COSUPER

Suzhou Cosuper Energy Technology Co., Ltd
www.cosuper.com
No. 536 Fangqiao Road,Suzhou,China
+86 0512 68638910
info@cosuper.com

About Cosuper Energy

Pioneering Independent Storage Solutions Since 2014

Cosuper Energy is a high-tech enterprise dedicated to full-chain independent energy storage solutions. We specialize in **residential storage, PV-storage-diesel microgrids, vehicle-mounted systems, and portable energy storage**, serving over **50 countries** worldwide. The core products are widely recognized in markets for high adaptability and stability.

Driven by Innovation & Quality

- R&D Power: Our team makes up 30%+ of our workforce, holding 80+ patents.
- Recognized Excellence: A National "Specialized & New" and "Gazelle" enterprise.
- Global Standards: Certified by ISO9001, IATF16949, and BSCI, with products holding 20+ international certifications such as CE, ETL, UN38.3, etc.
- Core Autonomy: 80% of core components are self-developed.

Smart Manufacturing

Our new **20,000㎡ intelligent base** features fully automated lines and **automotive-grade quality control**. Driven by **"Technology + Smart Manufacturing,"** Cosuper Energy is committed to becoming the global benchmark for energy storage, powering a sustainable future.

Milestones

2014
COSUPER brand was founded.

2016
Online brands UPEOR and SOYOND were established.

2018
National High-Tech Enterprise with 60%+ annual growth for 3 consecutive years.

2020
Nanjing R&D Center co-founded with Wuhan University .

2022
Recognized as a Technology-Based SME and certified as a "Gazelle Company".

2024
Certified ISO 9001, IATF 16949, & BSCI.

2025
launched 20,000㎡ Suzhou base (200K units/year capacity)

2026
Hefei & Wuhan offices established; Planned Morocco factory & offices in Colombia, Nigeria, Myanmar.

Brand Advantages

With consumers' needs as the goal, we follow the idea of "researching one generation, reserving one generation, and mass - producing one generation", strengthen technology decomposition and R & D capabilities, and quickly promote the engineering, productization and marketization of technologies. We keep getting closer to users, and our company's technical products and solutions have unique advantages, providing consumers with high - quality products and continuously bringing surprises to users.

30%
R&D Intensity

80+
Intellectual property and patents.

All-Scenario Solutions
Residential | C&I | RV | Portable

Scalable Manufacturing
20,000 ㎡ Suzhou Base
100K Units/Year Capacity.

End-to-End Care Worry-Free
Consulting · Design
Delivery · Long-term O&M

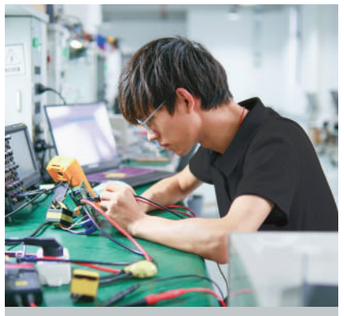

Quality


Testing


Manufacturing


After - sales


Design


R&D

Honorary Qualifications

Intellectual property rights are the core asset of Cosuper Energy, a vital manifestation of innovation capability, and also a barrier for independent innovation. We actively conduct all - round layout and protection of the intellectual property system, publicize and increase the value of intellectual property rights through branding, and promote innovation through intellectual property protection.

- Utility model patents: 40 +

- Invention patents: 20 +

- Enterprise certification certificates: 10 +

- Foreign patents: 10 +

Global Strategy

Cosuper Energy has 4 major business segments:
residential storage, PV-storage-diesel microgrids, vehicle-mounted systems, and portable energy storage.

It covers the entire process from energy harvesting and storage to utilization. Through the supply of green technologies and products, and the promotion of the concept of green energy, it helps green energy be widely used worldwide, striving to cool the Earth by 1°C and promoting the sustainable development of humanity.

Mission and Pursuit

By leveraging the strength of the collaborative innovation team and focusing on improving technical quality, we continuously open up market space, efficiently meet customer needs, and create a large - value cycle ecosystem.

Driving Cosuper Energy to move towards the world and become a benchmark enterprise in the global independent energy storage system field.

Mission Lead and create energy storage to build a low - carbon life.

Vision Global independent energy storage solution provider.

Values Collaboration, innovation, efficiency, and focus.

50+
Countries & Regions Served

1.5 GWh+
Cumulative Global Deliveries

800 tons+
Equivalent CO^2 emission reduction

20,000 m²
Smart Facility,200K Units Annual Capacity

Product > Independent Energy Storage System

Photovoltaic Energy Storage | All-in-one Inverter | Lithium Battery Pack

Independent Energy Storage System

The household off-grid energy storage system differs from grid-connected solar systems. Grid-connected systems feed electricity back to the grid, while off-grid household energy storage systems function when grid supply fails or becomes unstable. Its core component is a photovoltaic inverter, which is paired with energy storage lithium batteries as the system' s backup power source to provide continuous and stable power supply during grid failures.

