

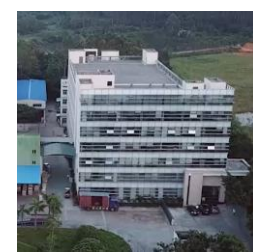
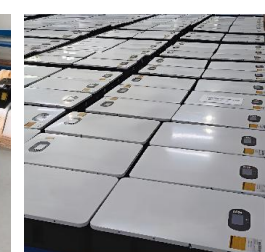
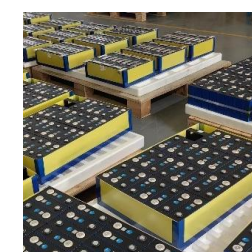
A Provider with 20+years Battery manufacturing experience
Durable Lithium Battery use CSSUN
Shenzhen CSSUN Energy Co., LTD



Shenzhen CSSUN Energy Co., LTD

Tel: +86-755-27417959
Fax: +86-755-29123661
Website: www.cssun.net
E-mail: sales@cssun.net
Support: support@cssun.net

Add: Introduction Building, Xingdong Industry Park, Bao'an District, Shenzhen, Guangdong, China



Since 2003

CSSUN Since 2003

CSSUN is a professional battery company established in May 2003, CSSUN manufactures and sells environmentally friendly Lithium and Accumulator batteries. CSSUN introduces and develops advanced technology, and adopts the world's most advanced production equipments and testing measures to ensure long product life, high energy density, and environmental protection features such as cadmium-free, leading the domestic counterparts.

The company is a high-tech enterprise headquartered in Gaoming, Foshan city Guangdong Province China, and has three manufacturing bases in Foshan, Dongguan, Huizhou and Anhui. It has approximately 1,000 employees, including two professors who have experience over 20 years in batteries research from BYD, and over 50 research engineers. CSSUN also has invested strongly in domestic and foreign institutions and scientific research institutions to overcome difficulties in battery technology. The performance of the batteries independently researched and developed by CSSUN has met and exceeded international standards, and a variety of technologies have been granted national and international patents.

CSSUN products are exported to more than 190 countries and regions all over the world, such as South East Asia, Europe, America, South America, Australia, etc. CSSUN batteries are applied to light electric Vehicles (LEVs), uninterruptible power supply (UPS) systems, electricity and telecommunications backup systems, automatic control, wind and solar power systems. With its reliable products and quality services, CSSUN battery has won high praise from users at home and abroad.



Contents

- **P01 CSSUN Industrial Parks**
- **P03 LPW Series Power Wall batteries**
- **P05 LFP Series Replace VRLA batteries**
- **P07 LPR Series Rack Mount 19' batteries**
- **P09 LPUS Series UP Standing batteries**
- **P11 LPSB Series Stackable Brick Batteries**
- **P13 LPSS series Stackable Slim batteries**
- **P15 LPWONE series ESS**
- **P17 LPUSONE series ESS**
- **P19 LPSBONE series ESS**
- **P21 LPSBHONE series HV ESS**
- **P23 Super Solid Series batteries**
- **P25 LPA series AGV/AMR/Golf Cart/Forklift/Boat...**





LPW Series Wall Mounted

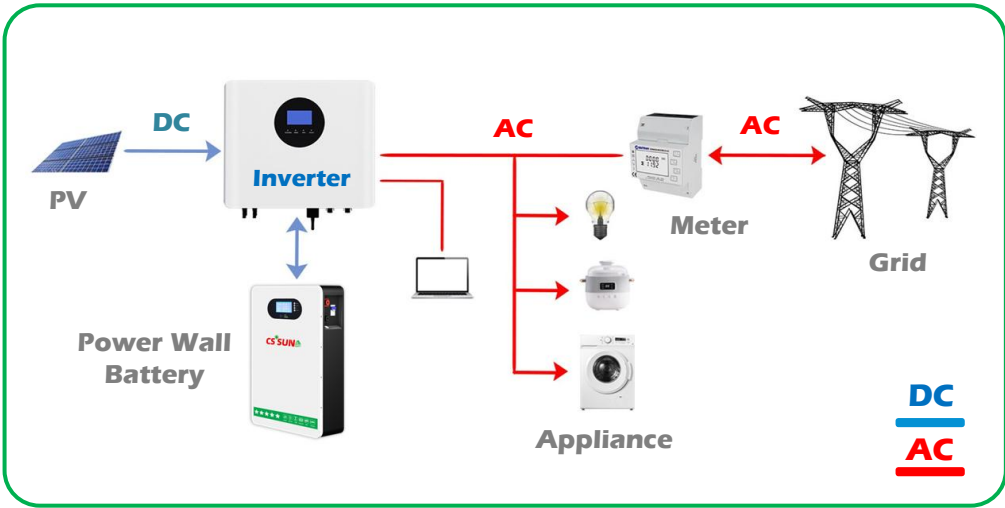


Lithium Iron Phosphate (LiFePO4) Batteries

CSSUN's LiFePO4 wall-mounted solar storage lithium battery. It ranges from 25.6V/48V/51.2V and is available in 50Ah to 300Ah capacities. It's rechargeable lithium-ion battery pack. It has a longer cycle life and higher energy density than traditional lead-acid batteries. The compact design allows for easy installation and space-saving. The battery is suitable for off-grid and on-grid solar PV systems, residential and commercial energy storage, and backup power supply. It's one of the best replacement for Tesla PowerWall.

Product Features

- **High capacity:** Available in 50Ah to 300Ah capacities, providing ample storage for residential and commercial energy systems.
- **Long cycle life:** The LiFePO4 battery has a longer cycle life and is more durable than traditional lead-acid batteries, making it a cost-effective solution in the long term.
- **High energy density:** The battery has a higher energy density compared to lead-acid batteries, providing greater energy storage in a smaller space.
- **Easy installation and space-saving:** The compact design allows for easy wall-mounting and space-saving installation.
- **Versatility:** Suitable for a wide variety of applications including off-grid and on-grid solar PV systems, residential and commercial energy storage, and backup power supply.



Applications

- Home Power System
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Shop Power System



BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short circuit detection function
- High Temperature protection
- Low Temperature protection
- Cell Voltage Balance function

Standards

- IEC62619
- MSDS, UN38.3
- DG Packing Certification
- Passed ISO9001,ISO4001
- CE,CEI o-21, PSE
- UL and Golden Sun Certification
- Global Insurance

Main Parameters Table

Model	Voltage (V)	Capacity (Ah)	Dimension (mm)			Weight kgs	Square Cell	
			L	W	H		connect	Cycles
LPW24V100	25.6V	100Ah	330	505	145	25kgs	8S1P	≥6000 80%DOD
LPW24V200	25.6V	200Ah	380	580	170	38kgs	8S2P	≥6000 80%DOD
LPW48V50H	51.2V	50Ah	380	580	170	43kgs	16S1P	≥6000 80%DOD
LPW48V100	48.0V	100Ah	380	580	170	41kgs	15S1P	≥6000 80%DOD
LPW48V200	48.0V	200Ah	800	600	250	78kgs	15S2P	≥6000 80%DOD
LPW48V100H	51.2V	100Ah	380	580	170	43kgs	16S1P	≥6000 80%DOD
LPW48V150H	51.2V	150Ah	750	580	170	62kgs	16S1P	≥6000 80%DOD
LPW48V200H	51.2V	200Ah	800	600	250	82kgs	16S2P	≥6000 80%DOD
LPW48V250H	51.2V	250Ah	950	950	300	100kgs	16S1P	≥6000 80%DOD
LPW48V280H	51.2V	280Ah	780	435	232.5	114kgs	16S1P	≥6000 80%DOD
LPW48V300H	51.2V	300Ah	780	435	232.5	121kgs	16S1P	≥6000 80%DOD
LPW48V314H	51.2V	314Ah	780	435	232.5	123kgs	16S1P	≥6000 80%DOD
LPW24V100-SP	25.6V	100Ah	387	368	150	30kgs	8S1P	≥6000 80%DOD
LPW48V100H-SP	51.2V	100Ah	635	370	150	48kgs	16S1P	≥6000 80%DOD
LPW48V200H-SP	51.2V	200Ah	830	520	160	99kgs	16S2P	≥6000 80%DOD
LPW48V200H-SPW	51.2V	200Ah	950	550	175	102kgs	16S2P	≥6000 80%DOD



