



To bring clean energy to every household

Shenzhen Youess Energy Storage Technology Co., Ltd

Tel:0086-755-28502100

Email: info.CN@youess.com

Website: www.suness.com



Technical data are subject to change without notice.



PRODUCT CATALOG

Energy Storage System Solutions



www.suness.com

2026-2027

Company Profile

Shenzhen Youess Energy Storage Technology Co.,Ltd

Shenzhen YUESS Energy Storage Technology Co., Ltd. (**SUNESS**), is a new energy company specializing in the R&D, manufacturing, sales, and global service for lithium battery energy storage systems. The company operates a **10,000 m²** production facility and is supported by a management team with over **20 years** of industry experience and an R&D team with more than **10 years** of expertise, delivering safe, efficient, and intelligent energy storage solutions worldwide. SUNESS provides a full range of products, including residential and commercial & industrial energy storage systems, liquid-cooled ESS, hybrid inverters, and Energy Management Systems (EMS). Our products are certified by **UL, CE, IEC, UN38.3, MSDS, and ISO**, and have been exported to **80+** countries and regions, with a total shipment volume exceeding **3,000 MWh**, widely used in residential, C&I, telecom, grid, and renewable energy projects.



Enterprise core values:

Passion Perseverance Pragmatism Excellence



Corporate mission:

To bring clean energy to every household



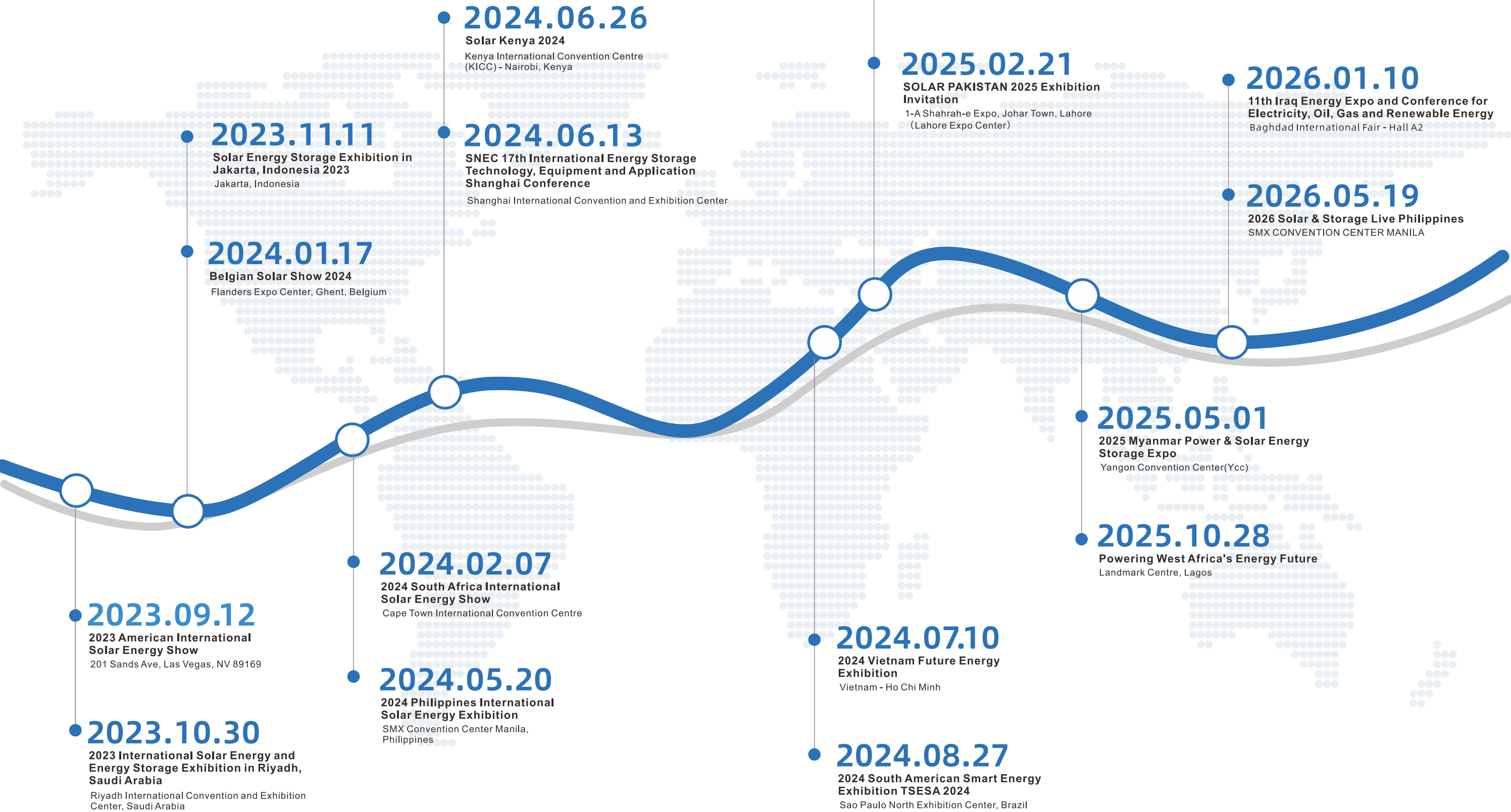
Corporate vision:

To become a global leader in intelligent energy



ENERGY STORAGE EXHIBITIONS

Global Exhibitions



Why Choose SUNESS?

