All In One ESS
Energy Storage System

LPSBONE Series Stackable Brick
LiFePO4 Battery + Smart Inverter
Tiny or Big Home Solar Solutions

CS SUN

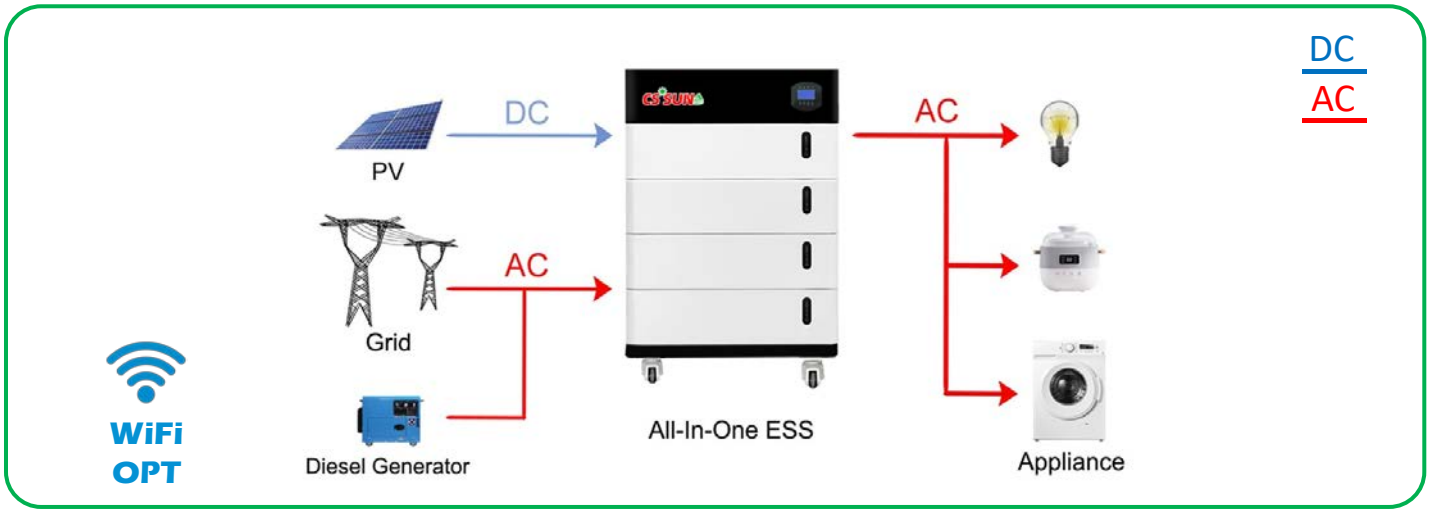
LPSBONE Series Brief Introduce

Safety | Long Life | Simple

LPSBONE Series stackable brick battery + inverter all in one ess is experience seamless power management with our innovative all-in-one stackable portable lithium battery and inverter. Designed for versatility and efficiency, it offers robust energy storage with the flexibility of easy expansion. Ideal for both residential and commercial applications, this compact unit ensures reliable power supply and quick installation. Whether for backup power or off-grid use, enjoy uninterrupted energy flow and optimal performance with our cutting-edge solution. Easily stackable for customizable power capacity, allowing users to scale up as needed without additional infrastructure. Integrates advanced lithium battery technology with a built-in inverter for optimal energy conversion and minimal loss.

ISO 9001 | ISO 14001 | cULus | CE | IEC 62619

Application Block Diagram



All In One ESS
Energy Storage System

LPSBONE Series Stackable Brick
LiFePO4 Battery + Smart Inverter
Tiny or Big Home Solar Solutions