- Communication Protocol customization
- Easy Installation
- Support 15pcs in Parallel
- Compatible with 20+ mainstream inverters
- Multi-model Design
- Ultra Slim Design



LFP Series Replace VRLA



- Applications
- Solar Energy storage System
 - Wind energy storage system
 - UPS, backup power
 - RVs, Boats, Marian
 - Medical equipment
 - Lighting and so on

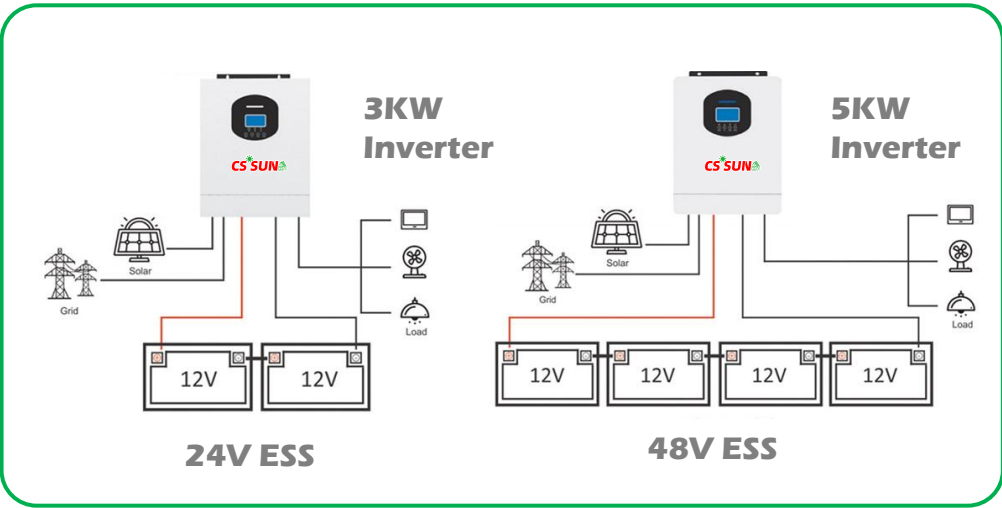


Lithium Iron Phosphate (LiFePO4) Batteries

CSSUN's LFP Series rechargeable Battery Pack for Replace VRLA Battery are ideal applications to RVS, solar energy, boats, and power equipment. These lithium batteries offer a safe and lightweight solution, with higher efficiency, longer lifespan, and deep discharge capabilities compared to traditional sealed lead-acid batteries. Designed with advanced LiFePO4 technology, they provide benefits such as temperature protection and superior recharge and discharge efficiency. Just a little higher costs, these batteries are more cost-effective in the long term due to their extended life span. LFP Series LiFePO4 batteries provide a reliable and worry-free energy solution for a range of applications.

Product Features

- **Light weight:** Significantly lighter than traditional lead-acid batteries, making it easier to handle and install.
- **Longer Lifespan:** Provides a longer lifespan compared to lead-acid types, reducing the need for replacement and lowering maintenance costs.
- **Faster Charging:** Rapid charging compared to lead-acid batteries for faster usage and turnaround.
- **Higher Efficiency:** Offers a higher energy efficiency than lead-acid types, reducing energy costs.
- **Environmentally Friendly:** Eco-friendly and low-maintenance with no hazardous materials, avoiding contamination and pollution.



BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short circuit detection function
- High Temperature protection
- Low Temperature protection
- Cell Voltage Balance function

Standards

- IEC62619
- MSDS, UN38.3
- DG Packing Certification
- Passed ISO9001,ISO4001
- CE,CEI 0-21, PSE
- UL and Golden Sun Certification
- Global Insurance

Main Parameters Table

Model	Voltage (V)	Capacity (Ah)	Dimension (mm)			Weight kgs	Cell	
			L	W	H		Connect	Cycle
LFP12V7.0	12.8V	7Ah	151	65	94	0.71kgs	4S1P C	≥6000 50%DoD
LFP12V12	12.8V	12Ah	151	99	99	1.50kgs	4S2P C	≥6000 50%DoD
LFP12V20	12.8V	20Ah	181	77	170	3.50kgs	4S1P C	≥6000 50%DoD
LFP12V40	12.8V	40Ah	267	77	172	5.40kgs	4S2P C	≥6000 50%DoD
LFP12V50	12.8V	50Ah	223	150	177	6.50kgs	4S1P S	≥6000 80%DoD
LFP12V60	12.8V	60Ah	223	150	177	7.20kgs	4S3P C	≥6000 50%DoD
LFP12V75	12.8V	75Ah	256	165	210	9.40kgs	4S13P C	≥6000 50%DoD
LFP12V100	12.8V	100Ah	330	173	216	11.5kgs	4S1P S	≥6000 80%DoD
LFP12V120	12.8V	120Ah	406	173	236	14.5kgs	4S1P S	≥6000 80%DoD
LFP12V150	12.8V	150Ah	490	171	240	16.5kgs	4S1P S	≥6000 80%DoD
LFP12V200	12.8V	200Ah	520	240	224	21.5kgs	4S2P S	≥6000 80%DoD
LFP12V280	12.8V	280Ah	383	193	252	27.1kgs	4S1P S	≥6000 80%DoD
LFP12V300S	12.8V	300Ah	383	193	252	27.1kgs	4S1P S	≥6000 80%DoD
LFP12V314	12.8V	314Ah	383	193	252	27.1kgs	4S1P S	≥8000 80%DoD
LFP12V400	12.8V	400Ah	522	269	218	36.5kgs	4S4P S	≥6000 80%DoD
LFP24V10	25.6V	10Ah	181	77	170	3.5kgs	8S1P C	≥6000 50%DoD
LFP24V20	25.6V	20Ah	223	120	175	6.0kgs	8S1P C	≥6000 50%DoD
LFP24V50	25.6V	50Ah	330	173	216	11.5kgs	8S1P S	≥6000 80%DoD
LFP24V100	25.6V	100Ah	520	238	218	21.5kgs	8S1P S	≥6000 80%DoD
LFP24V150	25.6V	150Ah	522	269	218	32.0kgs	8S1P S	≥6000 80%DoD
LFP24V200	25.6V	200Ah	522	269	218	36.6kgs	8S2P S	≥6000 80%DoD
LFP48V50H	51.2V	50Ah	520	240	224	21.5kgs	16S1P S	≥6000 80%DoD
LFP48V100H	51.2V	100Ah	522	269	224	36.5kgs	16S1P S	≥6000 80%DoD



- Bluetooth/ LCD OPT
 - Long Cycle Life
 - Low Temperature Self-heating
- IP65 Waterproof
 - Support 4 X 4 sets in Series X Parallel
 - High Rate & High Current discharge



LPR Series 19' Rack Mounted

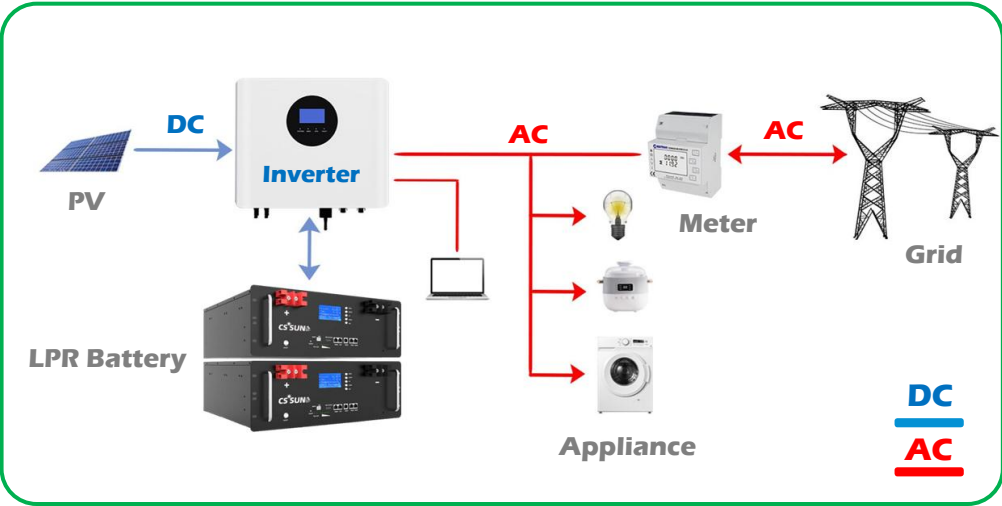


Lithium Iron Phosphate (LiFePO4) Batteries

CSSUN's Rack Mounted Rechargeable Lithium Battery is an innovative and reliable solution for providing energy storage in industrial applications such as data centers and telecom base stations. Low voltage offer multiple nominal voltages (12.8V/25.6V/48.0V/51.2V etc.).With its high energy density, fast recharge time and compact design, this battery provides a highly efficient and cost-effective energy storage option for a range of applications in the industry. The 19-inch standard Rack Mount Lithium Battery is easy to install, scalable, space-efficient, and compatible with other equipment. It's popular in Lithium Solar Batteries system and Solar Energy