10+

10+ Years of R&D Expertise



10,000 m² Smart
Manufacturing Base

OEM/ODM

Complete OEM & ODM Solutions



Overseas Warehouses &
Fast Delivery



UL, CE, IEC, UN38.3, MSDS & ISO
Certified



Grade-A Battery Cells & Advanced
BMS



Global Technical & After-Sales
Support



Professional Solar & ESS Solutions



iESS-EnerD

Utility-Scale Energy Storage Battery

5.015MWh

> **System Configuration:**

314Ah/1331.2V

CE UN38.3



Product Data Sheet >>>

Model	iESS-Ener D
Cell type	LiFePO4 Battery
Cell parameter	3.2V/314Ah
Configuration	(1P52S*8)*12
Rated capacity	5.015 MWh
Nominal voltage	1331.2V
Voltage range	1164.8~1497.6V
Rated Charge Power	2.5MW
Rated discharge power	2.5MW
Auxiliary electrical parameter	400V AC+5% 50Hz
Storage temperature	-35~60°C
Operating temperature range	-30~60°C
Altitude	≤4000m (>4000 mderating)
Cooling method	Liquid cooling
Operating humidity range	≤95% RH, non-condensing
Noise level	<80dB(A), @1m/ 75dB(optional)
Ingress protection	IP55
System Communication Interface	PCS:CAN/RS485;EMS:IEC61850
Coolant	50% Glycol aqueous solution
Dimension (W*D*H,mm)	6250x2550x3100
Weight [t]	≈38t

Product Feature >>>

High Level of Safety

- LiFePO4 Battery batteries with high thermal stability and an IP55 enclosure suitable for outdoor applications.
- Corrosion resistance up to C5. Designed for 20 years of reliable operation.
- Prevention-oriented fire protection strategy, with a separate fire protection system

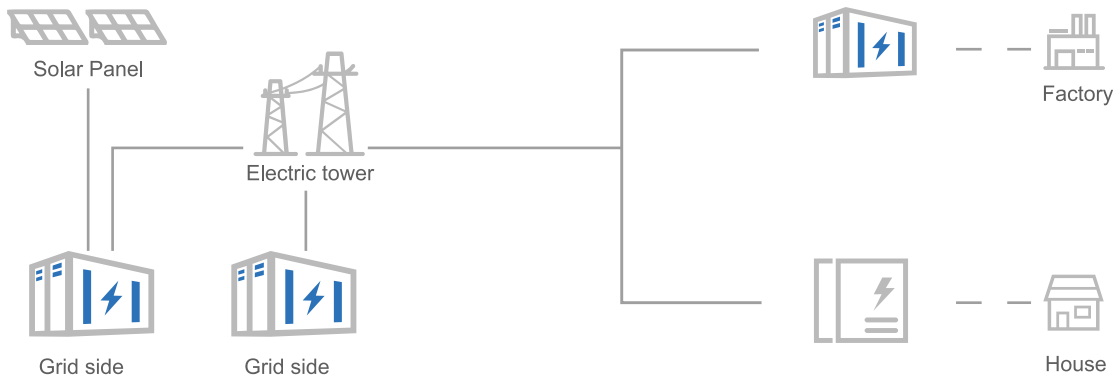
CERTIFICATE



High Integration

- Modular design for the 1,500V system
- Separate arrangement of electrical room and battery room for convenient maintenance
- Non-walk-in/modular design with high integration, saving the floor space by 35%
- Prefabricated installation, reducing on-site installation costs and commissioning time

C&I Energy Storage System



iCab-HVL-Series

C&I Energy Storage Cabinet

80kWh/128kWh

> **System Configuration:**
314Ah/51.2V

CE UN38.3



Product Feature >>>



High Quality Battery Cell

- Ultra-long cycle life of > 8000 cycles ensures over 10 years of reliable energy storage performance.



Robust Environmental Adaptability

- IP55 protection level and wide operating temperature range (-10°C to 55°C) for diverse installation environments.



