

# Solar Battery SX6-220 6V 220Ah

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

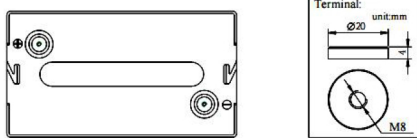
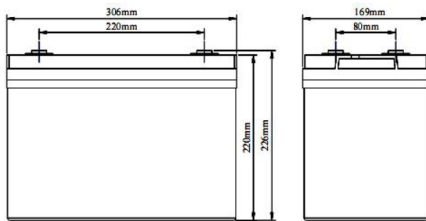


## COMPLIED STANDARDS

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

## Dimensions & Weight

Length (mm)	306±1
Width (mm)	168±1
Height (mm)	220±1
Total Height (mm)	225±1
Weight (kg)	31.6±3%



## Technical Specifications

Nominal Voltage		6V (3 cells per unit)
Design Floating Life @25°C		20 Years
Nominal Capacity @25°C (20 hour rate@11.0A, 5.4V)		220Ah
Capacity @25°C	10hour rate (19.8A, 5.4V)	198Ah
	5 hour rate (35.0A, 5.25V)	175Ah
	1 hour rate (127.1A, 4.8V)	127.1Ah
Internal Resistance	Full Charged Battery@25°C	≤2.7mΩ
Ambient Temperature	Discharge	-25°C~60°C
	Charge	-25°C~60°C
	Storage	-25°C~60°C
Max.Discharge Current@25°C		660A(5s)
Capacity affected by Temperature (10 hour )	40°C	108%
	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 44A Voltage 6.8-6.9V
	Cycle Use	Initial Charging Current Less than 44A 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	343.6	204.5	145.2	127.1	77.6	54.5	37.0	24.4	21.8	11.9	2.64
1.65V	337.4	200.8	142.6	124.7	76.2	53.5	36.4	24.0	21.4	11.7	2.59
1.70V	331.1	197.1	139.9	122.4	74.7	52.5	35.7	23.6	21.0	11.4	2.54
1.75V	324.9	193.3	137.3	120.1	73.3	51.5	35.0	23.1	20.6	11.2	2.49
1.80V	312.4	185.9	132.0	115.5	70.5	49.5	33.7	22.2	19.8	11.0	2.44

### 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	661.5	393.6	279.5	244.6	149.3	104.8	71.3	47.1	41.9	22.9	5.08
1.65V	649.5	386.5	274.4	240.1	146.6	102.9	70.0	46.2	41.2	22.4	4.98
1.70V	637.5	379.3	269.3	235.7	143.9	101.0	68.7	45.3	40.4	22.0	4.89
1.75V	625.4	372.2	264.3	231.2	141.2	99.1	67.4	44.5	39.6	21.6	4.79
1.80V	601.4	357.9	254.1	222.3	135.7	95.3	64.8	42.8	38.1	21.2	4.70

**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.