

SA12-18

12V 18AH

AGM Valve Regulated Lead Acid Battery

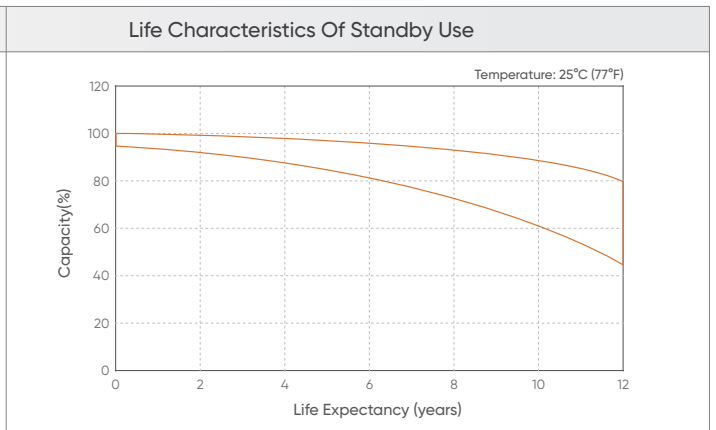
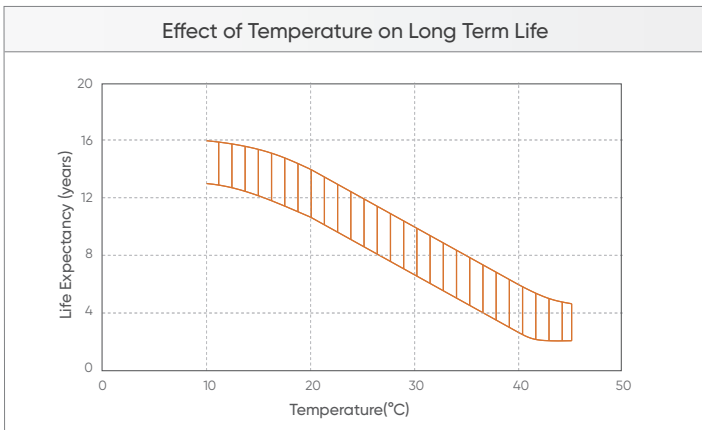
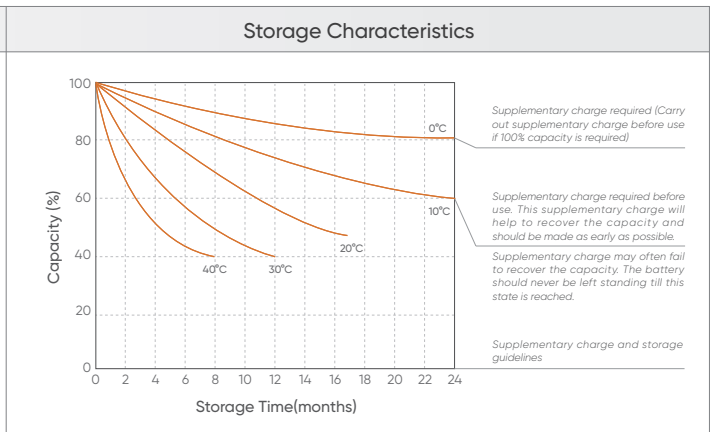
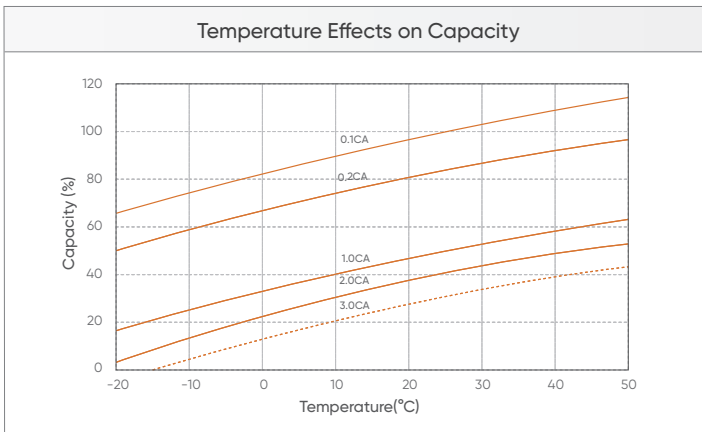
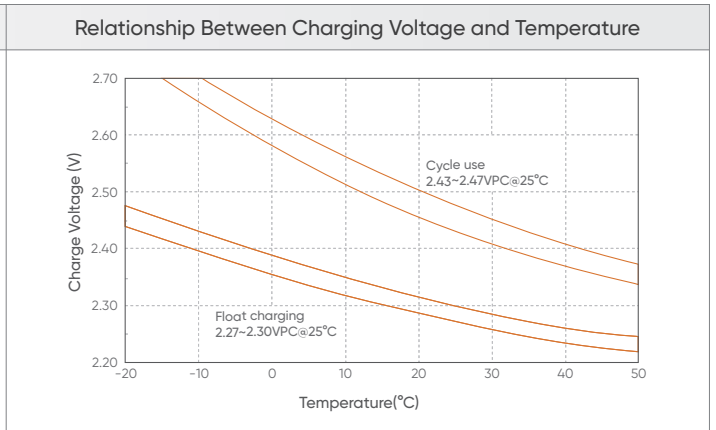
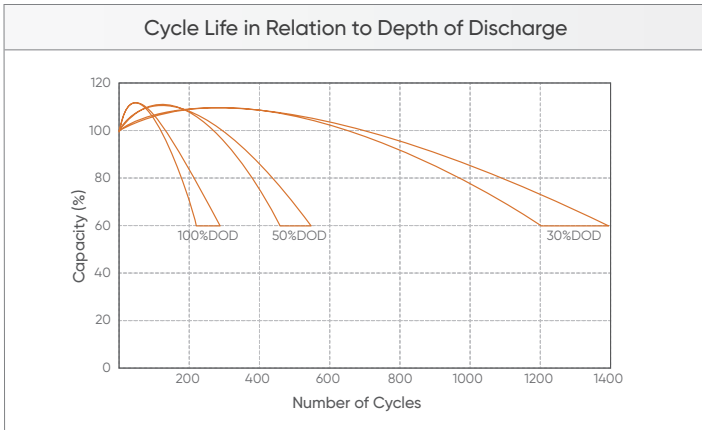
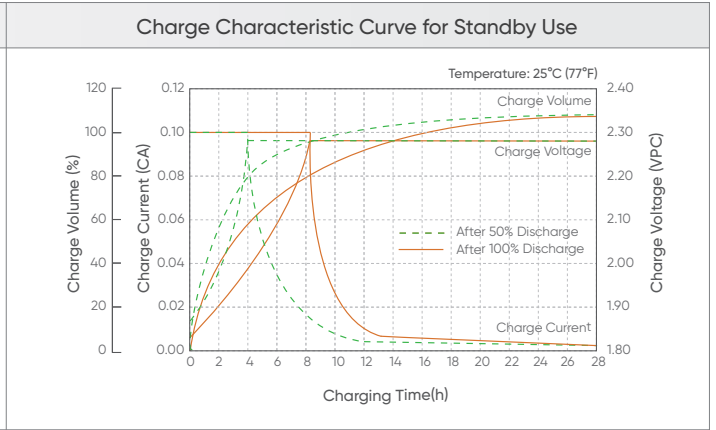
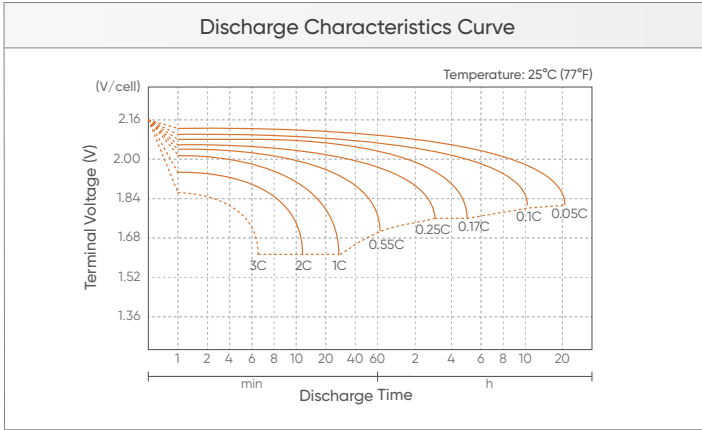
SA series is a general purpose battery with 8 years design life in float service. It meets with IEC, JIS, BS, GB/T and YD/T standards. With advanced AGM valve regulated technology and high purity raw material, the SA series battery maintains high consistency for better performance and reliable standby 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	18Ah@20hr-rate to 1.75V per cell @25°C	
Weight	Approx. 5.0Kg (Tolerance ±3.0%)	
Internal Resistance	Approx. 16mΩ	
Terminal	F3(M5) / F13-BP(M5)	
Max. Discharge Current	180A (5 sec)	
Short Circuit Current	750A	
Design Life	8 years (Float charging)	
Maximum Charging Current	5.4 A	
Reference Capacity	C3 13.9AH C5 15.7AH C10 16.8AH C20 18.0AH	