Multiple Safety Guarantees

- Multiple Safety Guarantees.The most basic protection: Provides full safety protection from installation to use.
- Equipped with a battery management system; standard devices enable intelligent maintenance for worry-free use.

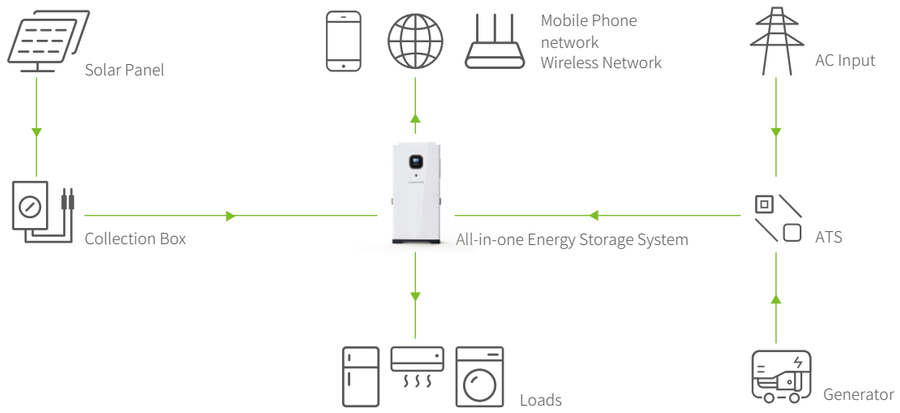
Intelligent Operation and Maintenance

- The system can be monitored via mobile phone APP for real-time data display, intelligent abnormal alarms, and remote management.
- Features full-life-cycle management and early-warning strategies, greatly reducing usage barriers.

Modular Design

- Flexibly adapts to different spatial layouts, supports plug-in-level replacement, and enables convenient maintenance/installation; also compatible with future technology upgrades.
- Modules serve as collection units, enabling easy access/withdrawal, and system structure can be upgraded/optimized in the future.

Schematic Diagram For All in One Energy Storage System



Full-scenario Solution for Home Energy Storage

Cosuper Energy Off-Grid Solar Solutions: **Power Wherever You Are.**
Seamlessly integrating high-performance batteries with advanced solar inverters, our systems deliver reliable, independent electricity tailored to any environment—from remote homes to critical industrial sites."

BES Series
ALL-IN-ONE ENERGY STORAGE SYSTEM

Supports high PV voltage input (60 - 500V)

IP65 Grade

27A
Max PV input current

WIFI connection, APP monitoring

Supports up to 12 units in parallel

Lithium iron phosphate battery, safer

BES Series Product Introduction

Model	BES6200 - 248 - 5kWh	BES6200 - 248 - 10kWh	BES11000 - 248 - 10kWh	BES11000-248-16kWh
Load power	6200W	6200W	11000W	11000W
Total Energy(Wh)	5120Wh	10240Wh		16076Wh
Number of parallel	Up to 12 in parallel (Parallel up to 380VAC output)		Up to 6 in parallel (Parallel up to 380VAC output)	
Solar Input				
Maximum PV Open - circuit Voltage	500VDC			
PV Working Voltage range	60 - 500VDC			
MPPT Voltage Range	60 - 450VDC			
Maximum PV Input Current(A)	27		18*2	
Maximum PV Input Power(W)	6500W		5500W*2	
Maximum PV Charging Current(A)	100A		160A	
Number of MPPT interface	2 way			
AC Input				
Rated input Voltage	230VAC			
Input Voltage Range	UPS Mains Mode:170 - 280VAC±2% / APL Generator Mode:90 - 280V±2%			
Frequency	50Hz/60Hz(Automatic Detection)			
Mains Charging Efficiency	>95%			
AC Output				
Output Voltage Waveform	Pure Sine Wave			
Rated Output Voltage(VAC)	230VAC (Parallel output up to 380VAC)			
Rated Output Power(W)	6200W		11000W	
Peak Power(W)	12400W		22000W	
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz			
Maximum Efficiency	>93%			
Switch Time(Bypass And Inverter)	10ms(Typical Value)			
Maximum Bypass Overload Current	40A			
Protection	Over Voltage, Low Voltage, Over Current, Over Temperature, Low Temperature, Short Circuit			
General Parameters				
Communication Protocol	RS232 Protocol			
IP level	IP65			
Certificate	CE(IEC62109 - 1)			
EMC Certification Level	EB61000,C2			
Operating Temperature(°C)	-10 - 55°C			
Storage Temperature(°C)	-25 -60°C			
Humidity Range	5% to 95%(Conformal Coating Protection)			
Dimension(W*D*H, mm)	565*200*1045	560*200*1160	635*200*1200	635*200*1500
Weight (kg)	70.4KG	111KG	120KG	160KG
Optional Configuration	WIFI module			
Standard Configuration	AC cable(1m), PV input cable(1m)			

