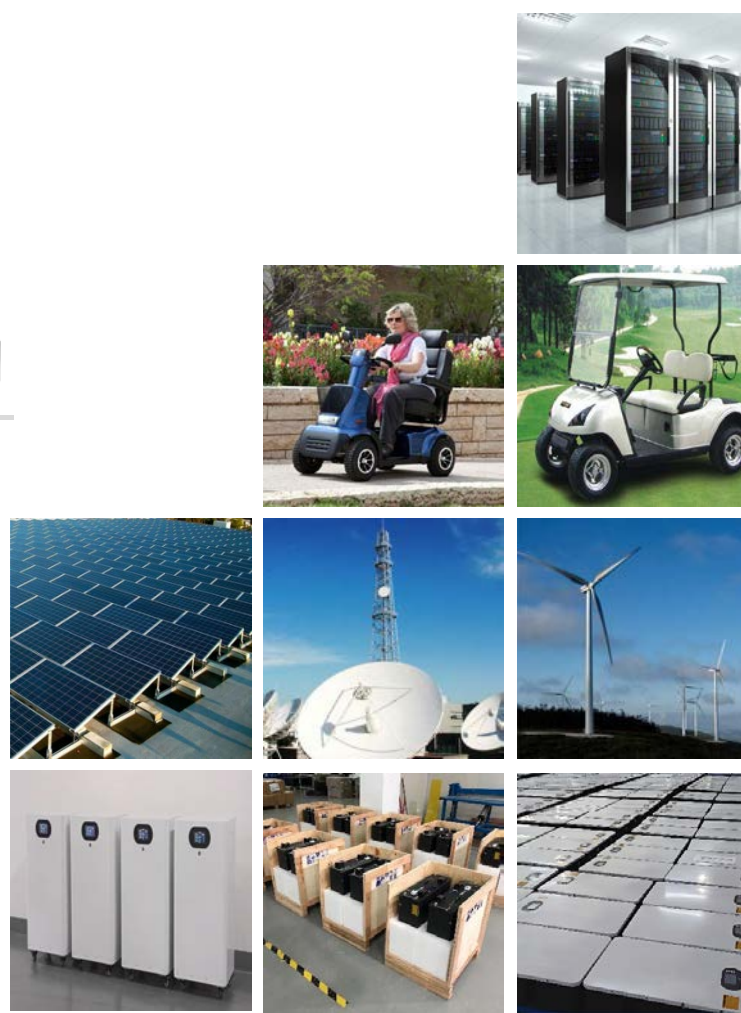


Durable Lithium Battery use CSSUN

**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



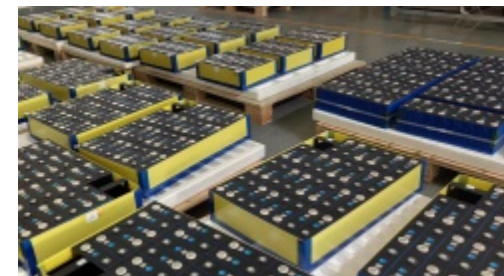
Since 2003

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 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 LPSBH Series Stackable Brick HV Batteries**
- **P15 LPSS series Stackable Slim batteries**
- **P17 LPSSH series Stackable Slim HV batteries**
- **P19 LPWONE series ESS**
- **P21 LPUSONE series ESS**
- **P23 LPSBONE series ESS**
- **P25 LPSBHONE series HV ESS**
- **P27 LPSSONE series ESS**
- **P29 LPSSHONE HV series ESS**
- **P31 LPBONE series Balcony ESS**
- **P33 LPA series AGV/AMR/Golf Cart/Forklift/Boat...**





LPW Series Wall Mounted

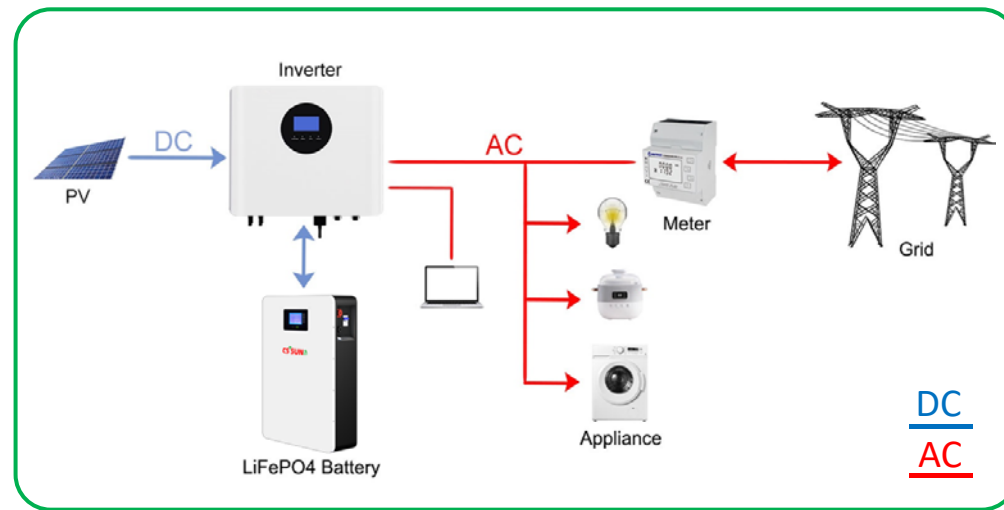


Lithium Iron Phosphate (LiFePO4) Batteries

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 0-21, PSE
- UL and Golden Sun Certification
- Global Insurance

Main Parameters Table

| Model | Voltage (V) | Capacity (Ah) | Dimension (mm) | | | Weight (kgs) | Prismatic 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 | 25kgs | 16S1P | ≥6000 80%DOD |
| LPW48V100 | 48.0V | 100Ah | 380 | 580 | 170 | 41kgs | 15S1P | ≥6000 80%DOD |
| LPW48V150 | 48.0V | 150Ah | 750 | 580 | 170 | 58kgs | 15S1P | ≥6000 80%DOD |
| LPW48V200 | 48.0V | 200Ah | 800 | 600 | 250 | 78kgs | 15S1P | ≥6000 80%DOD |
| LPW48V250 | 48.0V | 250Ah | 950 | 950 | 30 | 104kgs | 15S1P | ≥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 | 16S1P | ≥6000 80%DOD |
| LPW48V250H | 51.2V | 250Ah | 950 | 950 | 300 | 100kgs | 16S1P | ≥6000 80%DOD |
| LPW48V280H | 51.2V | 280Ah | 950 | 950 | 300 | 108kgs | 16S1P | ≥6000 80%DOD |
| LPW48V300H | 51.2V | 300Ah | 950 | 950 | 300 | 120kgs | 16S1P | ≥6000 80%DOD |



Bluetooth OPT

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

LiFePO4 Lithium-ion Battery Pack



LFP Series Replace VRLA



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.