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	68.29	48.27	34.89	20.04	11.00	6.752	5.076	4.098	3.395	2.185	1.775	0.937
1.65V	63.51	45.61	33.36	19.24	10.62	6.537	4.919	3.987	3.307	2.161	1.753	0.922
1.70V	57.30	41.99	31.24	18.39	10.27	6.321	4.786	3.879	3.221	2.127	1.727	0.911
1.75V	51.34	38.43	29.07	17.58	9.899	6.101	4.643	3.779	3.140	2.098	1.704	0.900
1.80V	45.08	34.79	26.85	16.80	9.521	5.882	4.499	3.671	3.059	2.062	1.682	0.891
1.85V	35.78	28.43	22.28	14.47	8.539	5.390	4.159	3.412	2.853	1.936	1.584	0.846

Constant Current Discharge Characteristics: A (25°C)												
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	113.2	82.04	61.00	36.40	20.67	12.80	9.695	7.868	6.545	4.268	3.489	1.845
1.65V	106.5	79.02	59.18	35.31	20.07	12.45	9.435	7.683	6.399	4.229	3.451	1.819
1.70V	98.27	74.08	56.26	34.09	19.54	12.11	9.220	7.503	6.254	4.173	3.404	1.799
1.75V	90.00	69.04	53.11	32.92	18.94	11.74	8.983	7.338	6.118	4.123	3.363	1.779
1.80V	80.71	63.58	49.73	31.78	18.32	11.37	8.739	7.153	5.981	4.062	3.324	1.764
1.85V	65.41	52.89	41.86	27.64	16.53	10.48	8.115	6.674	5.596	3.823	3.134	1.677



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