

# Solar Battery SX12-110 12V 110Ah



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

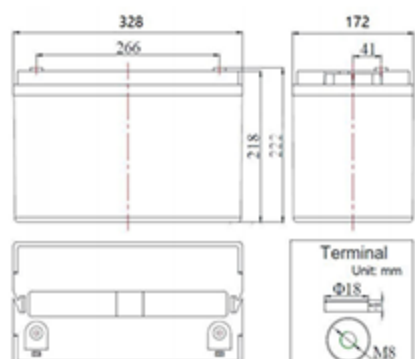


## General Features

- 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

## Dimensions & Weight

Length(mm)	328±1
Width(mm)	172±1
Height(mm)	218±1
Total Height(mm)	222±1
Weight(kg)	33.5±3%



## Technical Specifications

Nominal Voltage		12V (6 cells per unit)
Design Floating Life @25°C		20 Years
Nominal Capacity @25°C(20 hour rate@5.5A,10.8V)		110Ah
Capacity @25°C	10hour rate (9.9A,10.8V)	99Ah
	5 hour rate (17.5A,10.5V)	87.5Ah
	1 hour rate (67.2A,9.6V)	67.2Ah
Internal Resistance	Full Charged Battery@25°C	≤5.0mΩ
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 25A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 25A Voltage 14.4-14.9V

## 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	177.9	108.3	72.6	67.2	38.8	27.2	18.5	12.2	10.9	5.94	1.32
1.65V	174.6	106.3	71.3	65.9	38.1	26.7	18.2	12.0	10.7	5.83	1.29
1.70V	171.4	104.4	70.0	64.7	37.4	26.2	17.8	11.8	10.5	5.72	1.27
1.75V	168.2	102.4	68.6	63.5	36.7	25.7	17.5	11.6	10.3	5.61	1.25
1.80V	161.7	98.5	66.0	61.1	35.3	24.8	16.8	11.1	9.9	5.50	1.22

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	342.4	208.5	139.8	129.3	74.7	52.4	35.6	23.5	21.0	11.4	2.54
1.65V	336.2	204.7	137.2	126.9	73.3	51.5	35.0	23.1	20.6	11.2	2.49
1.70V	329.9	200.9	134.7	124.6	71.9	50.5	34.3	22.7	20.2	11.0	2.44
1.75V	323.7	197.1	132.1	122.2	70.6	49.5	33.7	22.2	19.8	10.8	2.40
1.80V	311.3	189.5	127.1	117.5	67.9	47.6	32.4	21.4	19.1	10.6	2.35

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.