Intelligent Interaction

- Integrated Touch Screen display and multi-protocol communication (CAN/RS485) for seamless system monitoring.



Superior Safety Standards

- Equipped with Aerosol/Perfluorohexanone
- fire protection and certified by UN38.3, CE, and IEC62619.



High-Efficiency Power Output

- Large capacity of 314Ah with a maximum charge/discharge current of 200A for demanding energy needs.



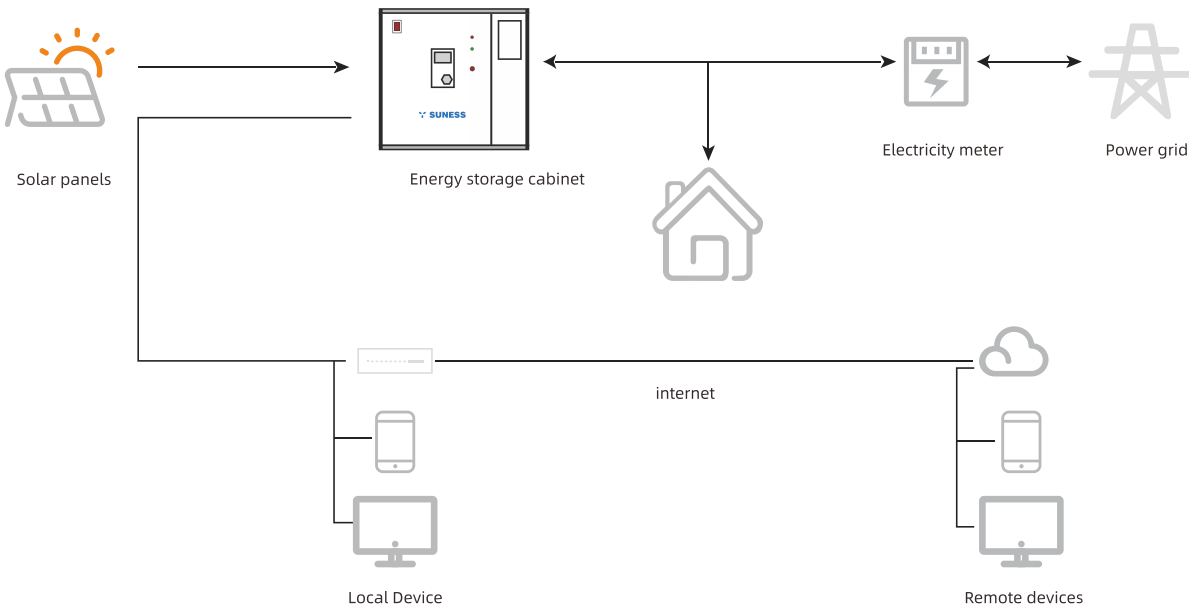
Wide Compatibility

- Fully compatible with leading inverter brands including Deye, Solis, Sosen, Solinteg, Ateess, and Magarevo.

Product Data Sheet >>>

Model	iCab-HVL 80		iCab-HVL 128	
Battery Technical Specification				
Battery Type	LiFePO4 Battery			
Module Voltage/Capacity	51.2V/314Ah			
Module Energy	16.08 kWh			
PACK Quantity	5 PCS		8 PCS	
Weight of High Voltage Control Box	25kg			
Single Module Weight	114kg			
System Specification				
System Energy Range	80 kWh		128 kWh	
Voltage Range	232~288 Vdc		371.2~460.8Vdc	
Communication	CAN/RS485			
Recommended Charge & Discharge Current	157 A			
Max. Charge/Discharge Current	200 A			
Recommended Depth of Discharge	≤95%			
Charging Temperature Range	0~55℃			
Discharging Temperature Range	-10~55℃			
Humidity	0~95%RH (Non-condensing)			
Protection Level	IP55			
Installation Method	Floor-Mounted			
Display	Touch screen			
Cooling Method	Air Cooling			
Fire Protection	Aerosol/Perfluorohexanone			
Altitude	≤3000m (Derating above 2000m)			
Cycle Life	≥8000 cycles			
Dimension (W*D*H,mm)	1800*1150*1700			
Weight Approximate (kg)	1160±100kg		1500±100kg	
Certification & Safety Standard	UN38.3,CE			
Compatible Inverter Brands	Deye/Solis/Sosen/Solinteg/Atess/Magarevo			

C&I Energy Storage System



iCab - Series

C&I Energy Storage All-in-One

261kWh

> **System Configuration:**
314Ah/832V

CE UN38.3



Product Feature >>>

- Suitable for a variety of scenarios**
- Industrial Parks
 - Zero-Carbon/Low-Carbon Parks
 - Substation-Level Energy Storage
 - Storage and Charging/Solar-Powered Storage and Charging
 - Distributed PV with Energy Storage