Applications

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

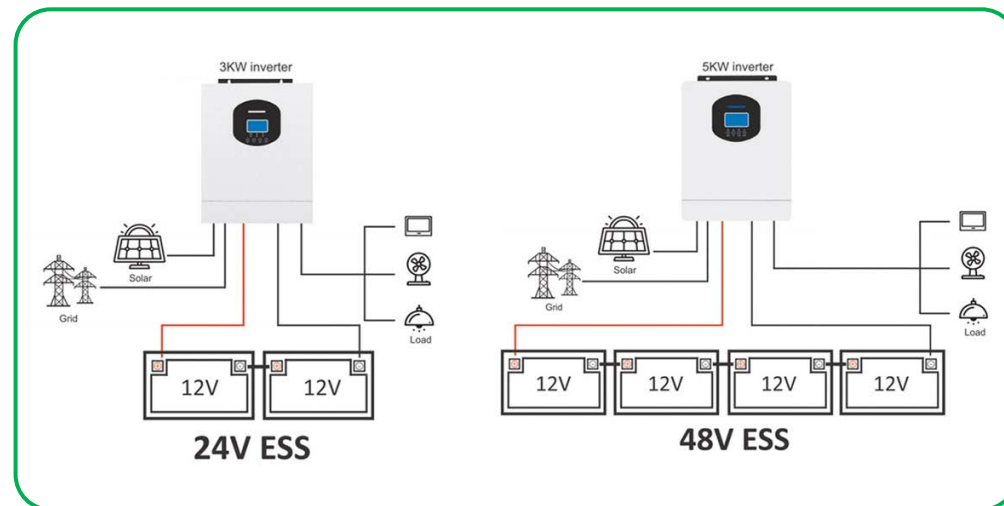


BMS of LiFePO4 Battery

- 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 | Capacity | Dimension (mm) | | | Weight | Cell | |
|-----------|---------|----------|----------------|-----|-----|---------|---------|--------------|
| | (V) | (Ah) | L | W | H | kgs | 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 | 4S3P C | ≥6000 50%DoD |
| LFP12V40 | 12.8V | 40Ah | 267 | 77 | 172 | 5.40kgs | 4S6P 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 | 4S10P 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 | 16.0kgs | 4S1P S | ≥6000 80%DoD |
| LFP12V150 | 12.8V | 150Ah | 490 | 171 | 240 | 20.0kgs | 4S1P S | ≥6000 80%DoD |
| LFP12V200 | 12.8V | 200Ah | 520 | 238 | 218 | 21.5kgs | 4S2P S | ≥6000 80%DoD |
| LFP12V300 | 12.8V | 300Ah | 520 | 238 | 218 | 32.0kgs | 4S4P S | ≥6000 80%DoD |
| LFP12V400 | 12.8V | 400Ah | 520 | 266 | 220 | 42.0kgs | 4S4P S | ≥6000 80%DoD |
| LFP24V10 | 25.6V | 10Ah | 181 | 77 | 170 | 3.5kgs | 8S2P C | ≥6000 50%DoD |
| LFP24V20 | 25.6V | 20Ah | 223 | 120 | 175 | 6.0kgs | 8S3P 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 | 520 | 266 | 220 | 32.0kgs | 8S1P S | ≥6000 80%DoD |
| LFP24V200 | 25.6V | 200Ah | 520 | 266 | 220 | 42.0kgs | 8S1P 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

LiFePO4 Lithium-ion Battery Pack



LPR Series 19' Rack Mounted

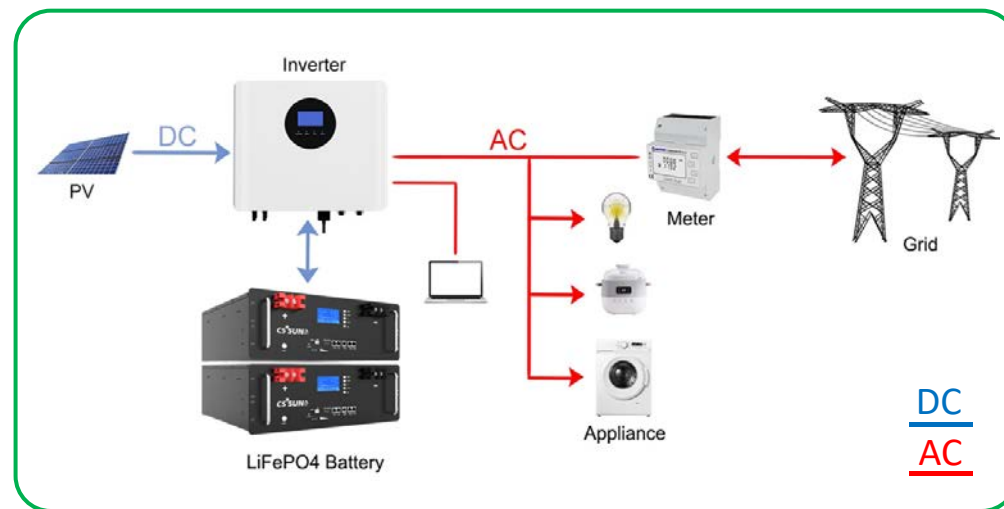


Lithium Iron Phosphate (LiFePO4) Batteries

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 storage system.