Product Features

- **Scalability:** ability to expand the battery system to meet increasing energy demands. Easy get 200ah to 1000ah battery group
- **Fast Charging and Discharging:** allows for quick power response and efficient energy usage.
- **Long Service Life:** provides high cycle stability and reduced maintenance costs. 5 years warranty.
- **Advanced Safety Features:** including overcharge protection, over-temperature protection, and short-circuit protection.
- **Compact Design:** saves space, reduces installation costs and provides ease of use in applications with limited space.
- **The built-in BMS:** ensures a long lifetime, safe handling and high-accuracy State of Charge (SOC) calculations.



Applications

- Telecommunication
- Data Center
- Home Energy Storage System
- Solar/wind energy storage system
- UPS, backup power
- Medical equipment



BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short circuit detection function
- High Temperature protection
- Low Temperature protection
- Cell Voltage Balance function

Standards

- IEC62619
- MSDS, UN38.3
- DG Packing Certification
- Passed ISO9001,ISO4001
- CE,CEI o-21, PSE
- UL and Golden Sun Certification
- Global Insurance

Main Parameters Table

Model	Voltage (V)	Capacity (Ah)	Dimension (mm)			Weight kgs	Cell	
			L	W	H		connect	Cycles
LPR12V50	12.8V	50Ah	390	442	45	11kgs	4S1P	≥6000 80%DOD
LPR12V100	12.8V	100Ah	365	442	88	15kgs	4S1P	≥6000 80%DOD
LPR12V200	12.8V	200Ah	269	442	133	25kgs	4S2P	≥6000 80%DOD
LPR24V50	25.6V	50Ah	365	442	88	16kgs	8S1P	≥6000 80%DOD
LPR24V100	25.6V	100Ah	269	442	133	25kgs	8S1P	≥6000 80%DOD
LPR24V200	25.6V	200Ah	420	442	133	40kgs	8S2P	≥6000 80%DOD
LPR24V400	25.6V	400Ah	420	442	226	80kgs	8S4P	≥6000 80%DOD
LPR24V560	25.6V	560Ah	715	442	231	109kgs	8S2P	≥6000 80%DOD
LPR48V50	48.0V	50Ah	269	442	133	22kgs	15S1P	≥6000 80%DOD
LPR48V100	48.0V	100Ah	420	442	133	38kgs	15S1P	≥6000 80%DOD
LPR48V150	48.0V	150Ah	600	442	133	54kgs	15S1P	≥6000 80%DOD
LPR48V200	48.0V	200Ah	420	442	226	78kgs	15S2P	≥6000 80%DOD
LPR48V50H	51.2V	50Ah	405	442	133	23kgs	16S1P	≥6000 80%DOD
LPR48V100H	51.2V	100Ah	420	442	133	40kgs	16S1P	≥6000 80%DOD
LPR48V150H	51.2V	150Ah	600	442	133	56kgs	16S1P	≥6000 80%DOD
LPR48V200H	51.2V	200Ah	420	442	226	80kgs	16S2P	≥6000 80%DOD
LPR48V280H	51.2V	280Ah	715	442	231	109kgs	16S1P	≥6000 80%DOD
LPR48V300H	51.2V	300Ah	715	442	231	112kgs	16S1P	≥6000 80%DOD
LPR48V314H	51.2V	314Ah	715	442	231	115kgs	16S1P	≥6000 80%DOD



- Communication Protocol customization
 - Easy Installation
 - Support 15pcs in Parallel
- Compatible with 20+ mainstream inverters
 - 19' Standard Design
 - Standard 3U/4U/5U Rack Mount



LPUS Series UP Standing

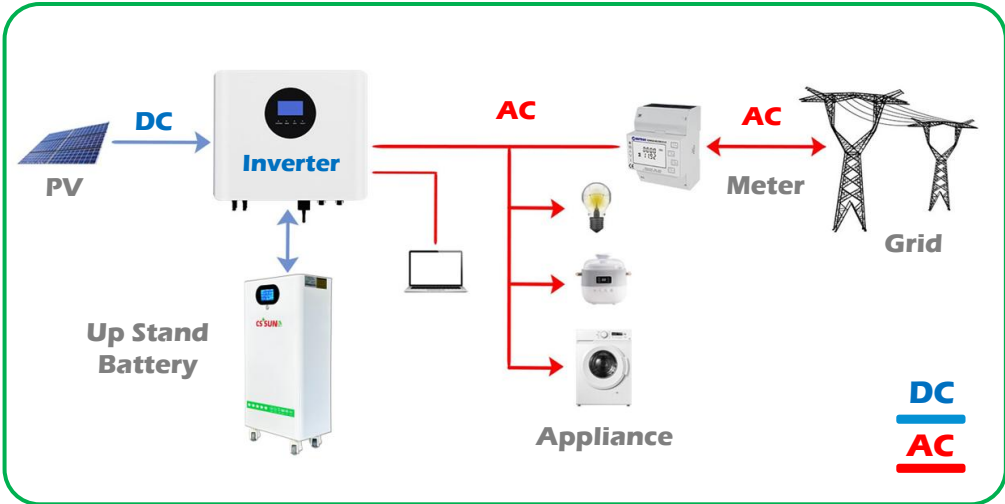


Lithium Iron Phosphate (LiFePO4) Batteries

CSSUN'S LPUS Series up standing lithium battery is a household energy storage solution that provides reliable and efficient power for homes. It features a high-capacity lithium-ion battery that stores renewable energy from solar panels or the grid, reducing energy consumption costs and ensuring constant power supply during emergencies. The battery's sleek and compact design allows for easy installation and maintenance. With its user-friendly interface, users can monitor their energy usage and optimize energy management. This product is ideal for homeowners who want to reduce their carbon footprint and gain greater control over their energy consumption while enjoying uninterrupted power supply. With the wheels it's move easily.

Product Features

- **High-capacity storage** – LPUS Series provides high-capacity storage for renewable energy, allowing homeowners to reduce dependence on the grid and save money on energy consumption. 10kWh to 20kWh(Low voltage 51.2V)
- **Efficient power supply** - With its reliable and efficient power supply, this battery ensures constant electricity during emergencies, reducing the risk of power outages and disruptions.
- **User-friendly interface** - The product's easy-to-use interface allows users to monitor their energy usage and optimize energy management, providing greater control over energy consumption and costs. Touch screen OPT.
- **Compact design** - The battery's sleek and compact design allows for easy installation and maintenance, making it an ideal solution for homeowners with limited space and resources.
- **Eco-friendly** - This product is eco-friendly, helping reduce carbon emissions and promoting a sustainable energy future.



