

Solar Battery SX2-1000 2V 1000Ah



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.

Long Life

GEL Technology

Deep Cycle



COMPLIED STANDARDS
IEC 60896-21/22 JIS C8704
IEC61427 BS6290 part4
GB/T 19638 CE/ISO

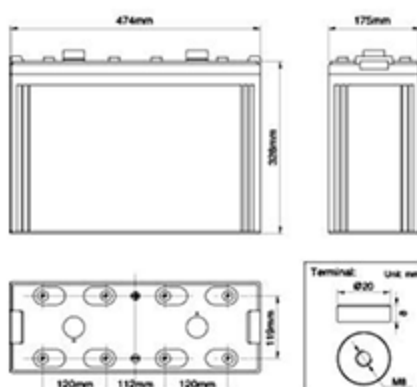


General Features

- 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 high temp. environment (no air-con needed)
- Use super-C additives: Deep discharge recovery capability

Dimensions & Weight

Length(mm/inch)	475/18.7
Width(mm/inch)	175/6.89
Height(mm/inch)	328/13
Total Height(mm/inch)	365/14.4
Weight(kg/lbs)	62.5/137.8



Technical Specifications

Nominal Voltage		2V(Single Cell)
Design Floating Life @25°C		20 Years
Nominal Capacity @25°C(10 hour rate@100.0A,1.8V)		1000Ah
Capacity @25°C	20hour rate (53A,1.8V)	1060Ah
	5 hour rate (177A,1.75V)	885Ah
	1 hour rate (605A,1.6V)	605Ah
Internal Resistance	Full Charged Battery@25°C	≤0.19mΩ
Ambient Temperature	Discharge	-20°C~60°C
	Charge	-10°C~60°C
	Storage	-20°C~60°C
Max.Discharge Current@25°C		2000A(5s)
Capacity affected by Temperature (10 hour)	40°C	102%
	25°C	100%
	0°C	90%
	-15°C	70%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 150A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 150A Voltage 2.33-2.37V

Battery Discharge Table

Discharge Constant Current per Cell (Amperes at 25° C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	2794	1804	1496	990	737	605	385	275	187	123	110.0	58.3
1.65V	2743	1771	1469	972	724	594	378	270	184	121	108.0	57.2
1.70V	2692	1738	1442	954	710	583	371	265	180	119	106.0	56.2
1.75V	2642	1706	1414	936	697	572	364	260	177	116	104.0	55.1
1.80V	2540	1640	1360	900	670	550	350	250	170	112	100.0	53.0

Discharge Constant Power per Cell (Watts at 25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	5378	3473	2880	1906	1419	1165	741	529	360	237	211.8	112.2
1.65V	5281	3410	2827	1871	1393	1143	728	520	353	233	207.9	110.2
1.70V	5183	3346	2775	1836	1367	1122	714	510	347	229	204.1	108.1
1.75V	5085	3283	2723	1802	1341	1101	701	501	340	224	200.2	106.1
1.80V	4890	3157	2618	1733	1290	1059	674	481	327	216	192.5	102.0

Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CSBattery** for the latest information.