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 0-21, PSE
- UL and Golden Sun Certification
- Global Insurance

Main Parameters Table

| Model | Voltage | Capacity | Dimension (mm) | | | Weight | Cell | Cycles |
|------------|---------|----------|----------------|-----|-----|--------|---------|--------------|
| | (V) | (Ah) | L | W | H | kgs | connect | |
| LPR12V50 | 12.8V | 50Ah | 390 | 442 | 45 | 11kgs | 4S1P | ≥6000 80%DOD |
| LPR12V100 | 12.8V | 100Ah | 365 | 442 | 88 | 17kgs | 4S1P | ≥6000 80%DOD |
| LPR12V200 | 12.8V | 200Ah | 405 | 442 | 177 | 34kgs | 4S1P | ≥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 |
| LPR48V50 | 48.0V | 50Ah | 269 | 442 | 133 | 24kgs | 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 | 15S1P | ≥6000 80%DOD |
| LPR48V50H | 51.2V | 50Ah | 405 | 442 | 133 | 23kgs | 16S1P | ≥6000 80%DOD |
| LPR48V75H | 51.2V | 75Ah | 445 | 442 | 177 | 35kgs | 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 | 16S1P | ≥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 |



- 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

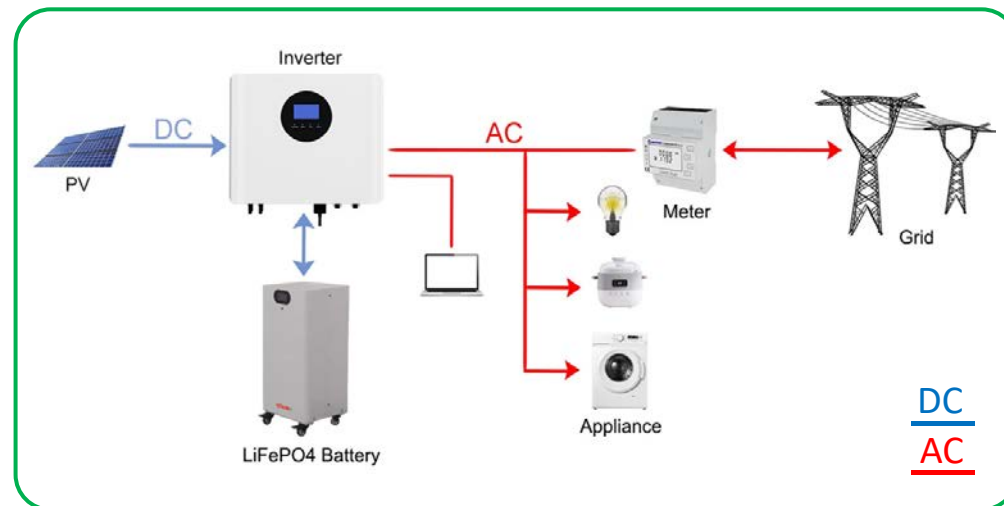


Lithium Iron Phosphate (LiFePO4) Batteries

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 0-21, 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 | | | |
| LPUS48V200 | 48.0V | 200Ah | 485 | 145 | 850 | 95kgs | RS485/CAN | 9.60KWh |
| LPUS48V280 | 48.0V | 280Ah | 485 | 400 | 837 | 117kgs | RS485/CAN | 13.44KWh |
| LPUS48V400 | 48.0V | 400Ah | 485 | 400 | 1025 | 169kgs | RS485/CAN | 19.20KWh |
| LPUS48V200H | 51.2V | 200Ah | 485 | 145 | 850 | 97kgs | RS485/CAN | 10.24KWh |
| LPUS48V280H | 51.2V | 280Ah | 485 | 400 | 837 | 119kgs | RS485/CAN | 14.34KWh |
| LPUS48V300H | 51.2V | 300Ah | 485 | 400 | 837 | 134kgs | RS485/CAN | 15.36KWh |
| LPUS48V320H | 51.2V | 320Ah | 485 | 400 | 837 | 149kgs | RS485/CAN | 16.38KWh |
| LPUS48V400H | 51.2V | 400Ah | 485 | 400 | 1025 | 171kgs | RS485/CAN | 20.48KWh |



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

LiFePO4 Lithium-ion Battery Pack



LPSB Series Stackable Brick

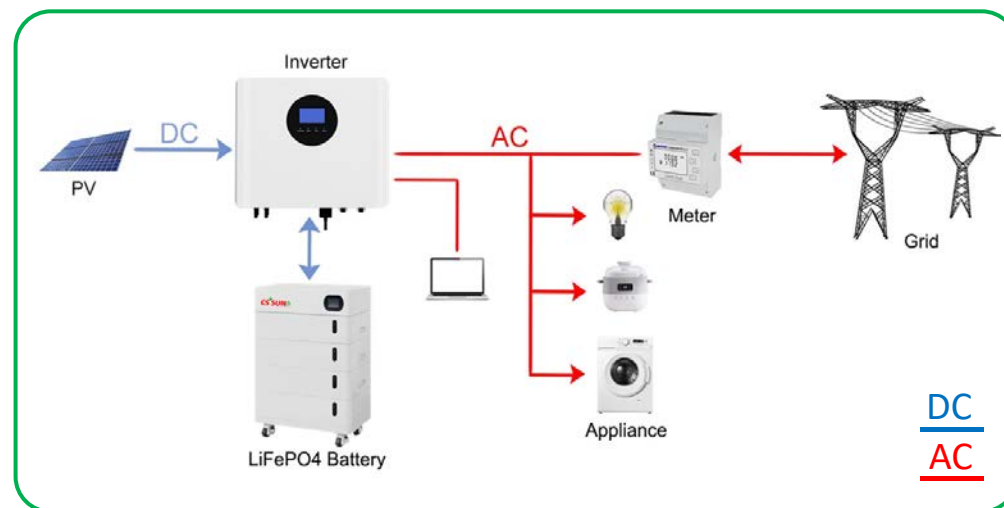


Lithium Iron Phosphate (LiFePO4) Batteries

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.