Applications

- Home Power System
- Solar energy storage system
- wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Hotel Power System



BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short circuit detection function
- High Temperature protection
- Low Temperature protection
- Cell Voltage Balance function

Standards

- IEC62619
- MSDS, UN38.3
- DG Packing Certification
- Passed ISO9001,ISO4001
- CE,CEI o-21, PSE
- UL and Golden Sun Certification
- Global Insurance

Main Parameters Table

Model	Voltage	Capacity	Dimension (mm)			Weight	Power	LCD
	(V)	(Ah)	L	W	H	kgs	Capacity	
LPUS48V100H	51.2V	100Ah	380	580	190	46.0kgs	5.12kWh	Mono & Key
LPUS48V200H	51.2V	200Ah	485	145	850	97.0kgs	10.24kWh	Mono & Key
LPUS48V400H	51.2V	400Ah	510	293	970	162.0kgs	20.48kWh	Mono & Key
LPUS A1	51.2V	280/300/314Ah	420	240	840	119.0kgs	14.3/15.36/16.08kWh	4.3'Color Touch
LPUS C1	51.2V	280/300/314Ah	470	237	690	110.0kgs	14.3/15.36/16.08kWh	Mono & Key
LPUS P1	51.2V	280/300/314Ah	490	255	741	113.5kgs	14.3/15.36/16.08kWh	7.0'Color Touch
LPUS SP	51.2V	280/300/314Ah	416	167	900	120.0kgs	14.3/15.36/16.08kWh	Mono & Key
LPUS SPT	51.2V	280/300/314Ah	420	260	895	122.0kgs	14.3/15.36/16.08kWh	3.5'Color Touch
LPUS GS	51.2V	280/300/314Ah	390	238	1190	130.0kgs	14.3/15.36/16.08kWh	7.0'Color Touch



Bluetooth OPT

- 200A BMS which can Drive 10kW inverter
 - Super Large Capacity X 15
 - Communication protocol customization
- Touch Screen display
 - Long cycle Life
 - Easy to move with wheel



LPSB Series Stackable Brick

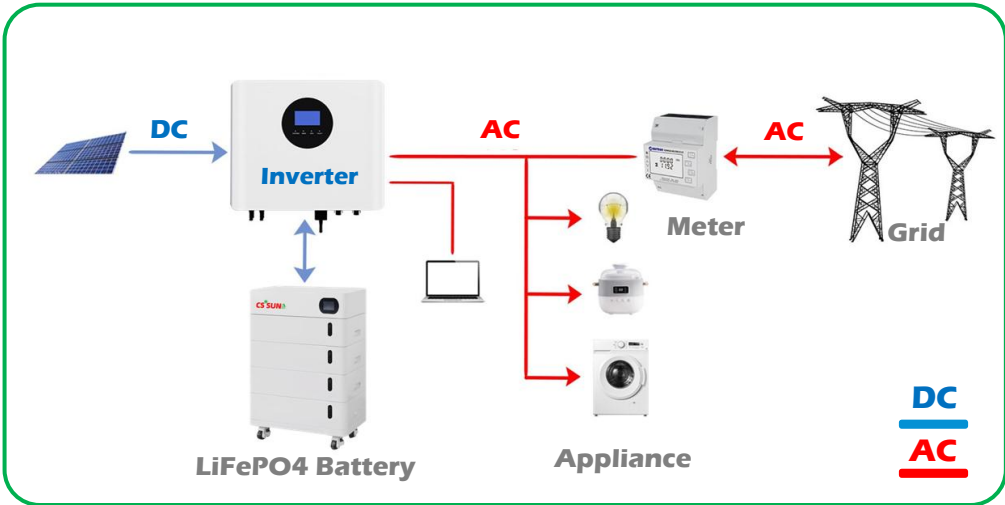


Lithium Iron Phosphate (LiFePO4) Batteries

CSSUN's LPSB Series stackable brick lithium battery is a high-tech solution for energy storage. With its unique stackable design, this battery is flexible enough to fit a wide range of energy requirements. Built from the highest quality lithium iron phosphate (LiFePO4) chemistry, this battery is both safe and durable, with an extended lifespan of ten years. Furthermore, its robust construction ensures top performance, even in extreme climates. Use this battery as an ultra-safe backup power source for various applications, including residential energy storage, off-grid energy systems, and renewable energy systems. Experience seamless energy storage with our stacked lithium battery technology.

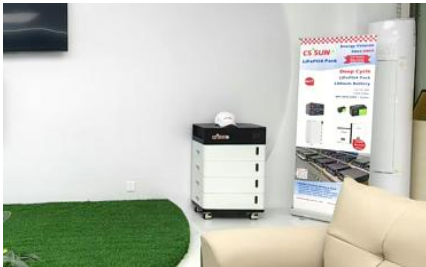
Product Features

- **Stackable Brick Design:** Our stacked lithium battery features a unique stackable design that allows for easy expansion, making it highly adaptable to different energy requirements.
- **Safe and Durable:** Built from the top-quality lithium iron phosphate chemistry, our stacked lithium battery boasts superior safety and durability, with a lifespan of up to ten years.
- **High-Performance:** With its robust construction, our stacked lithium battery delivers exceptional performance, even in the harshest environmental conditions.
- **Ideal for Multiple Applications:** Whether you need a reliable backup power source for your home or business, an off-grid energy solution for your RV or marine vessel, or a high-capacity battery bank for a renewable energy system, our stacked lithium battery is the perfect solution.
- **Scalable Solution:** Since our stacked lithium battery is easily expandable, it offers a highly scalable solution for energy storage that can grow alongside your energy needs, ensuring a long-lasting and cost-effective investment.



Applications

- Home Power System
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Shop Power System



BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short circuit detection function
- High Temperature protection
- Low Temperature protection
- Cell Voltage Balance function

Standards

- IEC62619
- MSDS, UN38.3
- DG Packing Certification
- Passed ISO9001,ISO4001
- CE,CEI o-21, PSE
- UL and Golden Sun Certification
- Global Insurance

Main Parameters Table

Model	Voltage (V)	Capacity (Ah)	Dimension (mm)			Weight kgs	Communicate	Power Capacity
			L	W	H			
LPSB48V200	48.0V	200Ah	585	360	625	92kgs	RS485/CAN	9.60kWh
LPSB48V300	48.0V	300Ah	585	360	800	138kgs	RS485/CAN	14.40kWh
LPSB48V400	48.0V	400Ah	585	360	975	184kgs	RS485/CAN	19.20kWh
LPSB48V500	48.0V	500Ah	585	360	1150	240kgs	RS485/CAN	24.00kWh
LPSB48V200H	51.2V	200Ah	585	360	625	94kgs	RS485/CAN	10.24kWh
LPSB48V300H	51.2V	300Ah	585	360	800	140kgs	RS485/CAN	15.36kWh
LPSB48V400H	51.2V	400Ah	585	360	975	187kgs	RS485/CAN	20.48kWh
LPSB48V500H	51.2V	500Ah	585	360	1150	244kgs	RS485/CAN	25.60kWh

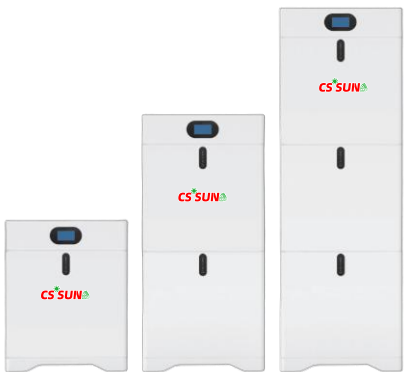


Bluetooth OPT 

- Wireless connection
- Power Expansion Freely
- 15 Levels Protection
- Easy Installation
- Long Cycle Life
- Compatible 20+ Mainstream inverter



LPSS Series Stackable Slim

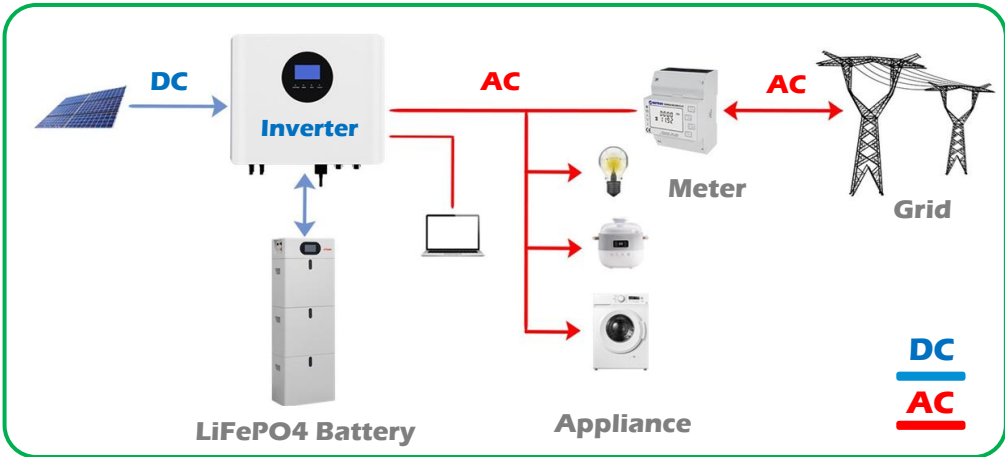


Lithium Iron Phosphate (LiFePO4) Batteries

CSSUN's LPSS Series Slim stackable brick lithium battery is a high-tech solution for energy storage. With its unique stackable design, this battery is flexible enough to fit a wide range of energy requirements. Built from the highest quality lithium iron phosphate (LiFePO4) chemistry, this battery is both safe and durable, with an extended lifespan of ten years. Furthermore, its robust construction ensures top performance, even in extreme climates. Use this battery as an ultra-safe backup power source for various applications, including residential energy storage, off-grid energy systems, and renewable energy systems. Experience seamless energy storage with our stacked lithium battery technology.