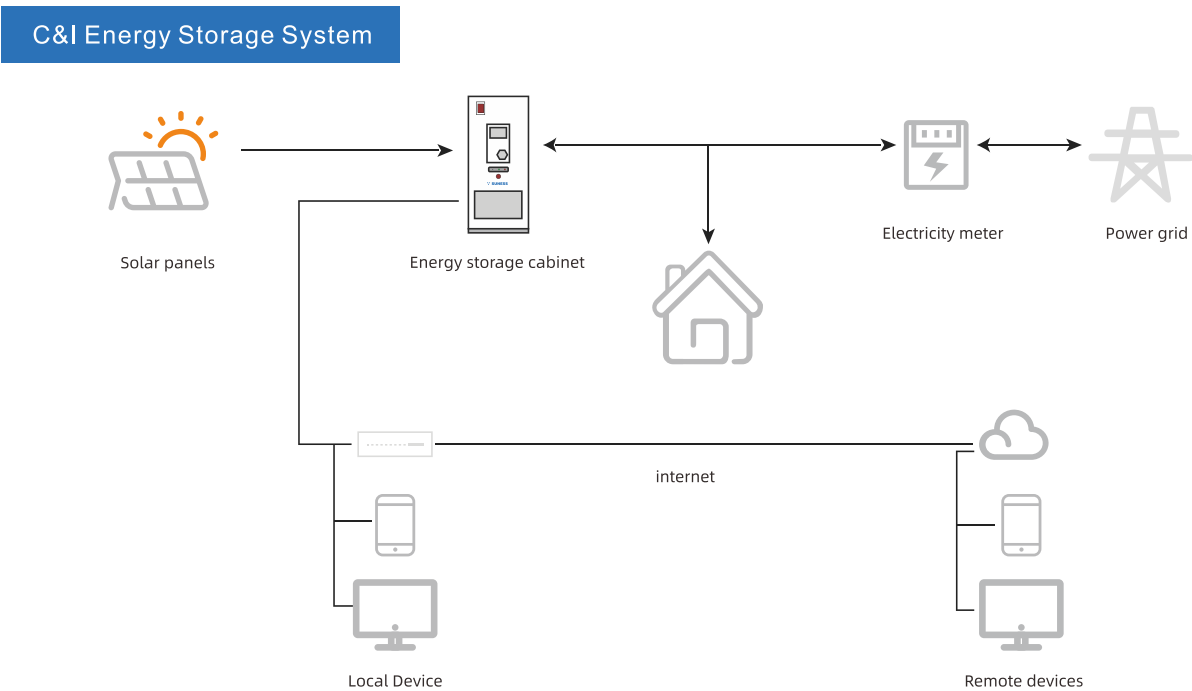
- Smart Management**
- The local control panel offers a wide range of functions, including system operation monitoring, energy management strategy formulation, and remote equipment upgrades.

- Versatile**
- Featuring a standardized structural design and menu-based configuration, this system allows for the optional addition of photovoltaic charging modules and grid-tied/off-grid switching modules for applications such as microgrids, and integrates a solar-storage system cabinet.

- Highly efficient and safe**
- A distributed, independent liquid-cooling system ensures the safe and efficient operation of the modules. A three-pronged approach—gas detection, explosion-proof design, and active temperature control—enables intelligent, integrated fire protection.

Product Data Sheet >>>

Model	iCab-125/L261
DC-side Parameters	
Cell Type	LiFePO4 Battery 3.2V/314Ah
Battery Configuration	1P52S*5S
Nominal Energy [kWh]	261
Max. DC Power [kW]	125
Rated DC Voltage [V]	832
Max. DC-side Current [A]	203
DC Voltage Operating Range [V]	728-936
DC Voltage Ripple Coefficient [%]	<2%
System Parameter	
Cable Entry	Bottom and Side Entry
Max. Efficiency	>89%
Charging Port	Integration
Noise	≤75 dB @1m
Degree of Protection	IP55
Cooling Method	Liquid Cooling
Operation Temperature Range [°C]	-25~55
Relative Humidity	0~95% (Non-condensing)
Max. Operating Altitude [m]	3000
Fire Suppression System	Pack-level aerosol; cabinet-level aerosol; water sprinkler
Anti-corrosion Degree	C4-Medium
Communicated Inverter	FOX / Solis / Solinteg
Communication	CAN
Dimension (W*D*H,mm)	974* 1350*2410