Stackable Series
OFF-GRID ENERGY STORAGE SYSTEM

Supports high PV voltage input (60- 450V)

Power supply can be switched automatically and switching time within 10ms

Supports up to 15 units in parallel

Plug and play

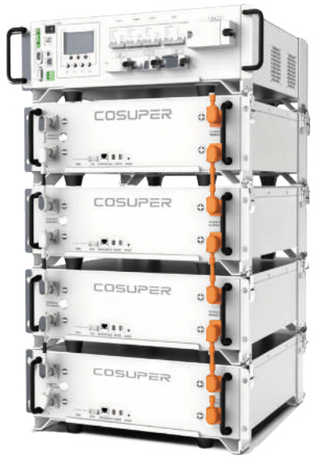
Modular installation simple and safe

Support dry contact starting generator

Rack-mount Series Product Introduction

MODEL	ES5.12			
Battery Parameters				
Battery Type	LFP			
Nominal Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Number of Batteries	1	2	3	4
Nominal Voltage	51.2VDC			
Battery Voltage Range	43.2-58.4VDC			
Maximum Charge and Discharge Current	100A			
IP level	IP20			
Standard Configuration	Battery Cable, 25mm² × 280mm, SC25-M8, 1 Red + 1 Black			
Dimension.L*W*H(mm)	650*430*305	650*430*485	480*433*459	480*433*622
Net Weight (kg)	48	96	144	192
MODEL	**SIF6200-24812H**		**SIF11000-24816H**	
PV Input				
Maximum Input Power	6.5kW		5.5kW*2=11kW	
Input Voltage	550VDC			
MPPT Voltage Range	55~450VDC			
Number of MPPT	1		2	
Maximum MPPT Input Current	27A		18A*2	
Maximum Efficiency	99.00%			
AC Input				
Voltage	230VAC			
Selectable Voltage Range	170 - 280VAC (PC)/ 90 - 280VAC (Home Appliances)			
Frequency Range	50Hz / 60Hz (Auto detection)			
AC Output				
Rated Output Power	6.2kW		11kW	
Surge Power	12kVA		22kVA	
AC Voltage Regulation (Batt.Mode)	230VAC±5%			
Frequency Range	50Hz / 60Hz			
BATTERY & AC CHARGER				
Battery Voltage	48VDC			
Floating Charge Voltage	54VDC			
Overcharge Protection	61VDC			
Maximum charge current	80A		120A	
General				
Storage Temperature	-10°C~+60°C			
Certificate	CE			
IP level	IP20			
Communication	RS485			
Dimension.L*W*H(mm)	650*430*150			
Net Weight (kg)	19.6		25	
Optional Configuration	WIFI module			

Rack-mount Series
OFF-GRID ENERGY STORAGE SYSTEM



Scalable up to 66 kW, 76.8 kWh

Power supply can be switched automatically and switching time within 10ms

Flexible expansion of battery modules, simplified maintenance

Supports high PV voltage input (60-450V)

Modular installation simple and safe

Support dry contact starting generator

Rack-mount Series Product Introduction

MODEL	ES5.12			
Battery Parameters				
Battery Type	LFP			
Nominal Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Number of Batteries	1	2	3	4
Nominal Voltage	51.2VDC			
Battery Voltage Range	43.2-58.4VDC			
Maximum Charge and Discharge Current	100A			
IP level	IP20			
Standard Configuration	Battery Cable, 25mm² ×180mm, SC25-M6, 1 Red + 1 Black			
Dimension.L*W*H(mm)	650*430*305	650*430*485	480*433*459	480*433*622
Net Weight (kg)	48	96	144	192
MODEL	**SPR6200-24812H**			
PV Input				
Maximum Input Power	6.5kW			
Input Voltage	550VDC			
MPPT Voltage Range	55~450VDC			
Number of MPPT	1			
Maximum MPPT Input Current	27A			
Maximum Efficiency	99.00%			
AC Input				
Voltage	230VAC			
Selectable Voltage Range	170 - 280VAC (PC)/ 90 - 280VAC (Home Appliances)			
Frequency Range	50Hz / 60Hz (Auto detection)			
AC Output				
Rated Output Power	6.2kW			
Surge Power	12kVA			
AC Voltage Regulation (Batt.Mode)	230VAC±5%			
Frequency Range	50Hz / 60Hz			
BATTERY & AC CHARGER				
Battery Voltage	48VDC			
Floating Charge Voltage	54VDC			
Overcharge Protection	61VDC			
Maximum charge current	80A			
General				
Storage Temperature	-10°C~+60°C			
Certificate	CE			
IP level	IP20			
Communication	RS485			
Dimension.L*W*H(mm)	480*433*133			
Net Weight (kg)	15			
Optional Configuration	WIFI module			