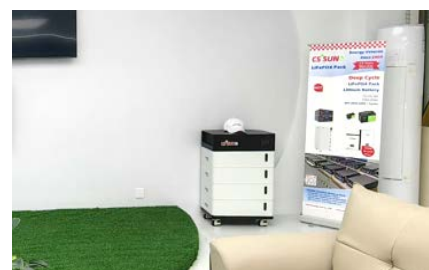
Product Features

- **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

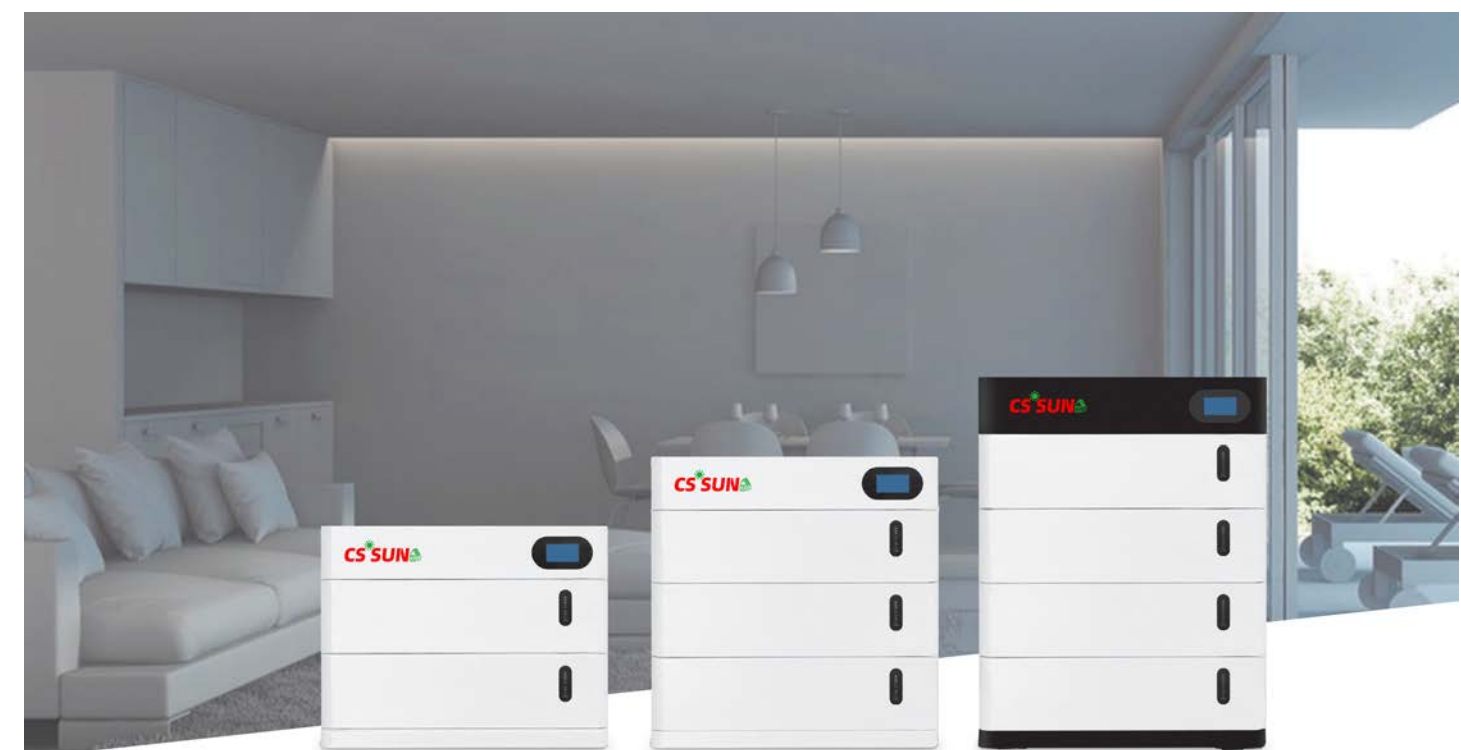
- Overcharge detection function
- Over discharge detection function
- Over current detection function
- Short circuit detection function
- High Temperature protection
- Low Temperature protection
- Cell Voltage Balance function

Standards

- IEC62619
- MSDS, UN38.3
- DG Packing Certification
- Passed ISO9001, ISO4001
- CE, CEI 0-21, 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 | 9.60KWh |
| 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

LiFePO4 Lithium-ion Battery Pack



LPSBH Series Stackable Brick HV

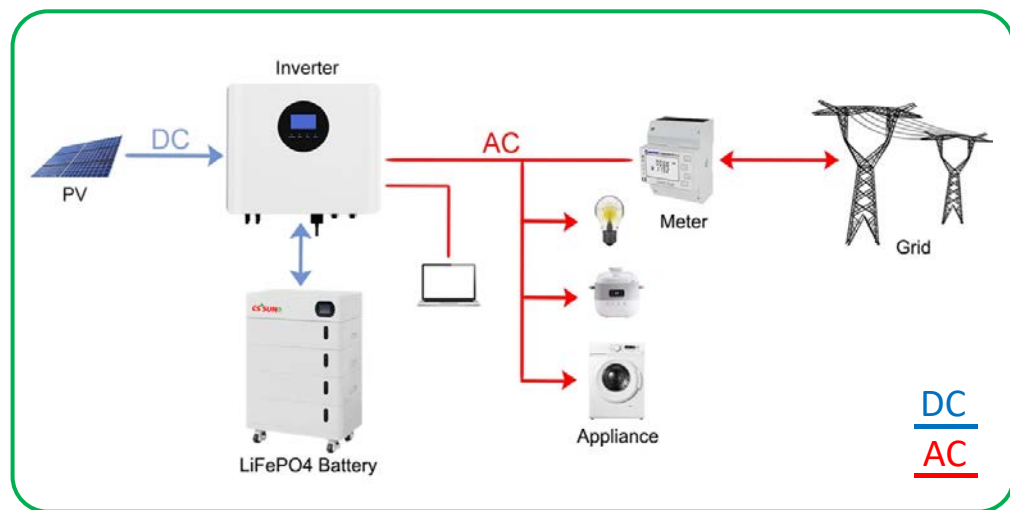


Lithium Iron Phosphate (LiFePO4) Batteries

CSSUN'S LPSBH Series high-voltage lithium battery brick features a stackable design for easy integration into a variety of applications. With a voltage of 102V up to 512V, this battery is ideal for use in renewable energy systems and other high-power applications. The advanced lithium-ion technology provides exceptional energy density and longevity, making it an excellent choice for both residential and commercial use. Additionally, our server brick battery with lifepo4 technology provides a reliable and stable power source for data centers and other demanding environments. Made with high-quality materials and advanced manufacturing techniques, these batteries offer unmatched performance and durability.

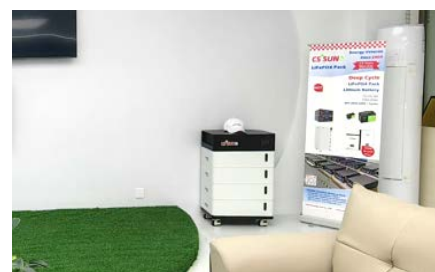
Product Features

- **Modular Scalability:** Allows seamless scalability from small to large energy storage systems, accommodating varying power demands.
- **High Energy Density:** Provides efficient energy storage in limited space, suitable for applications requiring compact solutions like server racks and renewable energy systems.
- **Advanced Safety Features:** Incorporates comprehensive safety mechanisms such as overcharge and over-discharge protection, ensuring safe and reliable operation.
- **Long Lifecycle and Durability:** Engineered for extended service life with minimal degradation, reducing maintenance costs and enhancing system reliability.
- **Integration Flexibility:** Designed for easy integration into diverse applications including solar energy and UPS systems, offering flexibility and compatibility across different setups.



