

Specially Designed For Solar Applications

Deep cycle Gel Solar Battery

SX series designed for true-deep cycle solar applications, with features like thick, pure virgin lead plates (99.996%), heavy-duty over-the-partition welds, super-C additive and a proprietary gel formulation designed for years of cycling long service life.

SX is well-suited to all deep-cycle off-grid solar power system, from commercial to personal, solar sites.

SX can provide the best and reliable service under extreme conditions such as high temperature and frequent power outages for Solar project .

SX is the highly reliable, safe, and maintenance-free option.



Complied Standards

IEC60896-21/22	BS6290part4
JISC8704	GB/T19638
IEC61427	CE/ISO

Technical Specifications

Nominal Voltage	12V/6V/2V	
Design Floating Life @25°C	20 Years	
Nominal Capacity @25°C(20 hour rate@1.8V)	100%C (Ah)	
Capacity @25°C	10hour rate (1.8V) 90%C (Ah)	
	5 hour rate (1.8V) 80%C(Ah)	
	1 hour rate (1.75V) 58%C(Ah)	
Internal Resistance	Full Charged Battery@25°C ≤0.02*C(mΩ)	
	Discharge	-25°C~60°C
Ambient Temperature	Charge	-25°C~60°C
	Storage	-25°C~45°C
	Max.Discharge Current@25°C	6C (5s)
Capacity affected by Temperature (10 hour)	40°C	108%
	25°C	100%
	0°C	90%
	-15°C	70%
Self-Discharge@25°Cper Month	3%	
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than C*0.25A Voltage 2.25-2.3V
	Cycle Use	Initial Charging Current Less than C*0.25A Voltage 2.37-2.4V



General features

- Able to operate at -40~60°C
- DOD 50% 1500 times Cycles
- Integrated design to ensure the best uniformity and reliability
- Long life and high stability under hightemp. environment (no cooling needed)
- Use super-C additives:
- Deep discharge recovery capability

Battery Construction

Component	Positive plate	Negative plate	Container &Cover	Safety valve
Features	Thick high Sn low Ca grid with Special paste	Balanced Pb-Ca grid for improved recombination efficiency	Fire resistant e ABS (UL94-V0optional)	Flame Si-Rubber and aging resistance
Component	Terminal	Separator	Electrolyte	Pillar seal
Features	Female Copper Insert T/AP/DP	Advanced PVC/AGM separator for high pressure cell design	German Evonik Silicon GEL	Two layers epoxy resin seal



SM12 12V Solar Battery Items specifications

Model	Nominal Voltage (V)	Capacity (Ah)	Dimension (mm)				Net Weight kgs	Gross Weight kgs	Terminal
			Length	Width	Height	Total Height			
SX12-14	12	14	152	99	96	102	3.8	3.9	F1/F2
SX12-20	12	20	181	77	167	167	6	6.1	T1/L1
SX12-24	12	24	166	175	126	126	8.3	8.4	M6
SX12-26	12	26	165	126	174	179	8.4	8.5	M6
SX12-35	12	35	196	130	155	167	10.5	10.7	M6
SX12-40	12	40	198	166	174	174	14.2	14.4	M6
SX12-55	12	55	229	138	208	212	16	16.5	M6
SX12-70	12	70	350	167	178	178	23.3	23.8	M6
SX12-75	12	75	260	169	208	227	25	25.5	M6
SX12-85	12	85	260	169	208	227	26.1	26.6	M6
SX12-90	12	90	307	169	211	216	28.2	28.7	M6
SX12-100	12	100	307	169	211	216	30.2	30.7	M6
SX12-110	12	110	328	172	218	222	33.5	34	M8
SX12-120	12	120	407	173	210	233	39.2	39.7	M8
SX12-135	12	135	344	172	280	285	40.8	41.3	M8
SX12-150	12	150	484	171	241	241	45.5	46	M8
SX12-180	12	180	532	206	216	222	56	56.5	M8
SX12-200	12	200	532	206	216	222	58.6	59.1	M8
SX12-230	12	230	522	240	219	225	65	65.5	M8
SX12-250	12	250	520	269	203	207	71	71.5	M8
SX12-300	12	300	520	269	220	226	77	77.5	M8



SM6 6V Solar Battery Items specifications

Model	Nominal Voltage (V)	Capacity (Ah)	Dimension (mm)				Net Weight kgs	Gross Weight kgs	Terminal
			Length	Width	Height	Total Height			
SX6-200	6	200	306	168	220	222	30	30.1	M8
SX6-210	6	210	260	180	247	249	29.5	29.6	M8
SX6-220	6	220	306	168	220	222	31.5	31.6	M8
SX6-225	6	225	243	187	275	275	30.5	30.6	M8
SX6-250	6	250	260	180	265	272	34.5	34.6	M8
SX6-310	6	310	295	178	346	366	46	46.2	M8
SX6-330	6	330	295	178	354	360	46.6	46.8	M8
SX6-380	6	380	295	178	404	410	55.3	55.8	M8
SX6-420	6	420	295	178	404	410	56.8	57.3	M8
SX8-170	8	170	260	182	266	271	34.3	34.8	M8
SX8-200	8	170	260	182	295	300	38.3	38.8	M8

SM2 2V Solar Battery Items specifications

Model	Nominal Voltage (V)	Capacity (Ah)	Dimension (mm)				Net Weight kgs	Gross Weight kgs	Terminal
			Length	Width	Height	Total Height			
SX2-200	2	200/10HR	170	106	330	367	13.2	13.4	M8
SX2-300	2	300/10HR	171	151	330	365	18.7	18.9	M8
SX2-400	2	400/10HR	211	176	329	367	26.3	26.5	M8
SX2-500	2	500/10HR	241	172	330	364	31.2	31.4	M8
SX2-600	2	600/10HR	301	175	331	366	37.9	38.2	M8
SX2-800	2	800/10HR	410	176	330	365	51.8	52.1	M8
SX2-1000	2	1000/10HR	475	175	328	365	62.5	62.8	M8
SX2-1200	2	1200/10HR	472	172	338	355	69	69.3	M8
SX2-1500	2	1500/10HR	401	351	342	378	97	97.5	M8
SX2-2000	2	2000/10HR	491	351	343	383	130.5	131	M8
SX2-2500	2	2500/10HR	712	353	341	382	180.5	181	M8
SX2-3000	2	3000/10HR	712	353	341	382	190.5	191	M8



Performance Characteristics