ES Series
WALL MOUNTED LITHIUM BATTERY

Lithium iron phosphate battery, safer

Supports up to 15 units in parallel

0.5C charging
1C discharging

⩾6000 cycles*

ES Series Product Introduction

MODEL	ES2.56
Battery Parameters	
Cell Type	LFP
Rated Energy	2.56kWh
Rated Capacity	100Ah
Rated Voltage	25.6VDC
Recommended Depth of Discharge	90%
Operating Ambient Temperature	-10°C ~ +50°C
Storage Temperature	-30°C ~ +65°C
Rated Charge Current@RT	50A
Max Charge Current@RT	100A
Rated Discharge Current@RT	100A
Max Discharge Current@RT	100A
General	
Expansion	Max.15 Units in parallel
IP level	IP31/IP54(Plus version)
Display	Touch screen
Communication	CAN/RS485
Cycle Life	6000*
Interaction	WiFi（Option）
Relative Humidity	0.95
Altitude	<2000m
Protection	Overcharge/Over-discharge/Over-current/Reverse Polarity/Temperature/Short Circuit
Fire Safety	Aerosol（Option）
Certification	UN38.3,CE-EMC
Standard Configuration	Battery Cable, 25mm² × 1m, SC25-M6, 1 Red + 1 Black
Dimension(unit) L*W*H(mm)	375*206.5*340
Weight (N.W.)	23kg

*Test conditions: 0.2C Charging/Discharging @25°C, 80% DOD.

ES Series
WALL MOUNTED LITHIUM BATTERY

Lithium iron phosphate battery, safer

Supports up to 15 units in parallel

0.5C charging
1C discharging

⩾6000 cycles*

ES Series Product Introduction

MODEL	ES5.12	ES10.24
Rated Voltage	51.2Vdc	
Number of battery strings	16strings	
Rated Capacity	100Ah	200Ah
Rated Energy	5120Wh	10240Wh
Number of parallel machines	15parallel	
Cell Type	LiFePO4	
Charge and discharge parameters		
Over-charge Protection Voltage	58.4Vdc	
Over-discharge Protection Voltage	43.2Vdc	
Rated Charge Current@RT	50A	100A
Max Charge Current@RT	100A	200A
Over Charge Protection Release	Discharge/Voltage recovery	
Operating Temp Range	discharge（-20~55°C）, charge (0~55°C)	
Output Voltage Range	43.2 - 58Vdc	
Rated Discharge Current@RT	100A	200A
Max Discharge Current@RT	105A	210A
Over Discharge Protection Release	Charging/Voltage recovery	
Battery protection parameters		
Over-charge protection	3700mV@1s	
Over-charge protection release	3380mV	
Over-charge release method	Cell 3380mV or Discharge	
Over-discharge protection	2800mV@5s	
Over-discharge protection release	2700mV	
Over-discharge release method	Cell 2950mV or Charging	
Over current protection (CHG)	110A@1s/210A@3s	
Over current protection (DISCHG)	150A@20ms/210A@3ms	
Over current release method (CHG)	Remove the charger	
Over current release method (DISCHG)	Cut off loads	
Over temperature - Protection	Protection@70°C/Protection Release@50°C	
Over temperature - Protection	Protection@85°C/Protection Release@64°C	
Parameters		
Communication	CAN/RS485	
IP level	IP31/IP54(Plus version)	
Display	Touch screen	
Interaction	WiFi（Option）	
Fire Safety	Aerosol（Option）	
Operating Temperature Range	Discharge（-20~55°C）, charge (0~55°C)	
Storage Temperature	-15°C to 60°C	
Standard Configuration	Battery Cable, 25mm² × 1m, SC25-M6, 1 Red + 1 Black	Battery Cable, 50mm² × 1m, SC50-M8, 1 Red + 1 Black
Dimension(unit) L*W*H(mm)	635*480*180	1014*620*216
Weight (N.W.)	43kgs	95kgs

*Test conditions: 0.2C Charging/Discharging @25°C, 80% DOD.