Product Features

- **Slim Stackable Brick Design:** Our stacked lithium battery features a unique stackable design that allows for easy expansion, making it highly adaptable to different energy requirements.
- **Safe and Durable:** Built from the top-quality lithium iron phosphate chemistry, our stacked lithium battery boasts superior safety and durability, with a lifespan of up to ten years.
- **High-Performance:** With its robust construction, our stacked lithium battery delivers exceptional performance, even in the harshest environmental conditions.
- **Ideal for Multiple Applications:** Whether you need a reliable backup power source for your home or business, an off-grid energy solution for your RV or marine vessel, or a high-capacity battery bank for a renewable energy system, stacked lithium battery is the perfect solution.
- **Scalable Solution:** Since our stacked lithium battery is easily expandable, it offers a highly scalable solution for energy storage that can grow alongside your energy needs, ensuring a long-lasting and cost-effective investment.



Applications

- Home Power System
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Shop Power System



BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short circuit detection function
- High Temperature protection
- Low Temperature protection
- Cell Voltage Balance function

Standards

- IEC62619
- MSDS, UN38.3
- DG Packing Certification
- Passed ISO9001,ISO4001
- CE,CEI 0-21, PSE
- UL and Golden Sun Certification
- Global Insurance

Main Parameters Table

Model	LPSS48V100 (5kWh)	LPSS48V200 (10kWh)	LPSS48V300 (15kWh)
Nominal Voltage	51.2V	51.2V	51.2V
Rated Capacity	100Ah	200Ah	300Ah
Charge Cut-Off Voltage	58.0V	58.0V	58.0V
Discharge End Voltage	42.0V	42.0V	42.0V
Communication Mode	RS485/CAN	RS485/CAN	RS485/CAN
Dimension (mm)	430*230*570mm	430*230*980mm	430*230*1390mm
Weight (kgs)	53kgs	100kgs	148kgs



Bluetooth OPT

- Plug and Play
- Fashion Design
- Long Cycle Life
- Convenient to expand capacity
- 15 Levels protection
- Compatible with 20+ mainstream inverter

LiFePO4 Lithium-ion Battery Pack

LPWONE Series

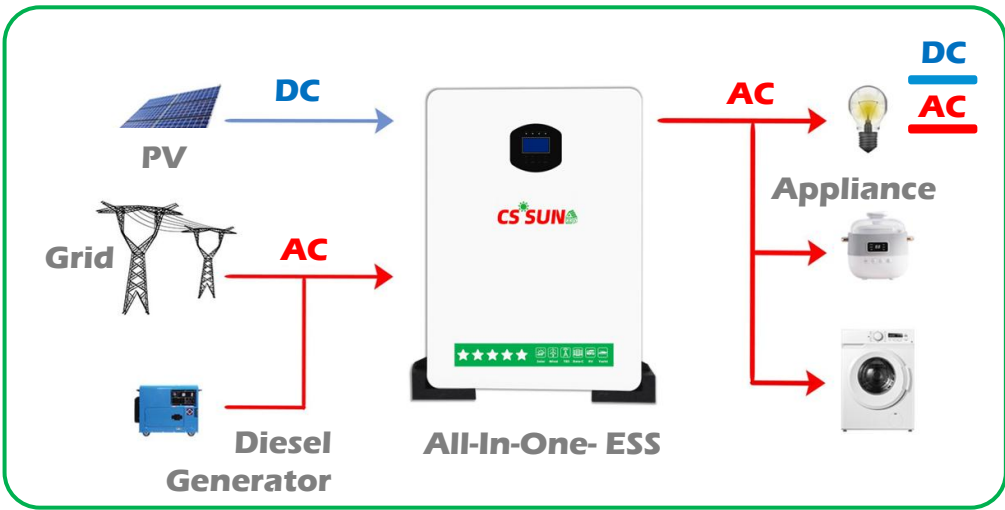


LiFePO4 Batteries + Smart Inverter

CSSUN's LPWONE wall-mounted lithium battery + inverter integrates cutting-edge technology for efficient energy storage and management. Designed for seamless installation and space-saving efficiency, it offers a compact solution ideal for residential and small commercial applications. With a robust 1-10 kW inverter and 1-10 kWh lithium battery capacity, it ensures reliable power supply and energy optimization. Advanced features include smart monitoring, remote control capabilities, and built-in safety protocols for enhanced reliability. This all-in-one system delivers versatility, performance, and ease of use, making it a dependable choice for modern energy needs.

Product Features

- **Compact Design:** Space-saving wall-mounted design ideal for residential and small commercial spaces, maximizing installation flexibility.
- **High Efficiency:** Efficient energy conversion and storage capabilities with integrated lithium batteries and high-performance inverters, optimizing energy usage.
- **User-Friendly Interface:** Intuitive control interface for easy monitoring and management of energy consumption, enhancing user experience.
- **Reliability and Safety:** Built-in safety features such as overcharge protection and short-circuit prevention ensure safe operation and system longevity.
- **Scalability:** Modular design allows for easy expansion of storage capacity and power output as energy needs grow, providing flexibility and future-proofing investments.



Applications

- Home Power System
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Shop Power System



BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short circuit detection function
- High Temperature protection
- Low Temperature protection
- Cell Voltage Balance function

Standards

- IEC62619
- MSDS, UN38.3
- DG Packing Certification
- Passed ISO9001,ISO4001
- CE,CEI 0-21, PSE
- UL and Golden Sun Certification
- Global Insurance

Main Parameters Table

Model	LPWONE 1.28kWH+1kW	LPWONE 2.5kWH+3kW	LPWONE 5kWH+5kW	LPWONE 10kWH+10kW
Battery Voltage	12.8V	25.6V	51.2V	51.2V
Rated Capacity	100Ah	100Ah	100Ah	200Ah
Battery Energy	1.28kWh	2.56kWh	5.12kWh	10.24kWh
Inverter Power Rate	1kW	3kW	5kW	10kW
MPPT Voltage Range	20~150Vdc	30~400Vdc	120~430Vdc	90~450Vdc
Waterproof	IP20	IP20	IP20	IP20
Communication	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN
Dimension (mm)	460*140*280mm	450*140*570mm	500*140*700mm	620*150*1300mm
Weight (kgs)	25kgs	32kgs	58kgs	95kgs



- All-IN-One(Battery & Inverter)
- Set Long Life LiFePO4 Battery
- Support AC Charge And PV Charge
- High Integration and Easy Installation
- Integrated Off-Grid Solar Inverter
- Support UPS Function

