

# Solar Battery SX2-500 2V 500Ah



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

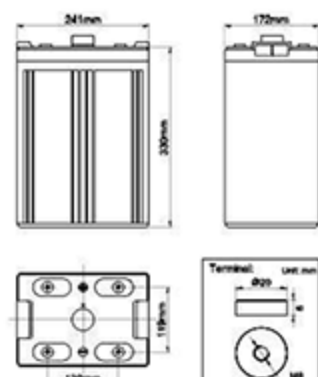


## General Features

- 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)	241/9.49
Width(mm/inch)	171/6.74
Height(mm/inch)	330/13
Total Height(mm/inch)	366/14.4
Weight(kg/lbs)	31.5/69.5



## Technical Specifications

Nominal Voltage		2V(Single Cell)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C(10 hour rate@50.0A,1.8V)		500Ah
Capacity @25°C	20hour rate (26.5A,1.8V)	530Ah
	5 hour rate (88A,1.75V)	440Ah
	1 hour rate (303A,1.6V)	303Ah
Internal Resistance	Full Charged Battery@25°C	≤0.31mΩ
Ambient Temperature	Discharge	-20°C~60°C
	Charge	-10°C~60°C
	Storage	-20°C~60°C
Max.Discharge Current@25°C		1000A(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 75A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 75A 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	1397	902	748	495	369	303	193	138	94	62	55.0	29.2
1.65V	1372	886	734	486	362	297	189	135	92	60	54.0	28.6
1.70V	1346	869	721	477	355	292	186	133	90	59	53.0	28.1
1.75V	1321	853	707	468	348	286	182	130	88	58	52.0	27.6
1.80V	1270	820	680	450	335	275	175	125	85	56	50.0	26.5

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	2689	1736	1440	953	709	582	371	265	180	119	105.9	56.1
1.65V	2640	1705	1414	936	696	572	364	260	177	116	104.0	55.1
1.70V	2591	1673	1388	918	684	561	357	255	173	114	102.0	54.1
1.75V	2543	1642	1361	901	671	551	350	250	170	112	100.1	53.1
1.80V	2445	1579	1309	866	645	529	337	241	164	108	96.3	51.0

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.