ES Series
FLOOR-STANDING LITHIUM BATTERY

Lithium iron phosphate battery, safer

Supports up to 15 units in parallel

Max. discharge: 200 A

⩾8000 cycles*

ES Series Product Introduction

MODEL	ES10.24	ES16.08
Battery Parameters		
Cell Type	LFP	
Rated Energy	10.24kWh	16.08kWh
Rated Capacity	200Ah	314Ah
Rated Voltage	51.2VDC	
Recommended Depth of Discharge	90%	
Operating Ambient Temperature	-20°C ~ +60°C	
Storage Temperature	-30°C ~ +65°C	
Rated Charge Current@RT	100A	
Max Charge Current@RT	150A	
Rated Discharge Current@RT	100A	
Max Discharge Current@RT	200A	
General		
Expansion	Max.15 Units in parallel	
IP level	IP31/IP54(Plus version)	
Display	Touch screen	
Communication	CAN/RS485	
Cycle Life	6000*	8000*
Interaction	WiFi （Option）	
Relative Humidity	0.95	
Altitude	<2000m	
Protection	Overcharge/Over-discharge/Over-current/Reverse Polarity/Temperature/Short Circuit	
Fire Safety	Aerosol（Option）	
Certification	UN38.3,CE-EMC	
Standard Configuration	Battery Cable, 50mm² × 1m,SC50-M8, 1 Red + 1 Black	Battery Cable, 50mm² × 1m,SC50-M8, 1 Red + 1 Black
Dimension(unit) L*W*H(mm)	475*250*680	475*235*900
Weight (N.W.)	107kg	150kg

*Test conditions: 0.2C Charging/Discharging @25°C, 80% DOD.

SNF Series
OFF GRID SOLAR INVERTER

Supports high PV voltage input (55-450V)

Supports three-phase output after single-phase parallel operation

Supports battery-less startup function

WIFI connection, APP monitoring

Supports up to 12 units in parallel

Support dry contact starting generator

SNF Series Product Introduction

MODEL	SNF1500-22406H	SNF2500-22410H	SNF3500-22410H	SNF6200-24812H	SNF11000-24816H
Rated load power	1500W	2500W	3500W	6200W	11000W
parallel function	Without parallel			⩽12 units in parallel, Parallel output 380AC	⩽6 units in parallel, Parallel output 380AC
MAX PV Array Power	2000W	3000W	4000W	6500W	5500W*2=11KW
MPPT input Interaction	1 way				2 way
Battery rated voltage	24VDC	24VDC	24VDC	48VDC	48VDC
Lithium battery activation	Photovoltaic charging activation		Mains&Photovoltaic charging activation		
AC INPUT					
Voltage	230VAC				
Selectable Voltage Range	170 - 280VAC (for personal computers)/90 - 280VAC (for home appliances)				
Frequency Range	50Hz / 60Hz (Auto detection)				
AC OUTPUT					
AC Voltage Regulation(Batt.Mode)	230VAC±5%				
Surge power	3000W	5000W	7000W	12000W	22000W
Transfer Time	10ms (for personal computers)/20ms (for home appliances)				
BATTERY & AC CHARGER					
Battery Voltage	24VDC	24VDC	24VDC	48VDC	48VDC
Floating Charge Voltage	27VDC	27VDC	27VDC	54VDC	54VDC
Overcharge Protection	31VDC	31VDC	31VDC	61VDC	61VDC
Maximum charge current	60A	60A	80A	80A	120A
SOLAR CHARGER					
MAX PV Array Power	2000W	3000W	4000W	6500W	5500W*2—11KW
MPPT Range@Operating Voltage	55 - 450VDC				
Maximum PV Array Open Circuit Voltage	500VDC				
Maximum PV Input Current	15A	15A	15A	27A	18A*2
Maximum Charging Current	60A	100A	100A	120A	160A
Maximum Efficiency	99%				
Parameter					
Communication	RS485				
IP level	IP21				
Certificate	CE				
Operating Temperature	-10°C to 55°C				
Storage Temperature	-15°C to 60°C				
Dimension.D*W*H(mm)	358×295×100	358×295×100	358×295×100	450×300×130	537×390×130
Net Weight (kgs)	6	6.5	7	9.6	15
Optional Configuration	WIFI module				

SPE Series
OFF GRID SOLAR INVERTER(US)