LPUSONE Series

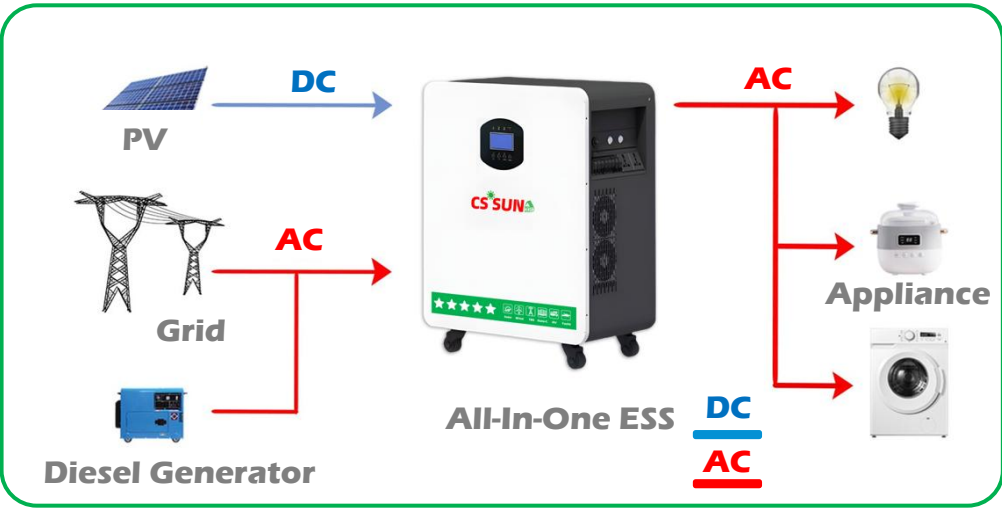


LiFePO4 Batteries + Smart Inverter

CSSUN's LPUSONE up stand lithium battery + inverter integrates innovative design with mobility and efficiency. Designed for easy transport and versatile installation, it suits various applications from residential to off-grid setups. Featuring robust power capabilities and a compact footprint, it ensures reliable energy storage and seamless integration with solar systems. User-friendly controls and smart monitoring enhance usability, while advanced safety features safeguard operation. This all-in-one solution offers flexibility, performance, and convenience, making it an ideal choice for decentralized energy needs."

Product Features

- **Portable and Versatile:** Mobile design for easy transport and flexible installation in various environments, catering to temporary or changing energy needs.
- **Integrated Solar Compatibility:** Seamlessly integrates with solar power systems, enhancing energy efficiency and enabling off-grid capabilities.
- **Compact Footprint:** Space-saving vertical configuration ideal for locations with limited space, maximizing installation options without sacrificing performance.
- **Efficient Energy Management:** Optimizes energy storage and usage with advanced inverter technology, ensuring reliable power supply and minimizing waste.
- **User-Friendly Interface:** Intuitive controls and monitoring for straightforward operation and maintenance, enhancing usability and customer satisfaction.



Applications

- Home Power System
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Shop Power System



BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short circuit detection function
- High Temperature protection
- Low Temperature protection
- Cell Voltage Balance function

Standards

- IEC62619
- MSDS, UN38.3
- DG Packing Certification
- Passed ISO9001,ISO4001
- CE,CEI 0-21, PSE
- UL and Golden Sun Certification
- Global Insurance

Main Parameters Table

Model	LPUSONE 2.5kWH+3kW	LPUSONE 5kWH+5kW	LPUSONE 10kWH+5kW	LPUSONE 14kWH+10kW	LPUSONE 15kWH+10kW
Nominal Voltage	25.6V	51.2V	51.2V	51.2V	51.2V
Rated Capacity	100Ah	100Ah	200Ah	280Ah	300Ah
Battery Energy	2.56kWh	5.12kWh	10.24kWh	14.34kWh	15.36kWh
Inverter Power Rate	3kW	5kW	5kW	10kW	10kW
MPPT Voltage Range	30~400Vdc	120~430Vdc	120~430Vdc	90~450Vdc	90~450Vdc
Communication	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN
Waterproof	IP21	IP21	IP21	IP21	IP21
Dimension (mm)	370*240*450mm	370*285*475mm	485*145*850mm	510*380*750mm	510*380*750mm
Weight (kgs)	30kgs	55kgs	98kgs	120kgs	128kgs



- All-IN-One(Battery & Inverter)
- Long Life LiFePO4 Battery
- Support AC Charge And PV Charge
- High Integration and Easy Installation
- Integrated Off-Grid Solar Inverter
- Support UPS Function

LPSBONE Series

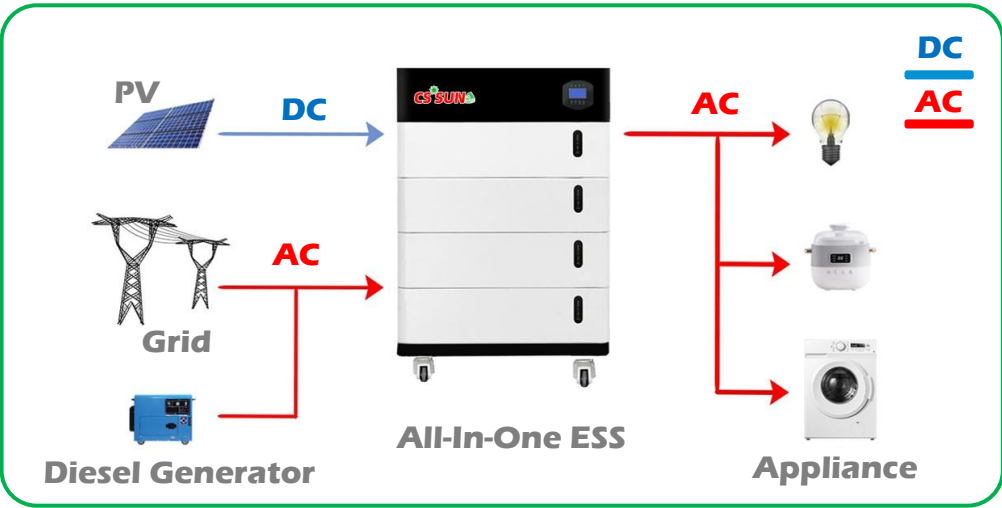


LiFePO4 Batteries + Smart Inverter

CSSUN's 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.

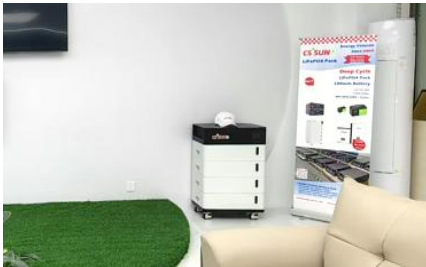
Product Features

- **Modular Design:** Easily stackable for customizable power capacity, allowing users to scale up as needed without additional infrastructure.
- **High Efficiency:** Integrates advanced lithium battery technology with a built-in inverter for optimal energy conversion and minimal loss.
- **High-Performance Inverter:** Provides seamless power conversion with low harmonic distortion, ensuring stable and reliable energy output for sensitive devices. UPS function.
- **Portability:** Lightweight and compact design ensures easy transportation and installation, perfect for both temporary and permanent setups.
- **Versatile Applications:** Suitable for a wide range of uses, from residential backup power to off-grid living and commercial energy storage solutions.



Applications

- Home Power System
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Shop Power System



BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short circuit detection function
- High Temperature protection
- Low Temperature protection
- Cell Voltage Balance function

Standards

- IEC62619
- MSDS, UN38.3
- DG Packing Certification
- Passed ISO9001,ISO4001
- CE,CEI 0-21, PSE
- UL and Golden Sun Certification
- Global Insurance

Main Parameters Table

Model	LPSBONE 15kWH+5kW	LPSBONE 20kWH+5kW	LPSBONE 25kWH+5kW	LPSBONE 15kWH+10kW	LPSBONE 30kWH+10kW	LPSBONE 45kWH+10kW
Nominal Voltage	51.2V	51.2V	51.2V	51.2V	51.2V	51.2V
Rated Capacity	300Ah	400Ah	500Ah	300Ah	300AhX2	300AhX3
Power Storage	15.36kWh	20.48kWh	25.60kWh	15.36kWh	30.72kWh	46.08kWh
Off-Grid Inverter Power Rate	5kW	5kW	5kW	10kW	10kW	10kW
MPPT Voltage Range	120~430Vdc	120~430Vdc	120~430Vdc	90~450Vdc	90~450Vdc	90~450Vdc
Communication	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN
Waterproof	IP21	IP21	IP21	IP21	IP21	IP21
Dimension (mm)	586*360*760	585*360*915	585*360*1070	665*550*835	665*550*1100	665*550*1365
Weight (kgs)	144kgs	188kgs	228kgs	128kgs	224kgs	320kgs



- Wireless Connection
- Power expansion freely
- 15 Levels Protection
- Easy Installation
- Long Cycle Life
- All-In-One 5kW or 10kW Solar Inverter