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 | LPSBH204V50 10KWh | LPSBH307V50 15KWH | LPSBH409V50 20KWH | LPSBH512V50 25KWH |
|------------------------|----------------------|----------------------|----------------------|----------------------|
| Nominal Voltage | 204V | 307V | 409V | 512V |
| Rated Capacity | 50Ah | 50Ah | 50Ah | 50Ah |
| Charge Cut-Off Voltage | 232V | 350V | 466V | 583.4V |
| Discharge End Voltage | 169V | 255V | 339V | 424.4V |
| Communication Mode | RS485/CAN | RS485/CAN | RS485/CAN | RS485/CAN |
| Dimension (mm) | 580*360*570mm | 580*360*720mm | 580*360*870mm | 580*360*1020mm |
| Weight (kgs) | 100kgs | 146kgs | 192kgs | 238kgs |



Bluetooth OPT

- BMS Self-developed
- Host Integrated High voltage module
- Power Expansion Freely
- Automotive Grade Process
- Logo Customization
- Easy Installation

LiFePO4 Lithium-ion Battery Pack



LPSS Series Stackable Slim

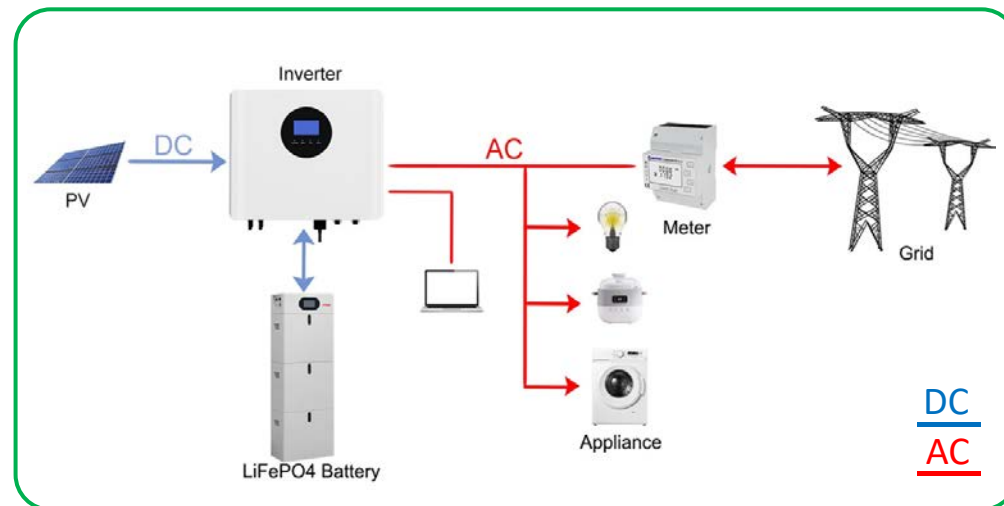


Lithium Iron Phosphate (LiFePO4) Batteries

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



LPSSH Series Stackable Slim HV

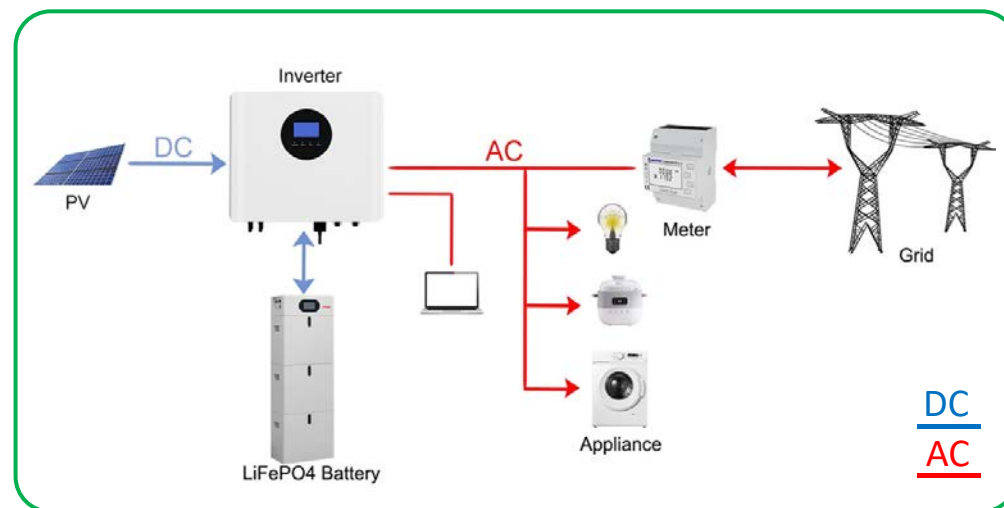


Lithium Iron Phosphate (LiFePO4) Batteries

CSSUN'S LPSSH Series high-voltage lithium battery Slim brick features a stackable design for easy integration into a variety of applications. With a voltage of 102V up to 512V, this battery is ideal for use in renewable energy systems and other high-power applications. The advanced lithium-ion technology provides exceptional energy density and longevity, making it an excellent choice for both residential and commercial use. Additionally, our server brick battery with lifepo4 technology provides a reliable and stable power source for data centers and other demanding environments. Made with high-quality materials and advanced manufacturing techniques, these batteries offer unmatched performance and durability.

Product Features

- **Slim Modular Scalability:** Allows seamless scalability from small to large energy storage systems, accommodating varying power demands.
- **High Energy Density:** Provides efficient energy storage in limited space, suitable for applications requiring compact solutions like server racks and renewable energy systems.
- **Advanced Safety Features:** Incorporates comprehensive safety mechanisms such as overcharge and over-discharge protection, ensuring safe and reliable operation.
- **Long Lifecycle and Durability:** Engineered for extended service life with minimal degradation, reducing maintenance costs and enhancing system reliability.
- **Integration Flexibility:** Designed for easy integration into diverse applications including solar energy and UPS systems, offering flexibility and compatibility across different setups.



