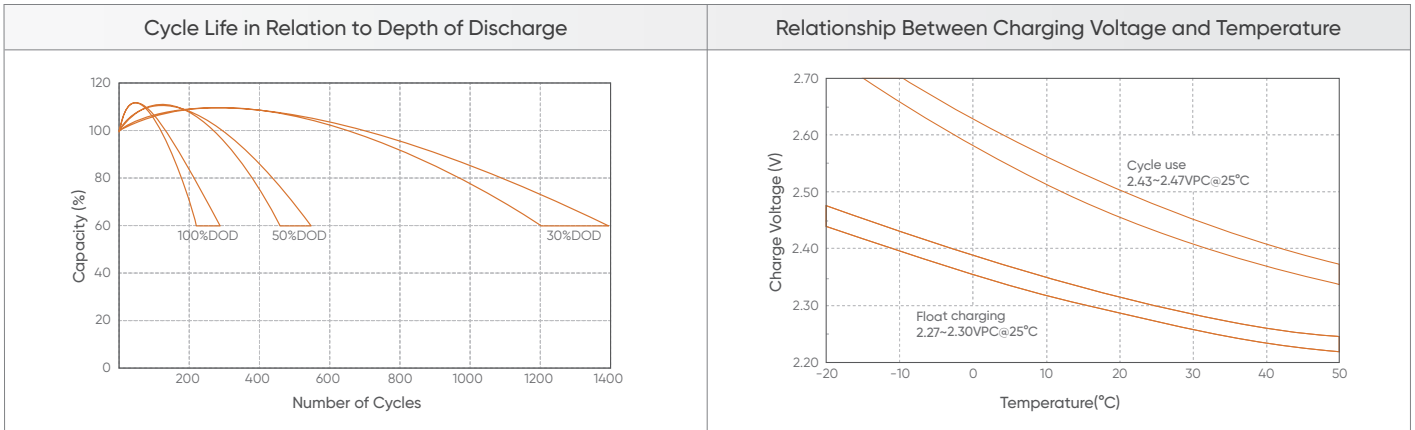
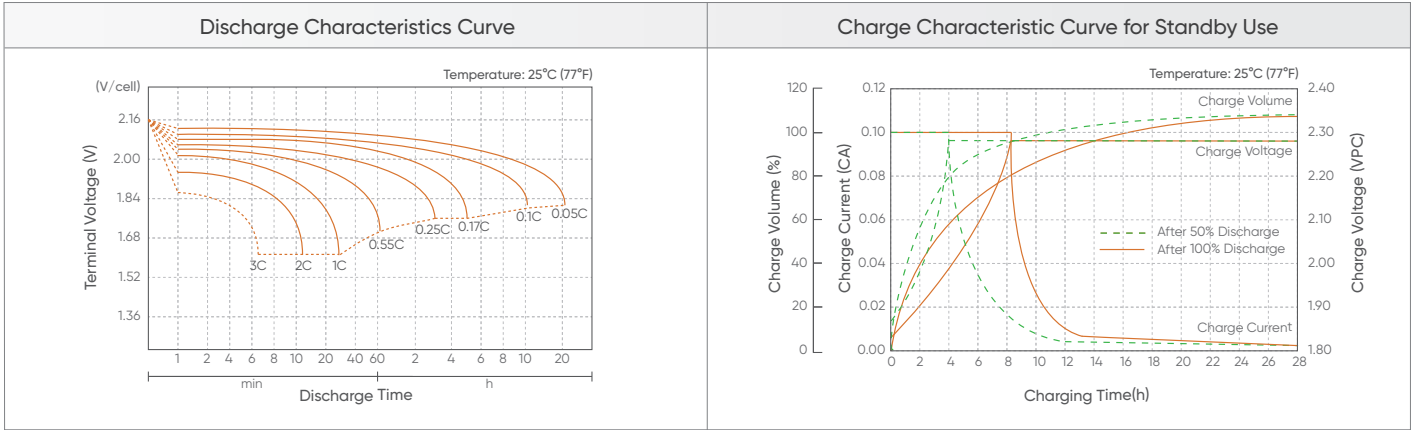
SA series is a general purpose battery with 8 years design life in float service. It meets with IEC, JIS, BS, GB/T and YD/T standards. With advanced AGM valve regulated technology and high purity raw material, the SA series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, telecom, power grid, medical equipment, emergency light and security system applications.



Specification		Dimensions
Cells Per Unit	6	<p>Length 181±2mm (7.13 inches)</p> <p>Width 77±2mm (3.03 inches)</p> <p>Height 167±2mm (6.57 inches)</p> <p>Total Height 167±2mm (6.57 inches)</p> <p>Terminal M5 Value 6-7 N*m</p> <p>Terminal M6 Value 8-10 N*m</p> <p>Terminal M8 Value 10-12 N*m</p>
Voltage Per Unit	12	
Capacity	20Ah@20hr-rate to 1.75V per cell @25°C	
Weight	Approx. 5.4Kg (Tolerance ±3.0%)	
Internal Resistance	Approx. 16mΩ	
Terminal	F3(M5) / F13-BP(M5)	
Max. Discharge Current	200A (5 sec)	
Short Circuit Current	820A	
Design Life	8 years (Float charging)	
Maximum Charging Current	6.0 A	
Reference Capacity	C3 15.5AH C5 17.4AH C10 18.7AH C20 20.0AH	
Standby Use Voltage	13.7V~13.9V @25°C Temperature Compensation: -3mV/°C/Cell	
Cycle Use Voltage	14.6V~14.8V @25°C Temperature Compensation: -4mV/°C/Cell	
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C	
Normal Operating Temperature Range	25°C ± 5°C	
Self Discharge	SunArk Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% 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	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	75.88	53.63	38.77	22.27	12.22	7.503	5.640	4.553	3.773	2.428	1.972	1.041
1.65V	70.56	50.68	37.06	21.38	11.80	7.263	5.466	4.430	3.675	2.401	1.948	1.025
1.70V	63.67	46.65	34.71	20.43	11.42	7.024	5.317	4.310	3.579	2.364	1.919	1.012
1.75V	57.04	42.70	32.30	19.53	11.00	6.778	5.159	4.199	3.489	2.331	1.893	1.000
1.80V	50.09	38.66	29.83	18.67	10.58	6.536	4.999	4.079	3.399	2.291	1.869	0.990
1.85V	39.75	31.59	24.75	16.08	9.488	5.988	4.621	3.791	3.170	2.151	1.760	0.940

Constant Current Discharge Characteristics: A (25°C)												
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	125.8	91.16	67.77	40.44	22.96	14.22	10.77	8.742	7.272	4.742	3.877	2.050
1.65V	118.3	87.80	65.75	39.23	22.30	13.83	10.48	8.537	7.110	4.699	3.835	2.021
1.70V	109.2	82.32	62.51	37.88	21.71	13.45	10.24	8.336	6.949	4.637	3.782	1.999
1.75V	100.0	76.71	59.01	36.58	21.04	13.04	9.981	8.154	6.798	4.582	3.737	1.977
1.80V	89.68	70.65	55.26	35.31	20.36	12.64	9.710	7.948	6.646	4.514	3.694	1.960
1.85V	72.68	58.76	46.51	30.72	18.37	11.64	9.016	7.415	6.218	4.247	3.482	1.863



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