LPSSONE Series

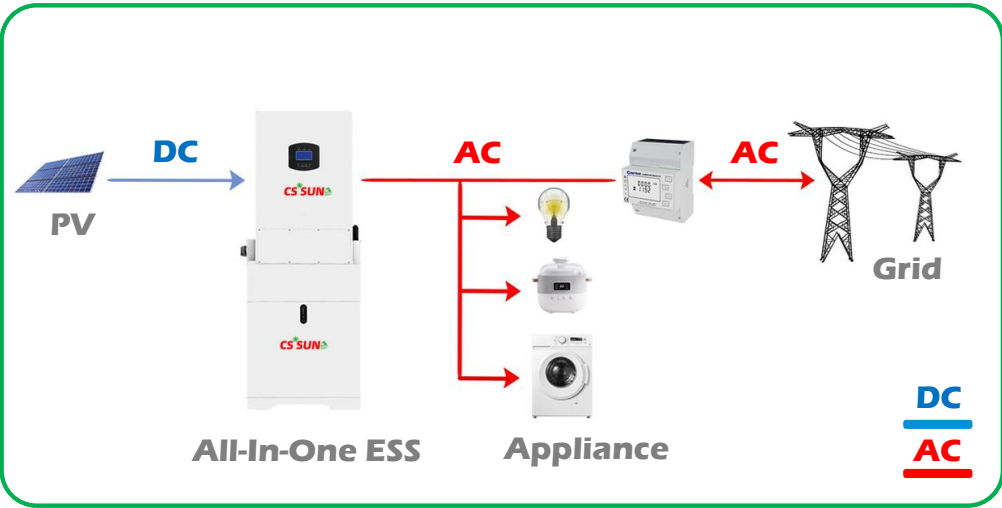


LiFePO4 Batteries + Smart Inverter

CSSUN's LPSSONE Series slim 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.

Product Features

- **Slim Modular Design:** Easily stackable for customizable power capacity, allowing users to scale up as needed without additional infrastructure.
- **High Efficiency:** Integrates advanced lithium battery technology with a built-in inverter for optimal energy conversion and minimal loss.
- **High-Performance Inverter:** Provides seamless power conversion with low harmonic distortion, ensuring stable and reliable energy output for sensitive devices. UPS function. Hybrid or off-grid.
- **Portability:** Lightweight and compact design ensures easy transportation and installation, perfect for both temporary and permanent setups.
- **Versatile Applications:** Suitable for a wide range of uses, from residential backup power to off-grid living and commercial energy storage solutions.



Applications

- Home Power System
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Shop Power System



BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short circuit detection function
- High Temperature protection
- Low Temperature protection
- Cell Voltage Balance function

Standards

- IEC62619
- MSDS, UN38.3
- DG Packing Certification
- Passed ISO9001,ISO4001
- CE,CEI 0-21, PSE
- UL and Golden Sun Certification
- Global Insurance

Main Parameters Table

Model	LPSSONE 5kWH+5kW	LPSSONE 10kWH+5kW	LPSSONE 15kWH+5kW
Nominal Voltage	51.2V	51.2V	51.2V
Rated Capacity	100Ah	200Ah	300Ah
Power Storage	5.12kWh	10.24kWh	15.36kWh
Inverter Power Rate	5kW	5kW	5kW
MPPT Voltage Range	120~430Vdc	120~430Vdc	120~430Vdc
Waterproof	IP65/IP21	IP65/IP21	IP65/IP21
Communication	RS485/CAN	RS485/CAN	RS485/CAN
Dimension (mm)	430*230*1130mm	420*230*1491mm	430*230*1850
Weight (kgs)	70kgs	115kgs	160kgs



- Plug and Play
- Slim Fashion Design
- Long Cycle Life
- Integrate off-grid or hybrid inverter
- Support WiFi
- Support IP65 All-In-One design



Super Solid Series



Applications

- Home Power System
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Shop Power System

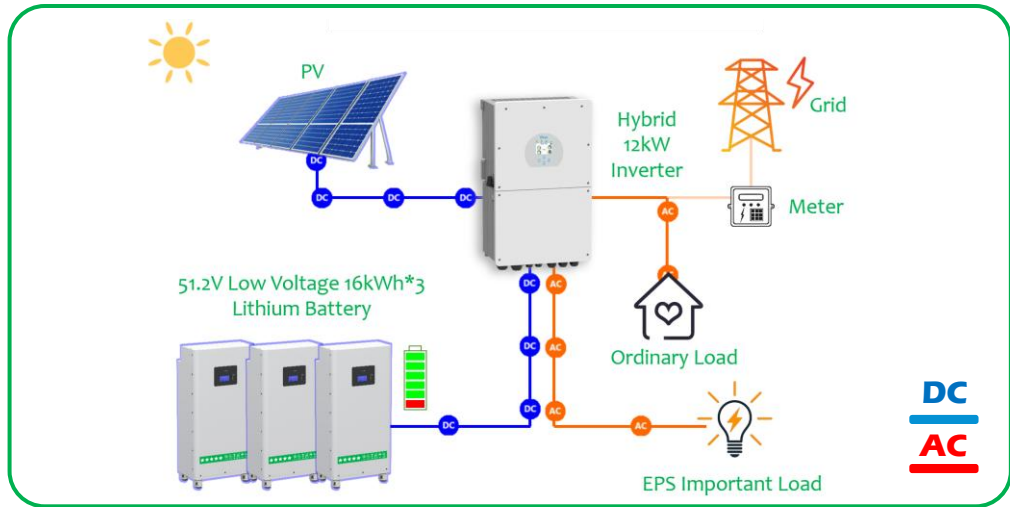


Lithium Iron Phosphate (LiFePO4) Batteries

CSSUN's super solid series LiFePO4 home storage lithium battery. It ranges from 25.6V/51.2V and is available in 100Ah to 628Ah capacities. It's rechargeable lithium-ion battery pack. It has a longer cycle life and higher energy density than traditional lead-acid batteries. The compact design allows for easy installation and space-saving. The battery is suitable for off-grid and on-grid solar PV systems, residential and commercial energy storage, and backup power supply. It's one of the best replacement for Tesla PowerWall.

Product Features

- **High capacity:** Available in 2.56kWh up to 32kWh, providing ample storage for residential and commercial energy systems.
- **Long cycle life:** The LiFePO4 battery has a longer cycle life and is more durable than traditional lead-acid batteries, making it a cost-effective solution in the long term.
- **High energy density:** The battery has a higher energy density compared to lead-acid batteries, providing greater energy storage in a smaller space.
- **Easy installation:** The compact design allows for easy rack mounting, or wall-mounting or floor install.
- **Versatility:** Suitable for a wide variety of applications including off-grid and on-grid solar PV systems, residential and commercial energy storage, telecom power and backup power supply.



BMS of LiFePO4 Battery

- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short circuit detection function
- High Temperature protection
- Low Temperature protection
- Cell Voltage Balance function

Standards

- IEC62619
- MSDS, UN38.3
- DG Packing Certification
- Passed ISO9001,ISO4001
- CE,CEI o-21, PSE
- UL and Golden Sun Certification
- Global Insurance

Main Parameters Table

Model	Energy (V)	Voltage (V)	Capacity (Ah)	Dimension (mm)			Weight kgs	Square Cell connect	Cycles 80% DOD
				L	W	H			
LPR48V100H SP	5.12kWh	51.2V	100Ah	430	600	150	48kgs	16S1P	≥6000
LPR48V200H SP	10.24kWh	51.2V	200Ah	430	660	240	86kgs	16S1P	≥6000
LPR48V280H SP	14.3kWh	51.2V	280Ah	430	802	240	115kgs	16S1P	≥6000
LPR48V300H SP	15kWh	51.2V	300Ah	430	802	240	115kgs	16S1P	≥8000
LPR48V314H SP	16kWh	51.2V	314Ah	430	802	240	115kgs	16S1P	≥8000
LPW24V100-SP	2.56kWh	25.6V	100Ah	387	368	150	30kgs	8S1P	≥6000
LPW48V100H SP	5.12kWh	51.2V	100Ah	635	370	150	48kgs	16S1P	≥6000
LPW48V200H SP	10.24kWh	51.2V	200Ah	830	520	160	99kgs	16S2P	≥6000
LPW48V200H SPW	10.24kWh	51.2V	200Ah	950	550	175	102kgs	16S2P	≥6000
LPUS48V280H SP	14.3kWh	51.2V	280Ah	416	167	900	120kgs	16S1P	≥6000
LPUS48V300H SP	15kWh	51.2V	300Ah	416	167	900	120kgs	16S1P	≥8000
LPUS48V314H SP	16kWh	51.2V	314Ah	416	167	900	120kgs	16S1P	≥8000
LPUS48V280H SPT	14.3kWh	51.2V	280Ah	420	260	895	122kgs	16S1P	≥6000
LPUS48V300H SPT	15kWh	51.2V	300Ah	420	260	895	122kgs	16S1P	≥8000
LPUS48V314H SPT	16kWh	51.2V	314Ah	420	260	895	122kgs	16S1P	≥8000
LPUS48V618H SPT	32kWh	51.2V	628Ah	416	538	895	230kgs	16S2P	≥8000