CS SUN

Technical Specifications

Model Parametric Description		LPSBONE 5.12KWh+5KW	LPSBONE 10.24KWh+5KW	LPSBONE 15.36KWh+5KW	LPSBONE 20.48KWh+5KW	LPSBONE 25.6KWh+5KW	LPSBONE 25.6KWh+10KW
Battery	Battery Type	LiFePO4 Battery					
	Battery Energy	5.12KWh	10.24KWh	15.36KWh	20.48KWh	25.6KWh	25.6KWh
	Nominal Voltage	51.2V					
	Rated Capacity	100Ah	200Ah	300Ah	400Ah	500Ah	500Ah
	Voltage Range	42.0~57.0V	42.0~57.0V	42.0~57.0V	42.0~57.0V	42.0~57.0V	42.0~57.0V
	Cycle Life	Prismatice Cell, > 6000cycles @ 80%DOD					
	Months Self Discharge	<3%					
	Communicate Protoco	CAN/RS485					
	Charge Temperature	0 °C to 45 °C (32F to 113F) @60±25% Relative Humidity					
	Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity					
	Storage Temperature	0 °C to 40 °C (32F to 104F) @60±25% Relative Humidity					
PV	Max. Power	3500W	3500W	3500W	3500W	3500W	7.0KW(3500*2)
	Max. PV Voltage	500Vdc	500Vdc	500Vdc	500Vdc	500Vdc	500Vdc
	MPPT Voltage Range	120~430Vdc	120~430Vdc	120~430Vdc	120~430Vdc	120~430Vdc	120~430Vdc
	Max.PV charge Current	80A	80A	80A	80A	80A	80A*2
AC Output	Rated Power	5.0KW	5.0KW	5.0KW	5.0KW	5.0KW	2*5.0KW
	AC Voltage	230Vac±5%					
	AC Frequency	50Hz/60Hz					
	Efficiency	≤94%					
	Transfer time	10ms (for PC) 20ms (for Appliance)					
	Waveform	Pure sine wave					
AC Input	Rated AC Voltage	230Vac					
	AC Voltage Range	170~280Vac(for PC) 90~180Vac(for Applies)					
	Frequency Range	50Hz/60Hz(Auto sensing)					
General Parameters	Altidude	≤2000m					
	Humidity	5%~95%					
	Work Telementer	-10℃ ~50℃					
	Size(mm)	585*360*450mm 23.04*14.18*17.72Ins	585*360*605mm 23.04*14.18*23.83Ins	585*360*760mm 23.04*14.18*29.93Ins	585*360*915mm 23.04*14.18*36.03Ins	585*360*1070mm 23.04*14.18*42.14Ins	585*360*1225mm 23.04*14.18*48.24Ins
	Weight(kg)	62kgs/136.67lbs	105kgs/231.46lbs	148kgs/326.24lbs	191kgs/421.03lbs	234kgs/515.82lbs	246kgs/542.27lbs

Note: All above information shall be changed without prior notice, CSSUN reserves the right to explain and update the latest information. Welcome inquiry us !

All In One ESS
Energy Storage System

LPSBONE Series Stackable Brick LiFePO4 Battery + Smart Inverter Tiny or Big Home Solar Solutions

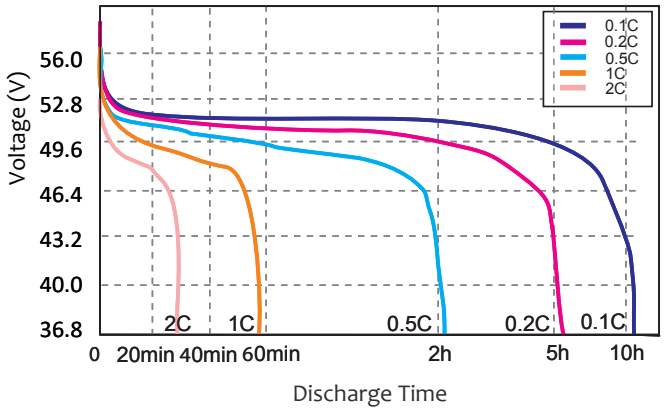
CS SUN

Battery BMS Specifications

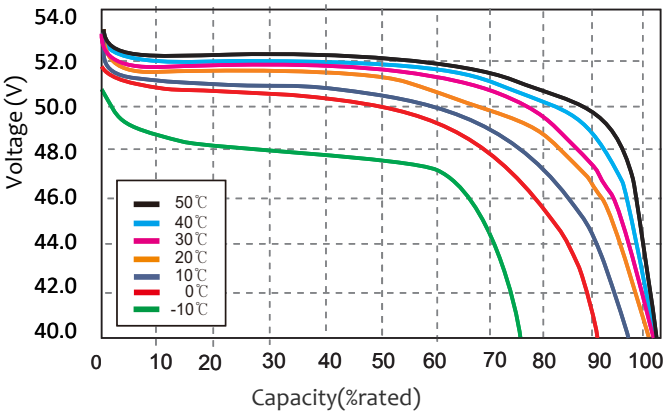
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Temperature protection
- Cell Voltage balance function
- Short detection function

Battery Performance Characteristics (Data test from 16 Series Cell)

