Solar Battery SX6-330 6V 330Ah

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*

General Features

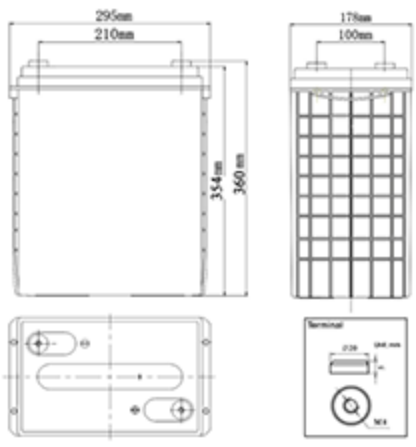
- Able to operate at 40-60°C
- DOD 50% 1500 times Cycles
- Integrated design to ensure the best Uniformity and reliability
- Long life and high stability under high temp. environment (no air-con needed)
- Use super-C additives: Deep discharge recovery capability

COMPLIED STANDARDS

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

Dimensions & Weight

Length (mm)	295±1
Width (mm)	178±1
Height (mm)	354±1
Total Height (mm)	360±1
Weight (kg)	46.8±3%



Technical Specifications

Nominal Voltage		6V (3 cells per unit)
Design Floating Life @25℃		20 Years
Nominal Capacity @25℃ (20 hour rate@16.5A, 5.4V)		330Ah
Capacity @25℃	10 hour rate (29.7A, 5.4V)	297Ah
	5 hour rate (52.5A, 5.25V)	262.5Ah
	1 hour rate (183.3A, 4.8V)	183.3Ah
Internal Resistance	Full Charged Battery@25℃	≤1.6mΩ
Ambient Temperature	Discharge	-25℃~60℃
	Charge	-25℃~60℃
	Storage	-25℃~60℃
Max.Discharge Current@25℃		1000A(5s)
Capacity affected by Temperature (10 hour)	40℃	108%
	25℃	100%
	0℃	90%
	-15℃	70%
Self-Discharge@25℃ per Month		3%
Charge (Constant Voltage) @25℃	Standby Use	Initial Charging Current Less than 66A Voltage 6.8-6.9V
	Cycle Use	Initial Charging Current Less than 66A Voltage 7.2-7.45V

Battery Discharge Table

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	424.7	270.4	199.7	183.3	116.3	81.7	55.5	36.7	32.7	17.8	3.96
1.65V	417.0	265.5	196.0	180.0	114.2	80.2	54.5	36.0	32.1	17.5	3.88
1.70V	409.3	260.6	192.4	176.6	112.1	78.7	53.5	35.3	31.5	17.1	3.81
1.75V	401.5	255.7	188.8	173.3	110.0	77.2	52.5	34.7	30.9	16.8	3.74
1.80V	386.1	245.9	181.5	166.7	105.8	74.3	50.5	33.3	29.7	16.5	3.66

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

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	817.6	520.6	384.3	352.9	224.0	157.2	106.9	70.6	62.9	34.3	7.62
1.65V	802.7	511.1	377.3	346.5	219.9	154.4	105.0	69.3	61.7	33.7	7.47
1.70V	787.8	501.7	370.4	340.0	215.8	151.5	103.0	68.0	60.6	33.0	7.33
1.75V	773.0	492.2	363.4	333.6	211.7	148.6	101.1	66.7	59.5	32.4	7.19
1.80V	743.2	473.3	349.4	320.8	203.6	142.9	97.2	64.2	57.2	31.8	7.05