- Communication Protocol customization
- Easy Installation
- Support 16pcs in Parallel
- Compatible with 20+ mainstream inverters
- Build in Bluetooth
- Replaceable Fuse

LiFePO4 Lithium-ion Battery Pack



AGV/AMR Batteries

Customized Product



24V LiFePO4 AGV/AMR Battery (Welcome to Customize)			
Model	LPA 24V20Ah	LPA 24V40Ah	LPA 24V100Ah
Nominal Voltage	25.6V	25.6V	25.6V
Rated Capacity	20Ah	40Ah	100Ah
Charge Cut-Off Voltage	29.2V	29.2V	29.2V
Discharge End Voltage	21.6V	21.6V	21.6V
Max charging current	10A	20A	50A
Max discharging current	20A	40A	100A
Communcion	RS485/CAN	RS485/CAN	RS485/CAN
Dimension (mm)	200*160*105mm	280*180*150mm	415*245*160mm
Weight (kgs)	4.0kgs	11.0kgs	25.0kgs

48V LiFePO4 AGV/AMR Battery (Welcome to Customize)			
Model	LPA 48V50Ah	LPA 48V100Ah	LPA 48V300Ah
Nominal Voltage	48.0V	48.0V	48.0V
Rated Capacity	50Ah	100Ah	300Ah
Charge Cut-Off Voltage	54.7V	54.7V	54.7V
Discharge End Voltage	40.5V	40.5V	40.5V
Max charging current	25A	50A	150A
Max discharging current	50A	100A	300A
Communcion	RS485/CAN	RS485/CAN	RS485/CAN
Dimension (mm)	330*300*160mm	400*240*225mm	440*400*480mm
Weight (kgs)	23.0kgs	43.5kgs	130.0kgs

Golf cart/Forklift/Boat Batteries



Lithium iron phosphate batteries are light, compact, ultra safe for motive applications.



Welcome Custom Project With Detailed Requirement



Compatible Brand Inverter(Part)









GOODWE

SUNGROW

SMA

Victron









SACOLAR

GROWATT

Solis

PYLONTECH









KSTAR

INVT

Schneider

Deye









Voltronic Power

SOFAR

LUXPOWER

FOX ESS









MUST

MEGAREVO

SRNE

STUDER

Off Grid Inverter(part)



Hybrid Inverter(part)





Certificates



ISO9001, ISO14001, ISO45001

CE, CB, MH63727-UL, IEC62619, IEC62620, PSE

MSDS, UN38.3, Dangerous Packing Certificate

Our advantages

* One of Leader manufacturer in Guangdong Lithium battery industry, and we have own BMS Develop team.

* More than 21 years experience in design, manufacture and export of Energy battery.

* ISO 9001 and 14001 certificated company, All batteries are complaint with standard ISO, UL, CE approved.

* Complete own BMS Develop Team and Structural Team to meet custom requirements

* 100% load testing to ensure rated capacity, strict quality control (IQC, PQC, QA) to ensure defective rate less than 0.5%.

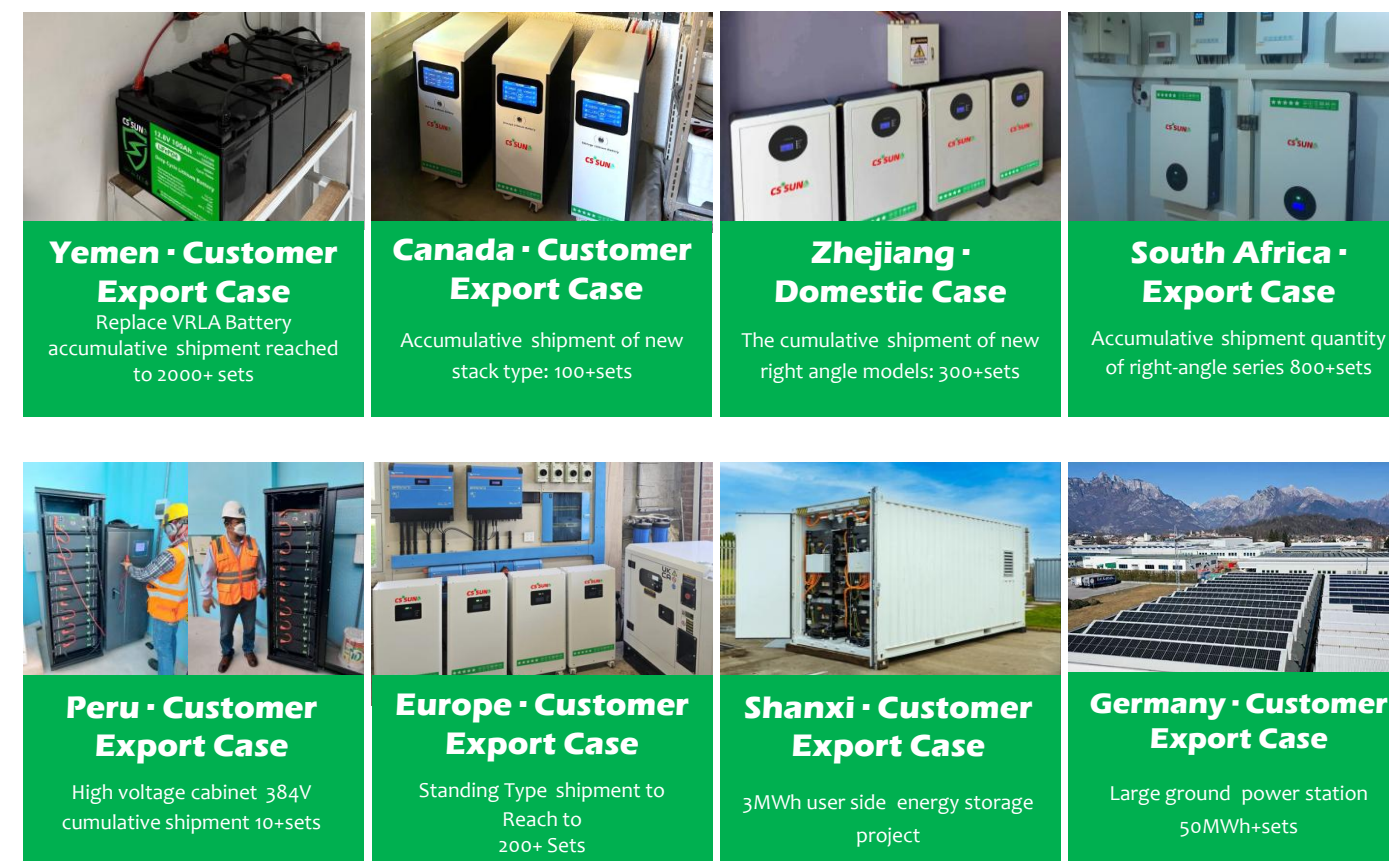
Durable Lithium Battery use CSSUN



Factory Show



CSSUN Projects



Yemen • Customer Export Case

Replace VRLA Battery accumulative shipment reached to 2000+ sets

Canada • Customer Export Case

Accumulative shipment of new stack type: 100+sets

Zhejiang • Domestic Case

The cumulative shipment of new right angle models: 300+sets

South Africa • Export Case

Accumulative shipment quantity of right-angle series 800+sets

Peru • Customer Export Case

High voltage cabinet 384V cumulative shipment 10+sets

Europe • Customer Export Case

Standing Type shipment to Reach to 200+ Sets

Shanxi • Customer Export Case

3MWh user side energy storage project

Germany • Customer Export Case

Large ground power station 50MWh+sets