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 | LPSSH204V50 10KWh | LPSSH307V50 15KWH | LPSSH409V50 20KWH |
|------------------------|----------------------|----------------------|----------------------|
| Nominal Voltage | 204V | 307V | 409V |
| Rated Capacity | 50Ah | 50Ah | 50Ah |
| Charge Cut-Off Voltage | 232V | 350V | 466V |
| Discharge End Voltage | 169V | 255V | 339V |
| Communication Mode | RS485/CAN | RS485/CAN | RS485/CAN |
| Dimension (mm) | 430*230*872mm | 430*230*1233mm | 430*230*1594mm |
| Weight (kgs) | 94kgs | 136kgs | 176kgs |



Bluetooth OPT

- Convenient to expand capacity
- Support Customization
- Automotive-Grade Security Architecture BMS
- Plug and Play
- Fashion Design
- Long Cycle Life

LiFePO4 Lithium-ion Battery Pack

LPWONE Series

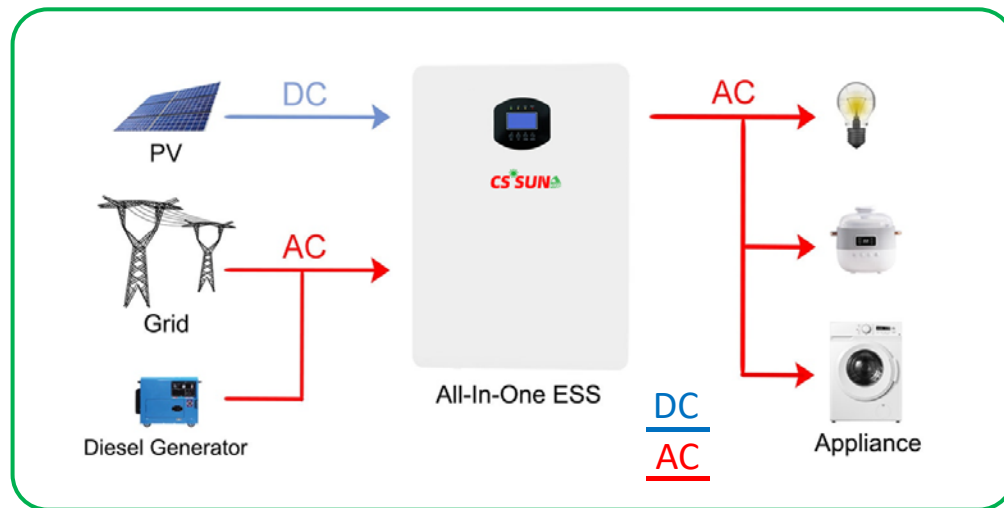


LiFePO4 Batteries + Smart Inverter

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 Solar Hybrid 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 Solar Hybrid Inverter
- Support UPS Function

LiFePO4 Lithium-ion Battery Pack+ Inverter

LPSBONE Series

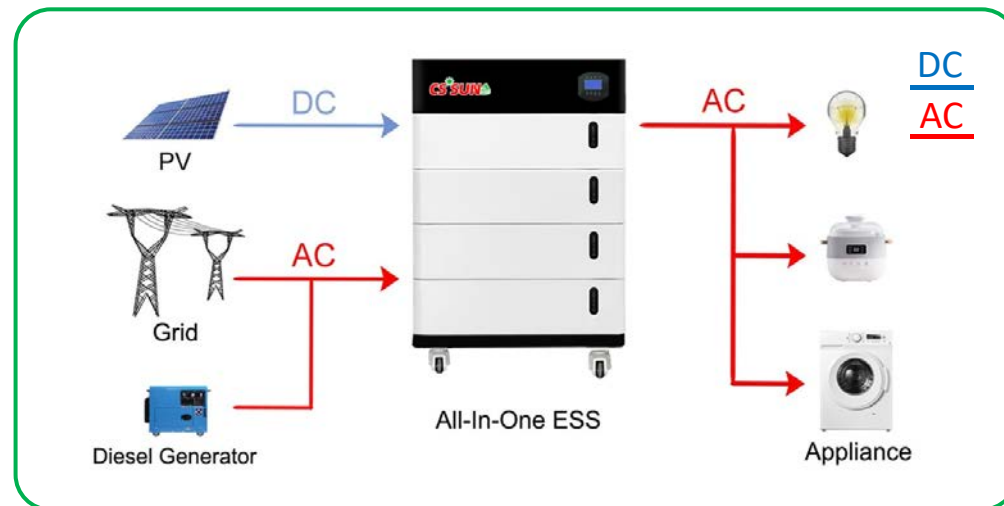


LiFePO4 Batteries + Smart Inverter

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

LPSBHONE Series HV

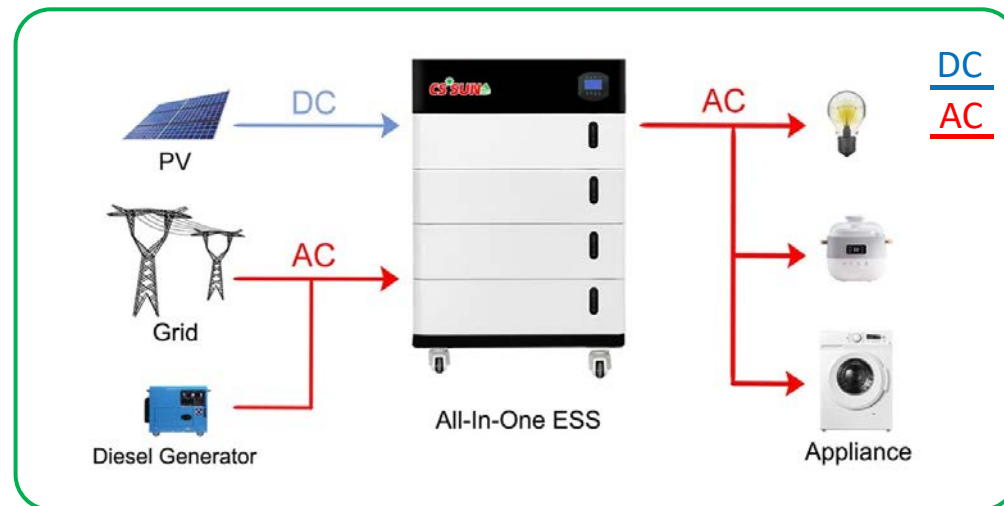


LiFePO4 Batteries + Smart Inverter

CSSUN's LPSBHONE Series High voltage 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 | LPSBHONE 10KWH+10KW | LPSBHONE 15KWH+10KW | LPSBHONE 20KWH+10KW |
|------------------------|---------------------|---------------------|---------------------|
| Nominal Voltage | 204V | 307V | 409V |
| Rated Capacity | 50Ah | 50Ah | 50Ah |
| Charge Cut-Off Voltage | 232V | 350V | 466V |
| Discharge End Voltage | 169V | 255V | 339V |
| Power Storage | 10KWH | 15KWH | 20KWH |
| Inverter Power Rate | 10KW | 10KW | 10KW |
| Waterproof | IP21 | IP21 | IP21 |
| Dimension (mm) | 582*360*705 | 585*360*860 | 585*360*1015 |
| Weight (kgs) | 112.5kgs | 155kgs | 197.5kgs |