iCab-HVL- Series

C&I Energy Storage Cabinet

112.56-241.2kWh

> **System Configuration:**
314Ah/358.4-768V

CE UN38.3



Product Data Sheet >>>

Model	iCab-HVL 112	iCab-HVL 241
Battery Technical Specification		
Battery Type	LiFePO4 Battery	
Module Voltage/Capacity	51.2V/314Ah	
Module Energy	16.08 kWh	
PACK Quantity	7 PCS	15 PCS
System Specification		
System Energy Range	112.56 kWh	241.2 kWh
Voltage Range	324.8~403.2 Vdc	696~864Vdc
Communication	CAN/RS485	
Recommended Charge & Discharge Current	157 A	
Max. Charge/Discharge Current	200 A	
Recommended Depth of Discharge	≤95%	
Charging Temperature Range	0~55°C	
Discharging Temperature Range	-10~55°C	
Humidity	0~95%RH (Non-condensing)	
Protection Level	IP55	
Installation Method	Floor-Mounted	
Display	Touch screen	
Cooling Method	Intelligent Air Cooling	
Fire Protection	Aerosol/Perfluorohexanone	
Altitude	≤3000m (Derating above 2000m)	
Cycle Life	≥8000 cycles	
Dimension (W*D*H,mm)	850*1150*2300	1350*1150*2300
Compatible Inverter Brands	Deye/Solis/Sosen/Solinteg/Atess/Magarevo	Solis/FOX

Product Feature >>>

High Longevity & Performance

- Ultra-long cycle life of ≥ 8000 cycles ensures over 10 years of reliable energy storage performance.

Robust Environmental Adaptability

- IP55 protection level and wide operating temperature range (-10°C to 55°C) for diverse installation environments.

Intelligent Interaction

- Integrated Touch Screen display and multi-protocol communication (CAN/RS485) for seamless system monitoring.

Superior Safety Standards

- Equipped with Aerosol/Perfluorohexanone fire protection and certified by UN38.3, CE.

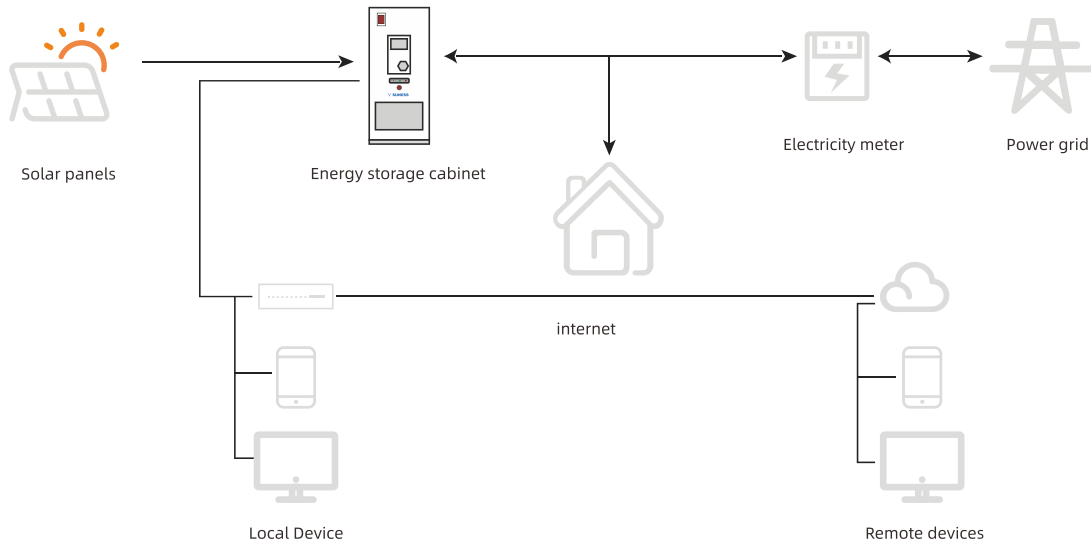
High-Efficiency Power Output

- Large capacity of 314Ah with a maximum charge/discharge current of 200A for demanding energy needs.

Wide Compatibility

- Fully compatible with leading inverter brands including Deye, Solis, Sosen, Solinteg, Atess, and Magarevo.

C&I Energy Storage System



iRack-HVM

High-Voltage Battery

112.56kWh~241.2kWh

> **Models:**
314Ah/51.2V



CE UN38.3



Product Feature >>>



High Quality Battery Cell

- Flexible Expansion
- Up to 10 battery clusters can be connected in parallel.
- 112.56kWh~2.41MWh energy coverage



High-Efficiency Charging

- Fast Charge/Discharge
- Maximum 0.5C charge and discharge



Long-Cycle Lifespan

- Long Life
- LFP cells,8000+ cycles



Plug-and-Play Installation

- Easy Installation
- Modular design for rapid expansion and installation



PACK-Level Active Fire Protection

- Integrated aerosol fire suppression inside each battery pack enables rapid fire response, enhanced system safety, and reliable protection against thermal runaway risks.