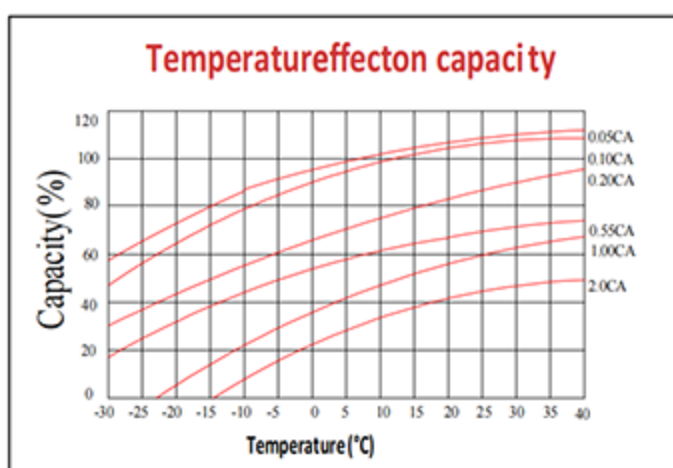
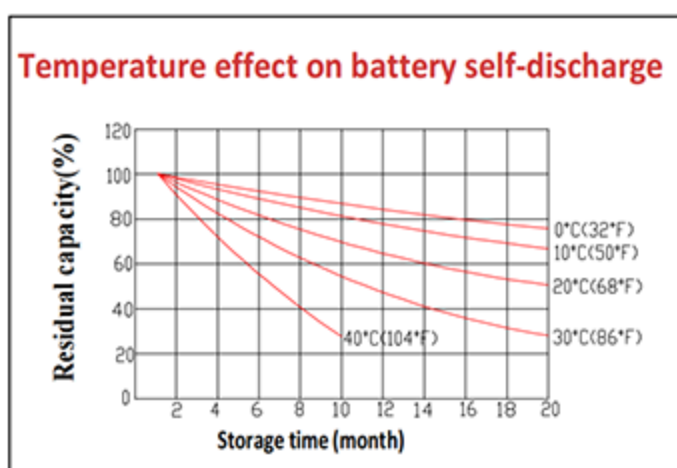
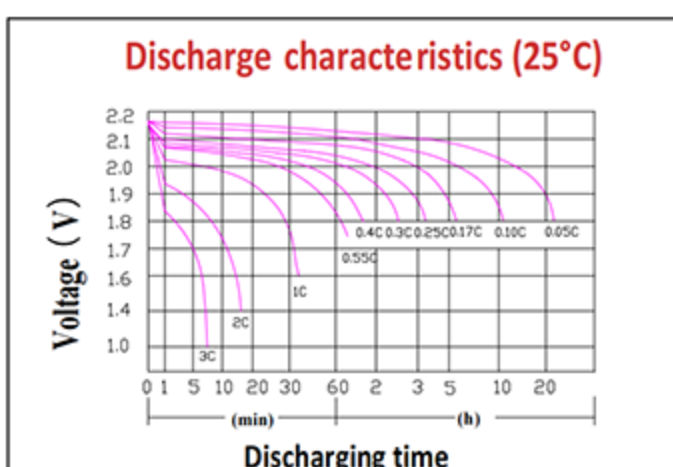
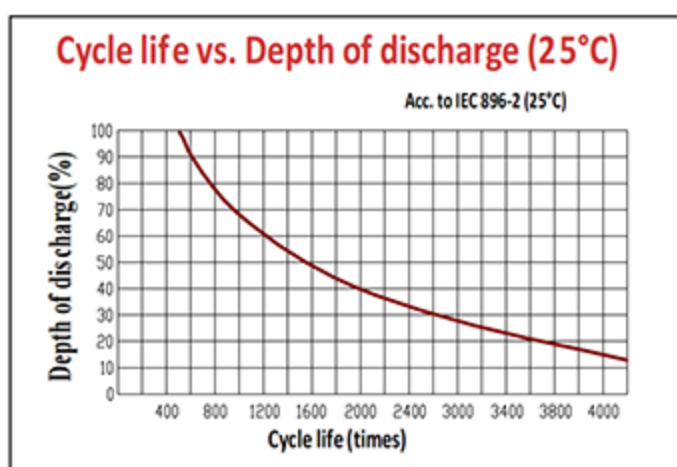
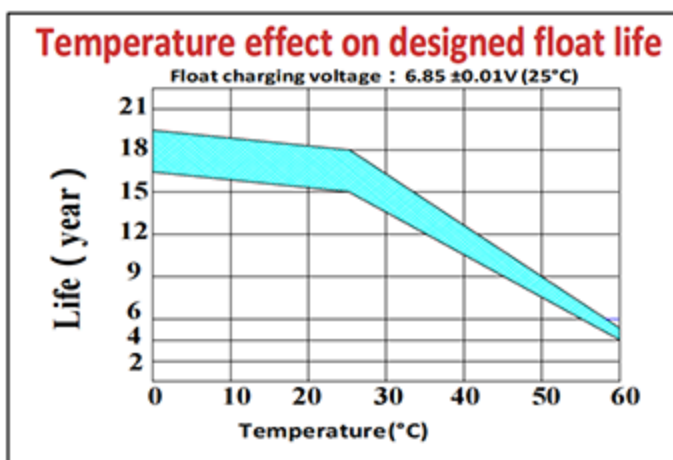
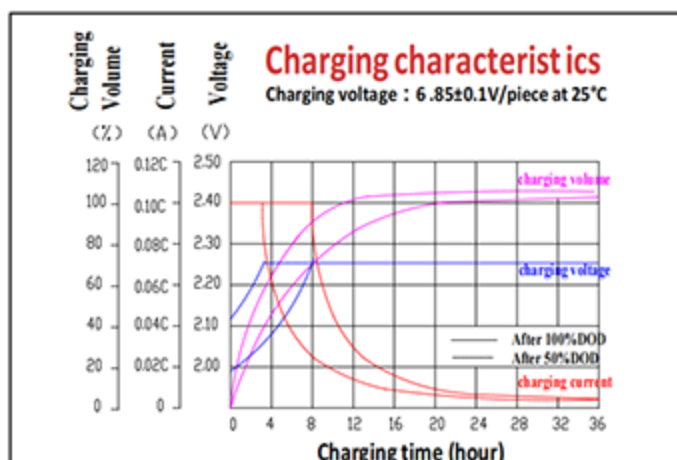
Durable Battery Choose CSBattery

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Performance Characteristics



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	Advanced PVC /AGM separator for high pressure cell design	German Evonik Silicon GEL	Two layers epoxy resin seal

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