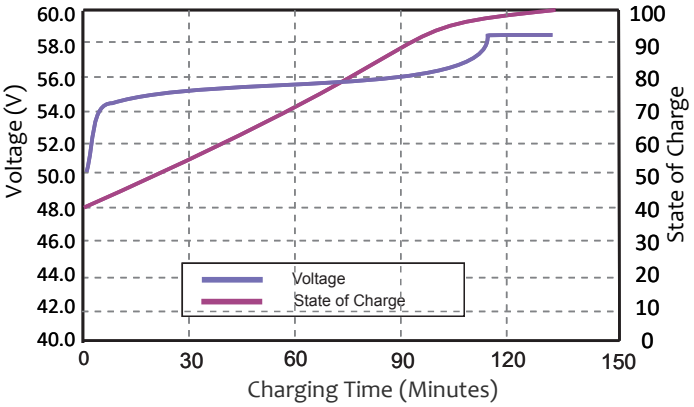
Different Rate Discharge Curve (25°C)



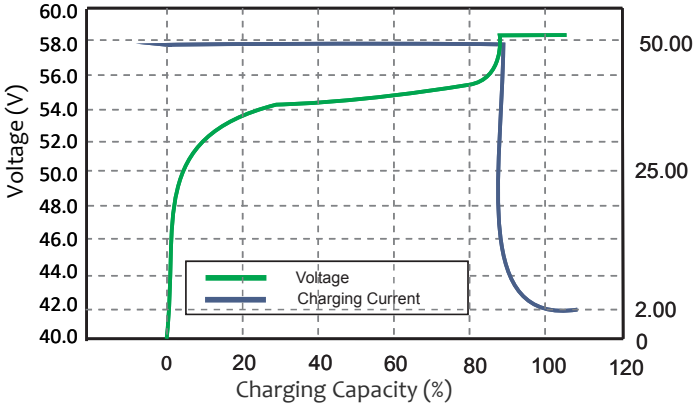
Different Temperature Discharge Curve At 0.5c



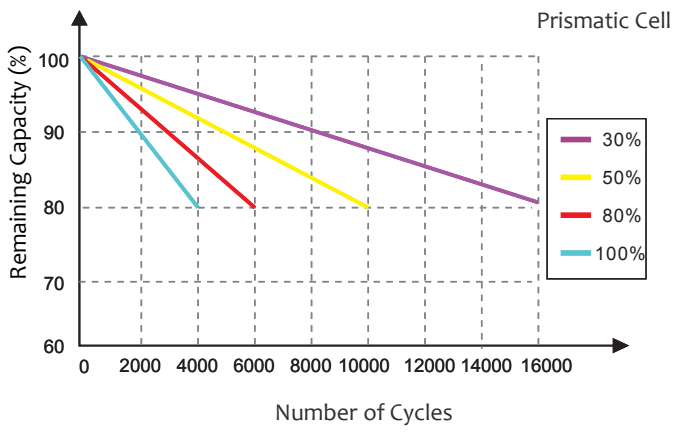
State Of Charge Curve At 0.5c (25°C)



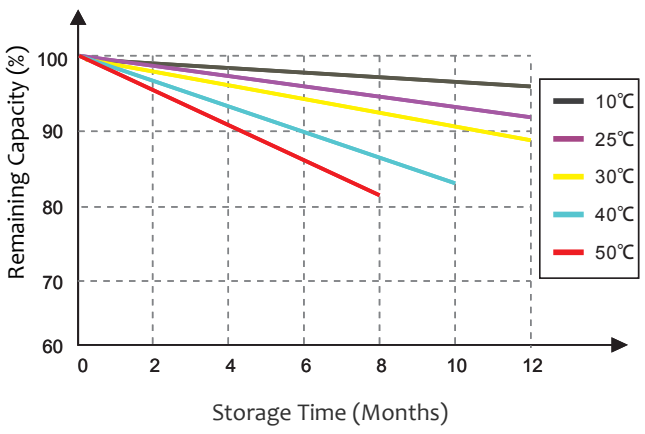
Charging Characteristics At 0.5c (25°C)



Cycle Life Curve At 1c According DoD



Self Discharge Characteristics Curve



Note: All above information shall be changed without prior notice, CSSUN reserves the right to explain and update the latest information. Welcome inquiry us !
SAFETY WARNING : Use only within the allowed parameters. Do not short circuit or over-load the battery. Charge only using an approved charger designed specifically to charge this battery. Do not heat above maximum temperatures indicated. Never crush, mutilate, puncture or abuse the battery. Do not dismantle the pack or disable any of the protective devices or circuits. Do not use the battery if you suspect it may be faulty or damaged.

Add: Introduction Building, Xingdong Industry Park, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755-29123661 | email: sales@cssun.net | support@cssun.net | website: www.cssun.net