Diversified scenarios

Power supply can be switched automatically and switching time within 10ms

Support high PV Voltage Input

MPPT efficiency 99%

Support up to 6 unit in parallel

Support dry contact starting generator

SPE Series (US) Product Introduction

INVERTER OUTPUT	SPE3000-124SP	SPE5000-148SP	SPE6500-148SL	SPE10000-148SL
Rated Output Power	3,000W	5,000W	6500W	10,000W
Max. Peak Power	6,000VA	11,000VA	13,000 VA	20,000W
Rated Output Voltage	120Vac (single-phase)		120/240Vac(single-phase/split-phase)/ three-phase, be paralleled	
Rated AC Frequency	50Hz/60Hz			
Waveform	Pure Sine Wave			
Switch Time	10ms (typical)			
Parallel Capacity	-	-	1~6 units	
BATTERY				
Battery Type	"Lead-acid / Li-Ion / User defined			
Rated Battery Voltage	24Vdc	48Vdc		
Voltage Range	20~33Vdc	40~60Vdc		
Max. MPPT Charging Current	60A	80A	140A	200A
Max. Mains/Generator Charging Current	40A	40A	80A	120A
Max. Hybrid Charging Current	60A	80A	140A	200A
PV INPUT				
Num. of MPPT Trackers	1	1	2	2
Max.PV Array Power	4,000W	6,000W	5000W+5000W	5,500W+5,500W
Max.Input Current	13A	22A	18+18A	22A+22A
Max.Voltage of Open Circuit	500Vdc		550Vdc+550Vdc	500Vdc+500Vdc
MPPT Voltage Range	120-450Vdc		150-450Vdc	125~425Vdc
UTILITY / GENERATOR INPUT				
Input Voltage Range	90~140Vac			
Frequency Range	50/60Hz			
Bypass Overload Current	63A			
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max. Battery Inverter Efficiency	92%	92%	93%	92%
GENERAL				
Dimensions	376*280*103mm	426*322*126mm	584.6*410*133 mm	620*445*130mm
Weight	8kg	11.6kg	18.9 kg	27kg
Protection Degree	IP20, indoor only			
Operating Temperature Range	-10°C~55°C			
Noise	⩽60dB			
Cooling Method	Forced air cooling with adjustable air speed			
COMMUNICATION				
Embedded Interaction	RS485 / USB / Dry contact		RS485/CAN/USB/dry contact	
External Modules (Optional)	Wi-Fi / GPRS			

Product Section >

PV-Storage-Diesel Microgrid System

PV-Storage-Diesel Microgrid System

The integrated PV - energy storage - diesel generation power supply solution integrates photovoltaic, energy storage and diesel power generation systems. Photovoltaic modules convert solar energy into electricity, and surplus electricity is stored in energy storage batteries during the day; at night or on cloudy days, the system automatically switches to battery power supply; if the energy storage is insufficient, the diesel generator set starts to supplement energy to ensure stable and reliable electricity. This solution is suitable for scenarios such as power - free areas and islands.

Intelligent and Efficient

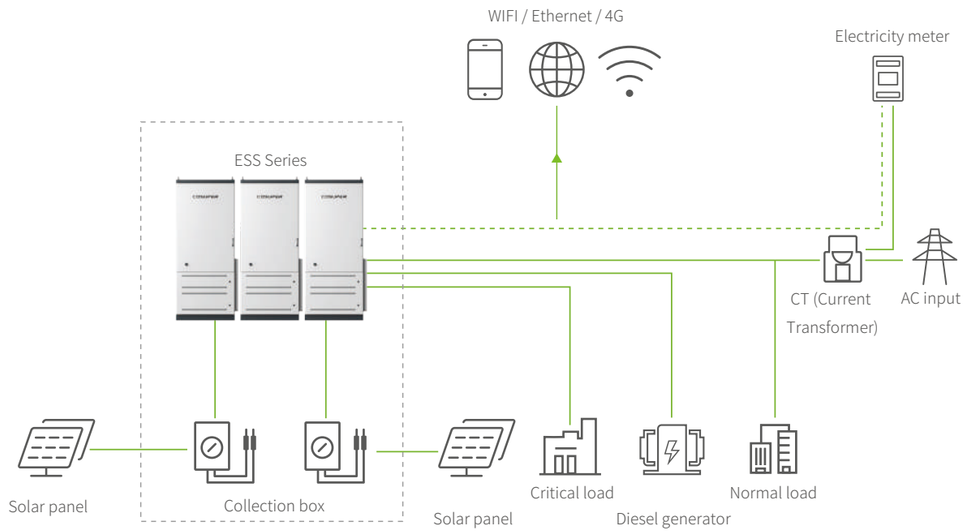
- One - source - one - management, an intelligent energy monitoring cloud platform for remote monitoring and control, enabling intelligent charging and peak load reduction.
- Module output power is adjustable, charging power is configurable, and grid adaptability is strong.

Better Experience

- Modular design, plug - and - play, highly integrated, capacity selectable, and flexible in application.
- Ultra - high energy density, small size, convenient for installation and transportation.

Multiple Protections

- Real - time monitoring and early warning for battery cells to prevent thermal runaway and eliminate fire hazards.
- Sensors monitor ambient temperature, smoke, and CO concentration in real time to block risks.