Safety-First Design

- High Safety LFP
- LFP & smart BMS

Product Data Sheet >>>

Models	iRack-HVM
Battery Type	LiFePO4 Battery
Module Voltage/Capacity	51.2V/314Ah
Module Energy	16.08kWh
Number of Battery Modules	7~15 (Supports 5 battery modules: Customization required)
System Energy Range	112.56kWh~241.2kWh
Operating Voltage	313.6V~864V
Recommended Charge & Discharge Current	157A(0.5C)
Max. Charge & Discharge Current	200A
Depth of Discharge	95%
Communication	CAN/RS485
Cycle Life	≥8000 cycles
Dimensions of High Voltage Control Box (L*W*H)	705 × 485 × 225 mm
Single Module Dimensions (L*W*H)	780*485*245mm
Weight of High Voltage Control Box	25kg
Single Module Weight	114kg
Charging Temp. Range	0~55°C
Discharging Temp. Range	-10~55°C
Protection Level	IP20
Installation Method	Stack type
Fire Protection	Aerosol/Perfluorohexanone
Cooling Method	Forced wind cooling
Battery Module Name	HVM-BAT
Certification & Safety Standard	UN38.3,CE-EMC
Compatible Inverter Brands	Solis/Growatt/Sosen/Solinteg/Atess/Magarevo/Deye etc.

NOTE:

* Test conditions: 0.2C charge/discharge at 25°C and 95% DOD.

* If the installation is on an upper floor, you will need to evaluate the floor load-bearing capacity before determining the number of stacks.

* Specifications are subject to change without prior notice.



iRack-HVM Battery Pack

iRack-HVM Battery Pack

iRack-HVM Battery Pack

iRack-HVM Battery Pack

FB-Series Lithium Battery

8.04kWh
> **Models:**
314Ah/25.6V

CE UN38.3



Product Feature >>>

Safety & Security

- Safe LiFePO4 Battery,BMS protections

More Usable Capacity

- 95%DOD,support 16 pcs in parallel

Intelligent Monitor

- LCD and LED Displays
- APP/Bluetooth Monitor

Longer Lifespan

- Over 8000 times life cycle
- 5 years of technical support

Space Saver

- Compact size and light weight

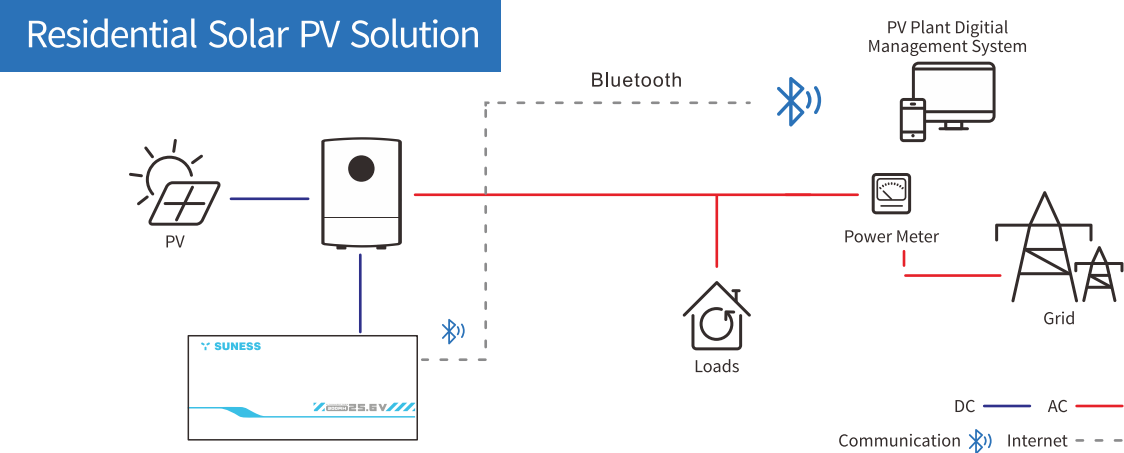
Wide Range of Applications

- Solar power system, wind power system,electric vehicle charging, household, office electricity, industrial production

Product Data Sheet >>>

Model	FB24314
Total Energy [kWh]	8.04
Capacity [Ah]	314
Nominal Voltage [V]	25.6
Voltage Range [V]	22.4-28.8
MAX. Charge Current [A]	150
MAX. Discharge Current [A]	150
Peak Charge & Discharge Current [A] (for 10 sec.)	200
Dimension (W*D*H,mm)	690*210*365
Net Weight [kg]	52
Installation	Wall-mounted
Scalable	1~16 in parallel
Communication	CAN,RS485
Compatible Inverter Brands	Deye / Victron / LuxPower / Growatt / SMA / MUST / SOROTEC / Voltronic / SRNE
Protection Level	IP21
Charging Temp Range [°C]	0~55
Discharging Temp Range [°C]	-10~55
Cycle Life	≥8,000 cycles at 80% DOD, 25°C, 0.5C, 60% EOL
Warranty	5 years
Certification	UN38.3,CE

*Specifications are subject to change without prior notice.