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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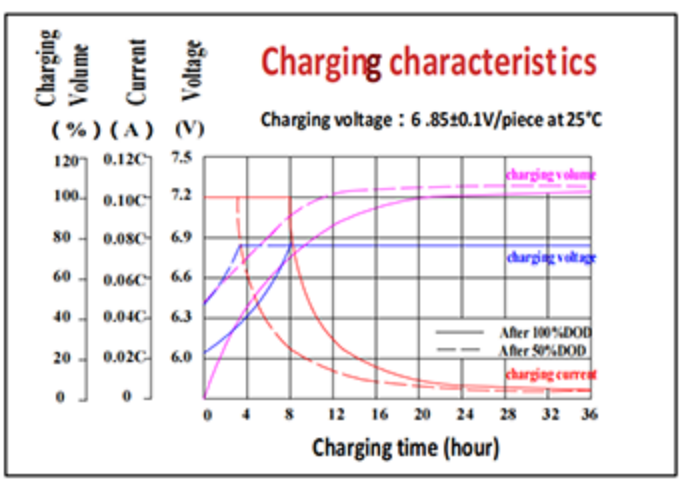
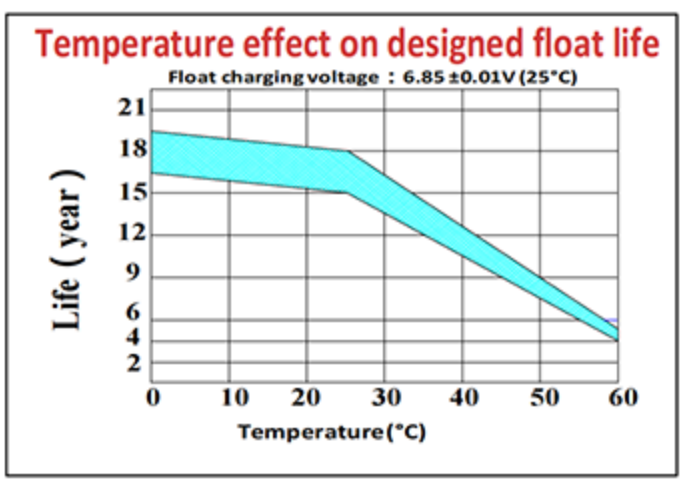
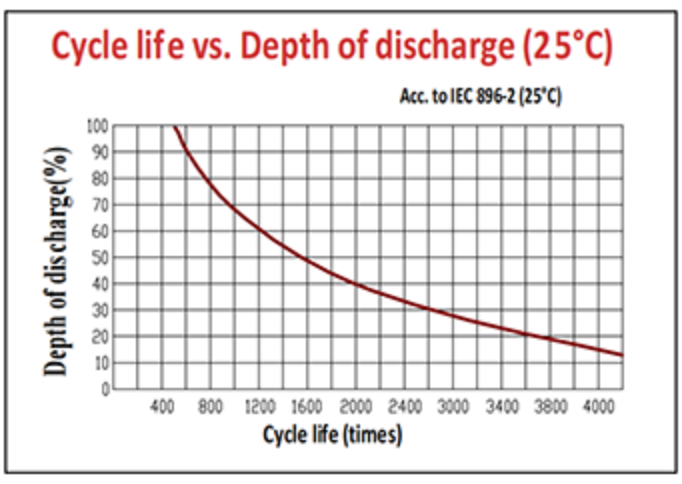
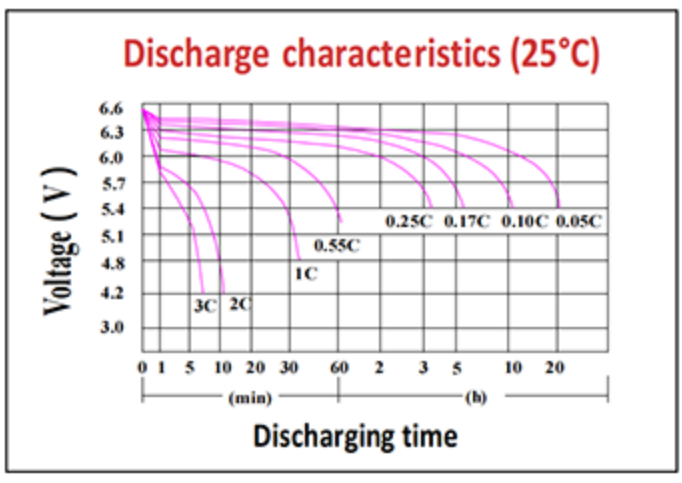
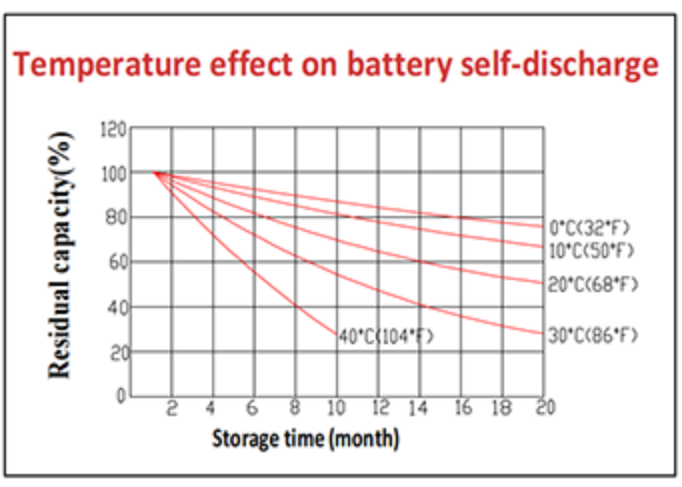
Performance Characteristics

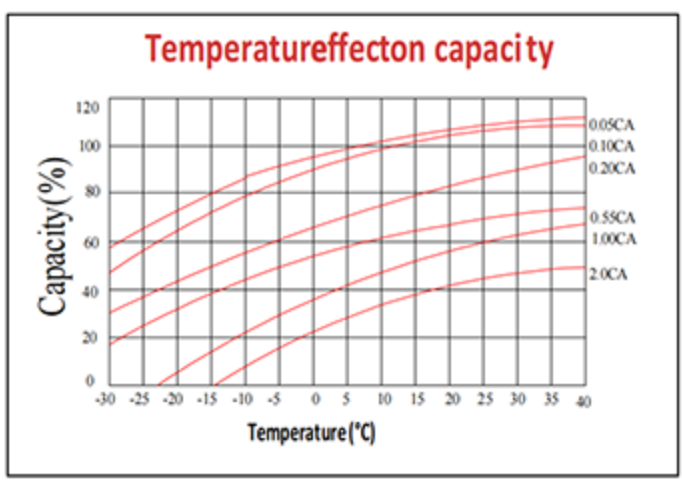












Battery Construction

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 recombinati on efficiency	Fire resistanc e ABS (UL94-V0octional)	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

Add: Building Evolution, Xingdong industry Park, NO.61, Liuxian 2nd Road, Baoan, Shenzhen, China.
Tel: +86-755-29123661 Email: Sales@CSBattery.cn , Support@CSBattery.cn
Website: www.CSBattery.cn

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