Photovoltaic, Energy Storage and Diesel Generation Energy Storage

Cosuper Energy has developed a new generation of battery energy storage system products based on full - scenario coverage and full - ecological adaptation;

It features highly modular design, high integration, convenience, flexibility, and economic efficiency. Equipped with high - performance lithium iron phosphate batteries, it has four super performances: super safety, super long lifespan, super high energy density, and super strength.

ESS-50
PV-Storage-Diesel Microgrid System

Integration of PV, energy storage, and diesel generation

Automatic switching between grid-connected and off-grid loads

50KW high-power PV input

Fast installation and deployment

Up to 4 units for parallel operation

Simple and easy to use

ESS -50 Product Introduction

BESS Model	ES 51.2
Capacity	51.2kWh(5.12kWh*10)
Nominal Voltage	512V
Nominal Capacity	100AH
Cabinet Size (mm)	640*830*1900
Weight (kg)	750KG
Charge/discharge power MAX	100A
Cooling method	Air-cooled
Protection class	IP54
Type of firefighting	Aerosol
Battery Module Specification	
Battery Types	51.2V-100AH
Nominal Capacity (KWh)	5.12KWh
Recommend Charge/Discharge Current (A)	50
Max. Charge/Discharge Current (A)	100
Communication	RS485/CAN
Working Temperature	0°C~50°C（Charge）；-10°C~50°C（Discharge）
Transport or Storage Temperature Range	-20°C~60°C
Certification	CE/IEC/UL/UN38.3/MSDS
Design Life	10years+
Cycle Life	(0.5C/0.5C-80% DOD)>6000 times
Cooling method	Air-cooled
Certification	UN38.3/MSDS/ROHS
Inverter	
Rated Power	25KW
Overloaded	110%
Rated AC Voltage	3L/N/PE Three Phase
Rated frequency	50/60Hz

ESS-112
PV-Storage-Diesel Microgrid System

Integration of PV, energy storage, and diesel generation

Automatic switching between grid-connected and off-grid loads

100KW high-power PV input

Fast installation and deployment

Up to 4 units for parallel operation

Simple and easy to use

ESS -112 Product Introduction

BESS Model	ES 112-HVLC
Capacity	112.5kWh-HV (16.08kWh*7)
Nominal Voltage	358.4V
Nominal Capacity	314AH
Cabinet Size (mm)	900x1250x2258
Weight (kg)	1200KG
Charge/discharge power MAX	150A
Cooling method	Air-cooled
Protection class	IP54
Type of firefighting	Aerosol
Battery Module Specification	
Battery Types	51.2V-314AH
Nominal Capacity (KWh)	16.08KWh
Recommend Charge/Discharge Current (A)	100
Max. Charge/Discharge Current (A)	150
Communication	RS485/CAN
Working Temperature	0°C~50°C（Charge）；-10°C~50°C（Discharge）
Transport or Storage Temperature Range	-20°C~60°C
Certification	CE/IEC/UL/UN38.3/MSDS
Design Life	10years+
Cycle Life	(0.5C/0.5C-80% DOD)>6000 times
Cooling method	Air-cooled
Certification	UN38.3/MSDS/ROHS
Inverter	
Rated Power	50KW
Overloaded	110%
Rated AC Voltage	3L/N/PE Three Phase
Rated frequency	50/60Hz

ESS-261
PV-Storage-Diesel Microgrid System

Peak shaving and valley filling, peak-valley arbitrage

Automatic switching between grid-connected and off-grid loads

Transformer-free, automatic unbalanced output

Quick installation and deployment

Small size, light weight

Simple and easy to use

ESS -261Product Introduction

BESS Model	ES 261-HVLC
Capacity	261kWh(52.25kWh*5)
Nominal Voltage	832V
Nominal Capacity	314AH
Cabinet Size (mm)	1000*1350*2400
Weight (kg)	2750KG
Charge/discharge power MAX	157A
Cooling method	Liquid-cooled
Protection class	IP54
Type of firefighting	Aerosol
Battery Module Specification	
Battery Types	166.4V-314AH
Nominal Capacity (KWh)	52.249KWh
Recommend Charge/Discharge Current (A)	157
Max. Charge/Discharge Current (A)	157
Communication	RS485/CAN
Working Temperature	0°C~50°C（Charge）；-10°C~50°C（Discharge）
Transport or Storage Temperature Range	-20°C~60°C
Certification	CE/IEC/UL/UN38.3/MSDS
Design Life	15years+
Cycle Life	(0.5C/0.5C-80% DOD)>6000 times
Cooling method	Liquid-cooled
Certification	UN38.3/MSDS/ROHS
Inverter	
Rated Power	125KW
Overloaded	110%
Rated AC Voltage	3L/N/PE Three Phase
Rated frequency	50/60Hz