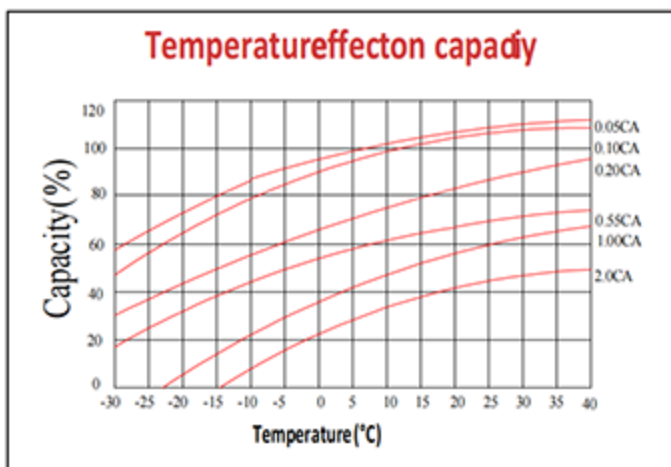
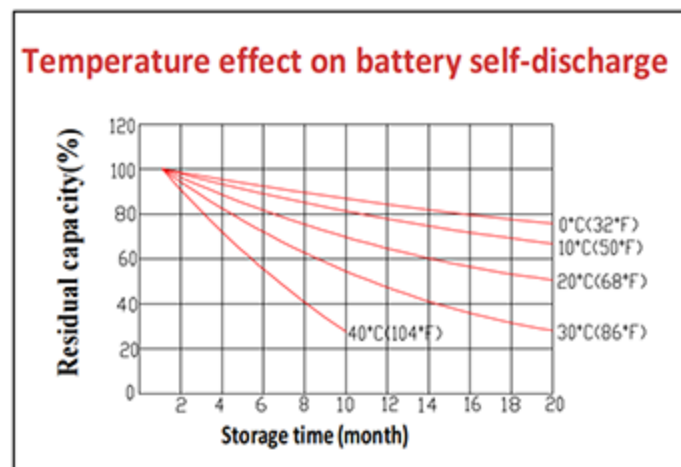
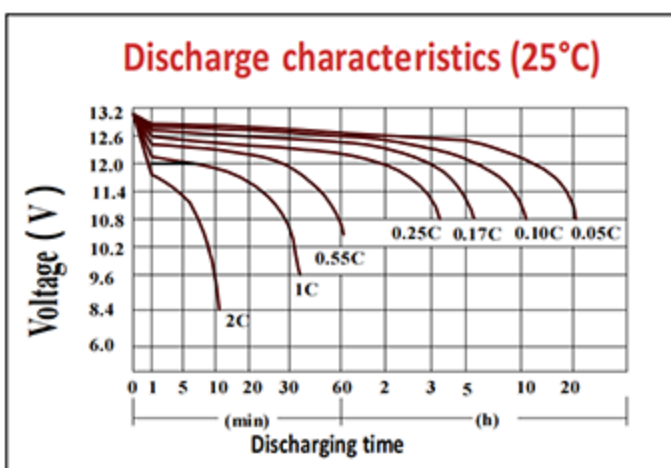
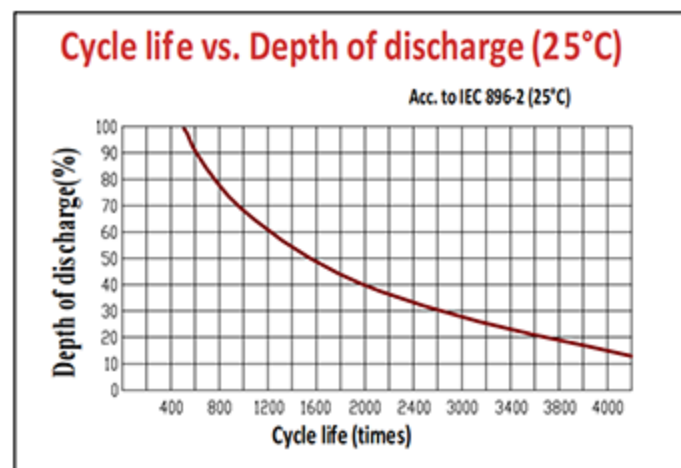
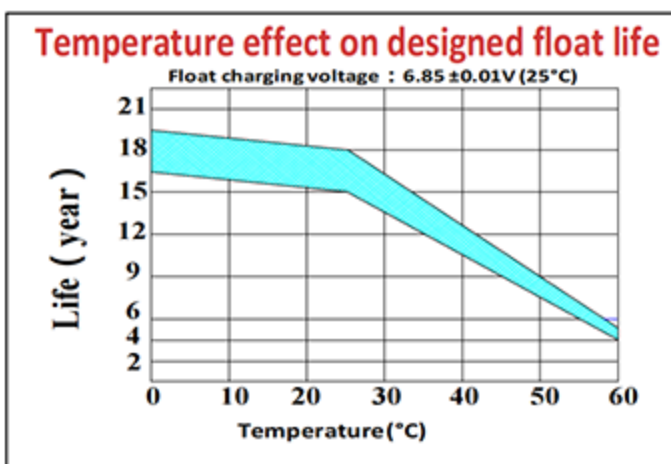
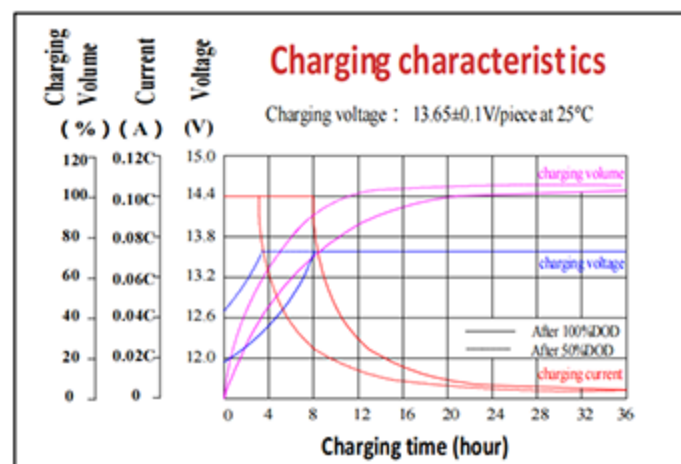
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## Performance Characteristics



## 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 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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