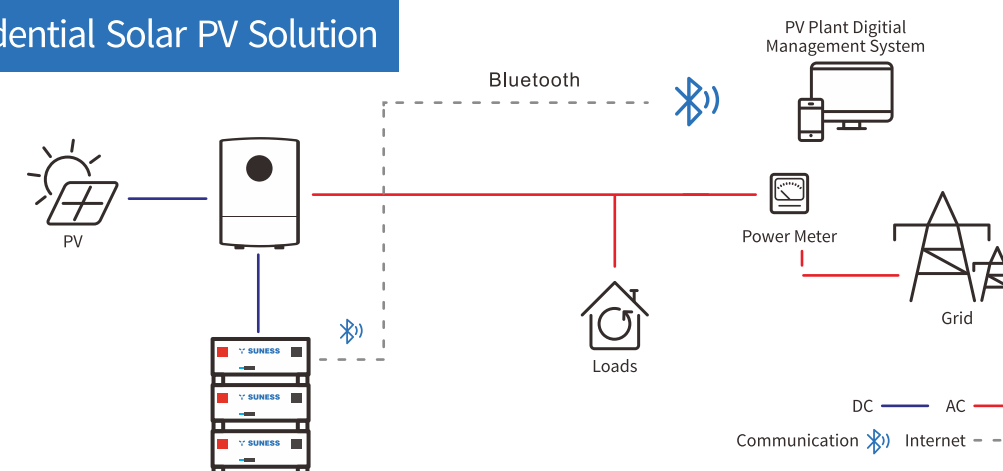
> **Models:**
100Ah/51.2V



- Solar power system, wind power system, electric vehicle charging, household, office electricity, industrial production

Model	EC-Mini 5.12
Total Energy [kWh]	5.12
Capacity [Ah]	100
Nominal Voltage [V]	51.2
Voltage Range [V]	44.8-57.6
Recommended Charge & Discharge Current [A]	50
MAX. Charge & Discharge Current [A]	70
Peak Charge & Discharge Current [A] (for 10 sec.)	110
Dimension [W x D x H mm]	440*550*145
Net Weight [kg]	44
Installation	Wall-mounted/Stacked
Scalable	1~16 in parallel
Communication	CAN,RS485
Compatible Inverter Brands	Deye / Victron / LuxPower / Growatt / SMA / MUST / SOROTEC / Voltronic / SRNE
Protection Level	IP21
Charging Temp Range [°C]	0~55
Discharging Temp Range [°C]	-10~55
Cycle Life	≥ 8,000 Cycles @ 80% DOD / 25°C / 0.5C, 60%EOL
Warranty	5 years
Certification	IEC62619,UN38.3,CE

Residential Solar PV Solution



EC-Mini Series Lithium Battery

16.08kWh
> **Models:**
314Ah/51.2V

Best-Selling
Products



CE UN38.3

Product Feature >>>

Safety & Security

- Safe LiFePO4 Battery,BMS protections

More Usable Capacity

- 95%DOD,support 16 pcs in parallel

Intelligent Monitor

- LCD Display
- APP/Bluetooth Monitor

Longer Lifespan

- Over 8000 times life cycle
- 5 years of technical support

Space Saver

- Compact size and light weight

Wide Range of Applications

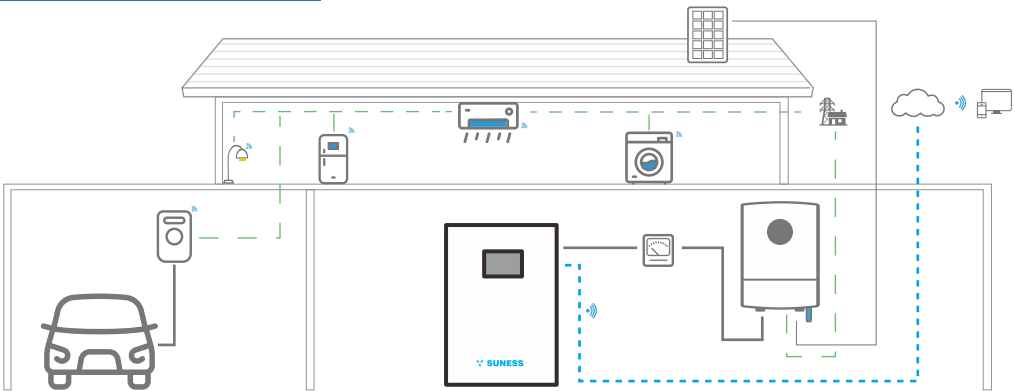
- Solar power system, wind power system,electric vehicle charging, household, office electricity, industrial production