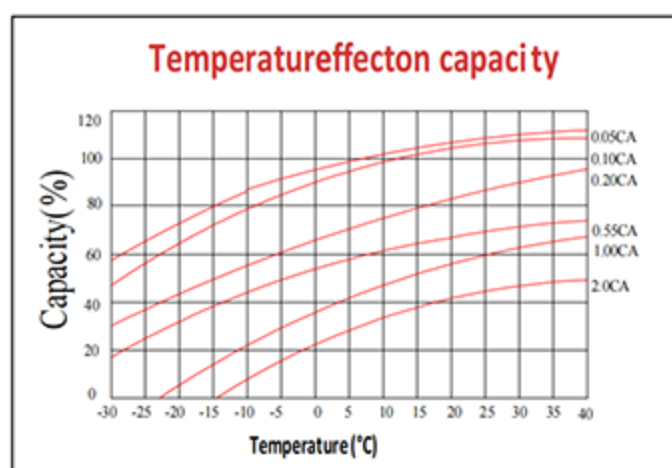
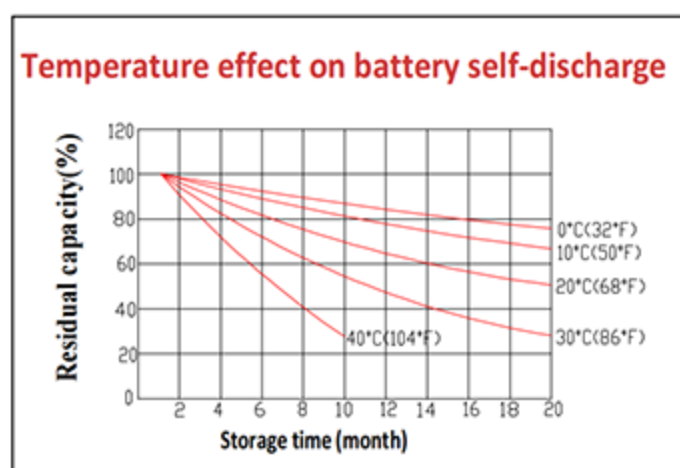
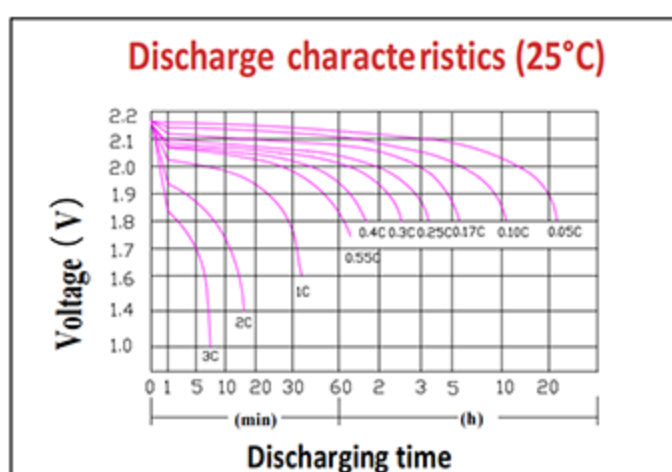
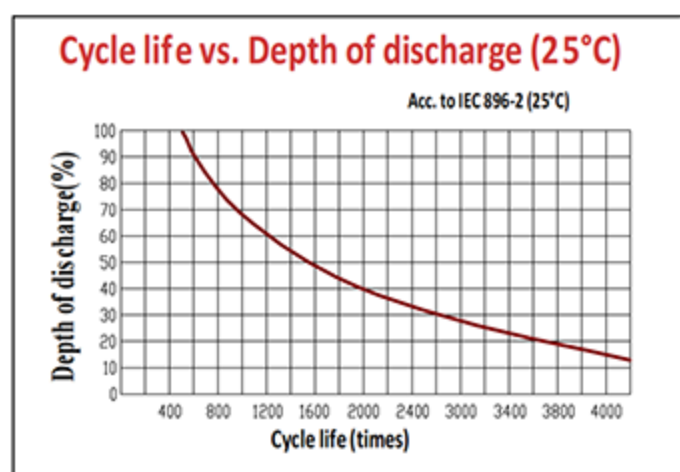
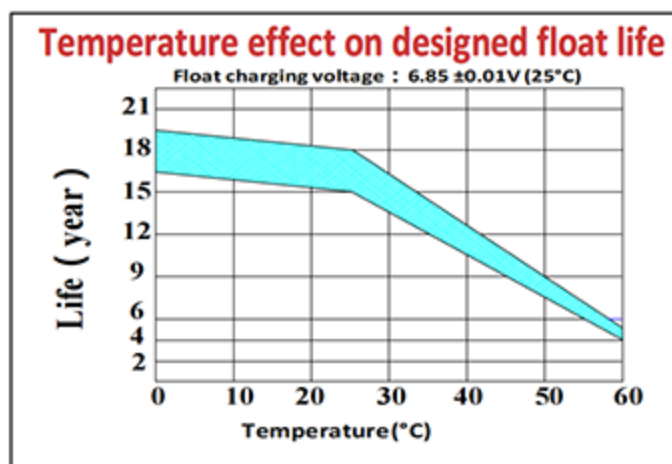
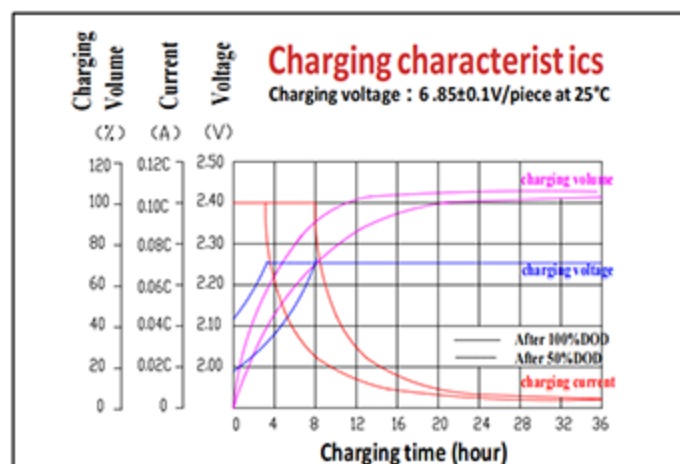
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## Performance Characteristics



## Battery Construction

<b>Component</b>	<b>Positive plate</b>	<b>Negative plate</b>	<b>Container &amp; Cover</b>	<b>Safety valve</b>
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
<b>Component</b>	<b>Terminal</b>	<b>Separator</b>	<b>Electrolyte</b>	<b>Pillar seal</b>
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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