- BMS Self-Developed
- Host Integrated High Voltage module
- Power Expansion Freely

- Automotive Grade Process
- Logo Customization
- Easy Installation

LPSSONE Series

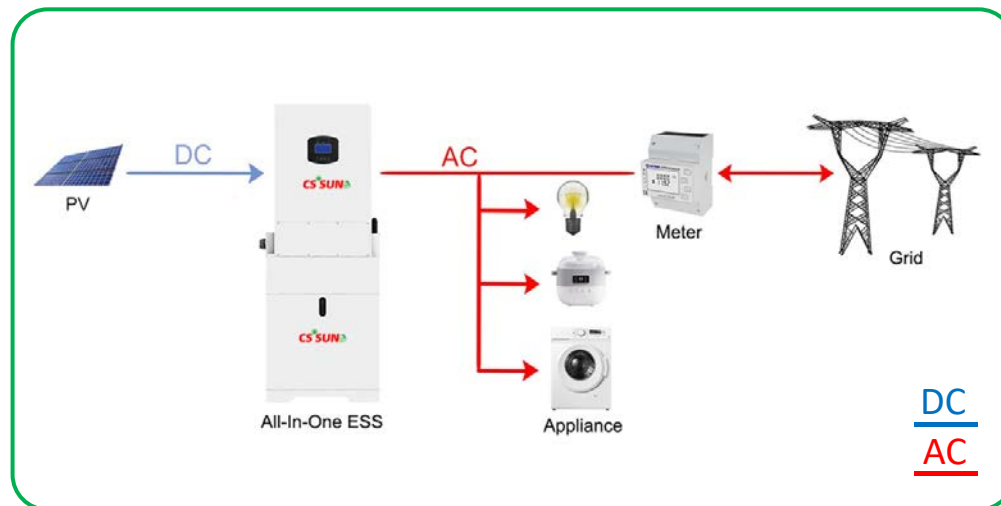


LiFePO4 Batteries + Smart Inverter

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

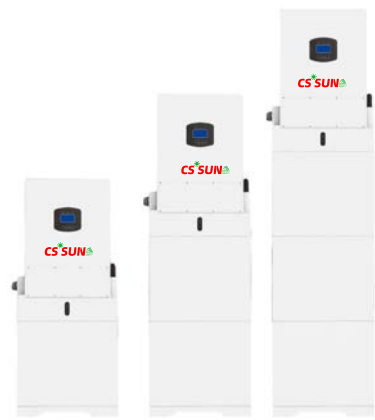
| Model | LPSSONE 5KWH+5KW | LPSSONE 10KWH+5KW | LPSSONE 15KWH+5KW |
|---------------------|------------------|-------------------|-------------------|
| Nominal Voltage | 51.2V | 51.2V | 51.2V |
| Rated Capacity | 100Ah | 200Ah | 300Ah |
| Power Storage | 5.12KWh | 10.24KWh | 15.36KWh |
| Inverter Power 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



LPSSHONE Series HV

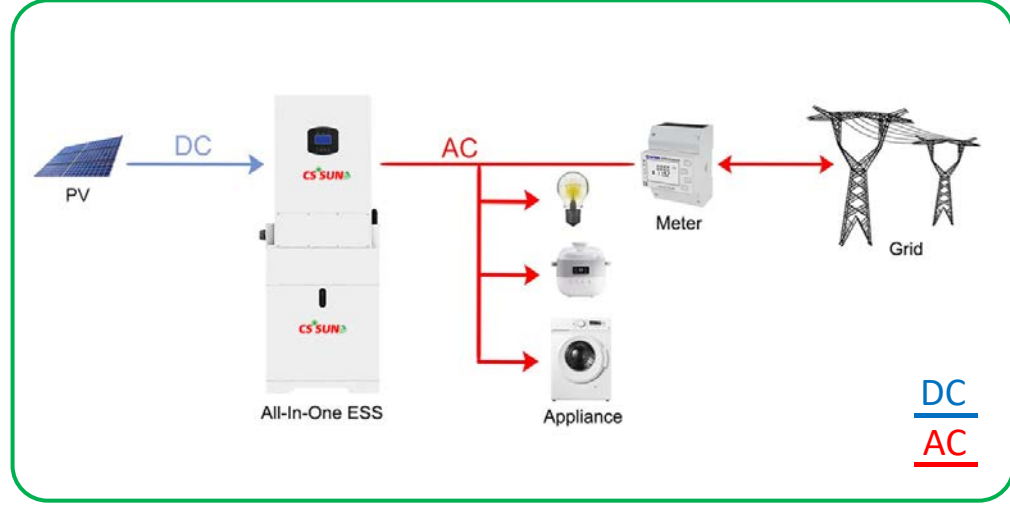


LiFePO4 Batteries + Smart Inverter

CSSUN's LPSSHONE 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 | LPSSHONE 10KWH+5KW | LPSBHONE 15KWH+5KW | LPSSHONE 20KWH+5KW |
|------------------------|--------------------|--------------------|--------------------|
| Nominal Voltage | 204V | 307V | 409V |
| Rated Capacity | 50Ah | 50Ah | 50Ah |
| Charge Cut-Off Voltage | 232V | 350V | 466V |
| Discharge End Voltage | 169V | 255V | 339V |
| Power Storage | 10KWH | 15KWH | 20KWH |
| 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*1491mm | 430*230*1850mm | 430*230*2210mm |
| Weight (kgs) | 115kgs | 160kgs | 205kgs |