Product Section > Portable Energy Storage

Portable Power station SP 1000 / SP2000

SP1000

SP2000

Large - capacity charging station

1.5 - hour fast charging

Simple and easy to use

Supports PV input for charging at any time

High - power AC output

More than ten protection functions for higher safety

SP1000 / SP2000 Product Introduction

SP 1000					
Output Specification					
AC Outlet×2	110V 60Hz or 220V 50Hz, 1000W				
Peak Power	2000W	USB - A×3	QC3.0, 5 - 12V, Max. 18W	Car Outlet×1	11 - 14V / Max. 10A
DC Outlet×2	12V 5A	Type - C×1	PD3.0, 5 - 20V, Max. 100W	Wireless Charging	15W
Input Specification					
DC Input×2	12V 10A	Battery Capacity	1058Wh	Radio	87.5 - 108MHz
Type - C Port×1	5 - 20V; Max. 100W	Battery Type	LiFePO4	Spotlight	2W
Charging Time	9h	Cycle Life	MAX 3000 cycles to 80% capacity		
General					
Weight	14KG	Package Weight	16.2KG		
Dimension	330x260x230mm	Package Dimension	440x320x290mm		

SP 2000			
Output Specification		Input Specification	
AC Outletx3	110V 60Hz or 220V 50Hz, 2400W	AC Inputx1	1500W, full charge time≈1.5h
Peak Power	4000W		800W, full charge time≈2.5h
DC Outletx2	12V/ Max. 8A	DC Inputx1	12V/ 24V, MAX. 8A
USB - Ax3	QC3.0, 3.7 - 20V, Max. 24W	Solar Input	15 - 100V,
Type - Cx3	PD3.0, 5 - 20V, Max. 65W		Max. 400W (Interface Type: XT60EW - M)
Car Outletx1	12.6V±1V, Max. 8A	Type - C Portx3	5 - 20V; Max. 100W

Battery		General			
Battery Capacity	2016Wh	Weight	29.5KG	Package Weight	31KG
Battery Type	LiFePO4	Dimension	420x331x270mm	Package Dimension	550x440x330mm
Cycle Life	>2000 cycles to 80% capacity				

Portable Power station NE Series / NP Series

NE Series

Portable mobile power supply | Handheld emergency lighting | Small size and light weight | Supports PV input for charging at any time

NP Series

Portable mobile power supply | Handheld emergency lighting | Small size and light weight | Supports PV input for charging at any time

NE Series / NP Series Product Introduction

NE Series					
Output Specification		Input Specification		Battery	
DC Outlet x3	3.7V Max.1A	DC Input x2	5V 2A	Battery Type	NCM
USB - Ax2	5V 2A	Type - Cx1	9V 2A, Max. 18W	Capacity	3.7V 15000mAh(55.5Wh)
Type - Cx1	PD3.0, 5-12V, Max. 3A	Charging Time	3.5h	Cycle Life	>800 cycles to 80% capacity
General					
Solar Panel x2	5W	Dimension	162x162x70mm	Package Dimension	285x183x147mm
Weight	0.6KG	Package Weight	1.95KG	LED Light x3	3W(WHITE)

NP Series					
Output Specification		Input Specification		Accessories	
DC Outlet x3	3.7V 1A	DC Input x2	5V 2A	Solar Panel x2	5W
USB - Ax2	5.0V 2A			LED Light x3	3W
TYPE - Cx1	PD3.0, 5V, Max. 10W			Adapter x1	10W
Battery		Function			
Battery Type	NCM	USB drive	USB 2.0	Radio	87.5 - 108MHz
Capacity	3.7V 8000mAh(29.6Wh)	Speaker	4Ω2W	Spotlight	2W
Cycle Life	>800 cycles to 80% capacity	Bluetooth	Bluetooth V5.0+ BLE		
General					
Dimension	206x132x82mm	Package Dimension	290x185x150mm		
Weight	0.7KG	Package Weight	2.05KG		

Case Studies

- Home Energy Storage Application Case
- PV-Storage-Diesel Energy Storage Application Cases

Residential Energy Storage Application Cases

Residential Energy Storage Application Cases

PV-Storage-Diesel Energy Storage Application Cases

Scale: 50kW/112kWh
Function: A resilient, off-grid microgrid, integrating solar, storage, and diesel to overcome grid instability and cut fuel costs.

Scale: 50kW/112kWh
Function: Designed for grid instability and high fuel costs, it delivers reliable, automated power.

Scale: 125kW/336kWh
Function: A robust system deployed for solar-powered agricultural irrigation in remote farming region.

Scale: 125kW/261kWh
Function: Peak Shaving and Vally filling; Reduce long-term energy costs