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

LiFePO4 Lithium-ion Battery Pack+ Inverter

LPBONE ONE Series Balcony

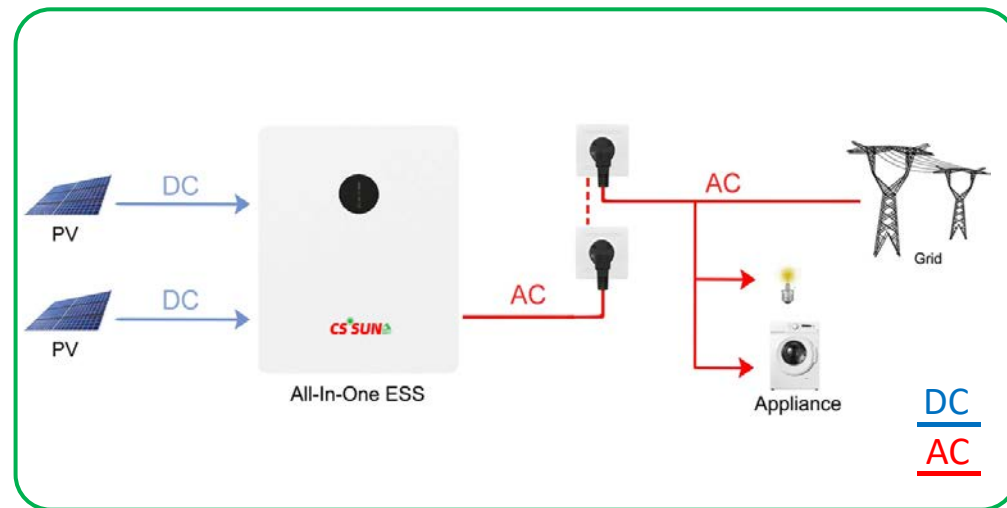


LiFePO4 Batteries + Smart Inverter

CSSUN's LPBONE Series Balcony Plug-and-Play ESS is a compact, lightweight energy storage system ideal for apartment balconies. It integrates an inverter, MPPT charger, AC charger, and LiFePO4 battery, providing safe and efficient energy storage. Easy to install and smart app-controlled, it supports self-consumption and grid feedback, offering a customizable work mode.

Product Features

- **Effortless Installation:** The Balcony Plug-and-Play ESS system is designed for easy, straightforward installation. Users can set it up without professional assistance, making it ideal for those who live in apartments or places with limited space.
- **All-in-One Design:** This unit combines an inverter, MPPT charger, AC charger, and a LiFePO4 battery into a single, compact system. This integration not only saves space but also enhances the efficiency and reliability of the energy storage solution.
- **Smart Control:** Equipped with a smart app, the system allows users to monitor and manage their energy storage remotely. The app provides real-time data on energy usage, battery status, and system performance, ensuring users stay informed and in control.
- **Enhanced Safety:** Featuring a reliable LiFePO4 battery, the system ensures safe operation. LiFePO4 batteries are known for their stability, long lifespan, and high safety standards, providing users with peace of mind regarding their energy storage.
- **Customizable Operation:** The system supports programmable work modes and charging times, allowing users to optimize energy usage based on their needs and preferences. This flexibility ensures maximum efficiency and cost savings.



Applications

- Home Power System
- Solar Energy Storage System
- Wind Energy Storage System
- UPS, backup power
- Small Telecommunication
- Little 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 | LPBONE 2.56KWH+1KW | LPBONE JA 2.56KWH+1KW |
|----------------------------|--------------------|-----------------------|
| Battery Voltage | 25.6V | 25.6V |
| Rated Capacity | 100Ah | 100Ah |
| Battery Energy | 2.56KWh | 2.56KWh |
| Hybird Inverter Power Rate | 1KW | 1KW |
| Rated Power | 800W or 600W | 800W or 600W |
| PV Rate Power | 1000W | 1000W |
| MPPT Voltage Range | 20~50Vdc | 20~50Vdc |
| Waterproof | IP65 | IP65 |
| AC Voltage | 230Vac | 110Vac(Japan/America) |
| Dimension (mm) | 505*105*690mm | 505*105*690mm |
| Weight (kgs) | 31kgs | 31kgs |



- All-IN-One(Battery + Hybird Inverter)
- IP65 Waterproof
- Support AC Charge And PV Charge

- Electrician-free installation
- Integrated Solar Hybrid Inverter
- Support UPS Function

LiFePO4 Lithium-ion Battery Pack+ Inverter



AGV/AMR Batteries

Customized Product

Automated Guided Vehicle & Autonomous Mobile Robots



Bluetooth OPT

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 |
| Communication | 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 |
| Communication | 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

LiFePO4 Lithium-ion Battery Pack



Compatible Brand Inverter(Part)

GOODWE  **爱阳储能 iYANG**  

Goodwe **iYANG** **SMA** **Victron**

 **GROWATT**  

Sacolar **GROWATT** **Solis** **PYLONTECH**

 **科士达 KSTAR**  **英威腾 invt**  **Schneider Electric**  **德业 Deye**

KSTAR **INVT** **Schneider** **Deye**

 **Voltronic Power**  **SOFAR SOLAR**  **LUXPOWER^{TEK}**  **FOX ESS**

Voltronic Power **SOFAR** **LUXPOWER** **FOX ESS**

 **MUST 美世乐**  **MEGAREVO**  **SRNE**  **STUDER**

MUST **MEGAREVO** **SRNE** **STUDER**

Off Grid Inverter(part)



Hybrid Inverter(part)





Certificates



**ISO9001, ISO14001, ISO45001,
CE, CB, MH63727-UL, IEC62619, 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%.

Factory Show



CSSUN Projects

| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>US · Customer Export Case New style power wall accumulative shipment reached to 130+ sets</p> |  <p>Canada · Customer Export Case Accumulative shipment of new stack type: 100+sets</p> |  <p>Zhejiang · Domestic Case The cumulative shipment of new right angle models: 300+sets</p> |  <p>South Africa · Export Case Accumulative shipment quantity of right-angle series 800+sets</p> |
|  <p>Peru · Customer Export Case High voltage cabinet 384V cumulative shipment 10+sets</p> |  <p>Europe · Customer Export Case Standing Type shipment to Reach to 200+ Sets</p> |  <p>Shanxi · Customer Export Case 3MWh user side energy storage project</p> |  <p>Germany · Customer Export Case Large ground power station 50MWh+sets</p> |