Product Data Sheet >>>

Model	EC-Mini 16.08
Total Energy [kWh]	16.08
Capacity [Ah]	314
Nominal Voltage [V]	51.2
Voltage Range [V]	44.8-57.6
MAX. Charge & Discharge Current [A]	150
Peak Charge & Discharge Current [A] (for 10 sec.)	200
Dimension (W*D*H,mm)	420*200*790
Net Weight [kg]	109
Installation	Floor-standing(Optional Product Casters)
Scalable	1~16 in parallel
Communication	CAN, RS485, Wi-Fi
Compatible Inverter Brands	Deye / Victron / LuxPower / Growatt / SMA / MUST / SOROTEC / Voltronic / SRNE
Protection Level	IP21
Charging Temp Range [°C]	0~55
Discharging Temp Range [°C]	-10~55
Cycle Life	≥8,000 cycles at 80% DOD, 25°C, 0.5C, 60% EOL
Warranty	5 years
Certification	IEC62619,UN38.3,CE

*Specifications are subject to change without prior notice.

Residential Solar PV Solution



EC-Mini Series Lithium Battery

18.02kWh
> **Models:**
356Ah/51.2V



CE UN38.3

Product Feature >>>

Safety & Security

- Safe LiFePO4 Battery,BMS protections

More Usable Capacity

- 95%DOD,support 16 pcs in parallel

Intelligent Monitor

- LCD Display
- APP/Bluetooth Monitor

Longer Lifespan

- Over 8000 times life cycle
- 5 years of technical support

Space Saver

- Compact size and light weight

Wide Range of Applications

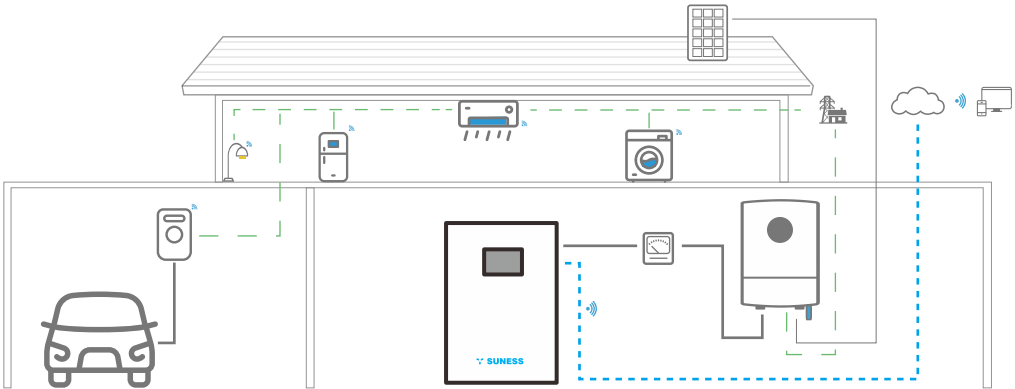
- Solar power system, wind power system,electric vehicle charging, household, office electricity, industrial production

Product Data Sheet >>>

Model	EC-Mini 18.02
Total Energy [kWh]	18.02
Capacity [Ah]	356
Nominal Voltage [V]	51.2
Voltage Range [V]	44.8-57.6
MAX. Charge & Discharge Current [A]	200
Peak Charge & Discharge Current [A] (for 10 sec.)	250
Dimension (W*D*H,mm)	445*250*945
Net Weight [kg]	130
Installation	Floor-standing
Scalable	1~16 in parallel
Communication	CAN, RS485
Compatible Inverter Brands	Deye / Victron / LuxPower / Growatt / SMA / MUST / SOROTEC / Voltronic / SRNE
Protection Level	IP21
Charging Temp Range [°C]	0~55
Discharging Temp Range [°C]	-10~55
Cycle Life	≥8,000 cycles at 80% DOD, 25°C, 0.5C, 60% EOL
Warranty	5 years
Certification	UN38.3,CE

*Specifications are subject to change without prior notice.

Residential Solar PV Solution



EV- Series Lithium Battery

10.24kWh
> **Models:**
200Ah/51.2V



IEC CE UN38.3

Product Feature >>>

Safety & Security

- Safe LiFePO4 Battery,BMS protections

Intelligent Monitor

- LCD and LED Displays
- APP/Bluetooth Monitor

Space Saver

- Compact size and light weight

More Usable Capacity

- Maximum DOD: 95%; supports up to 16 units in parallel.

Longer Lifespan

- Over 8000 times life cycle
- 10 years of technical support

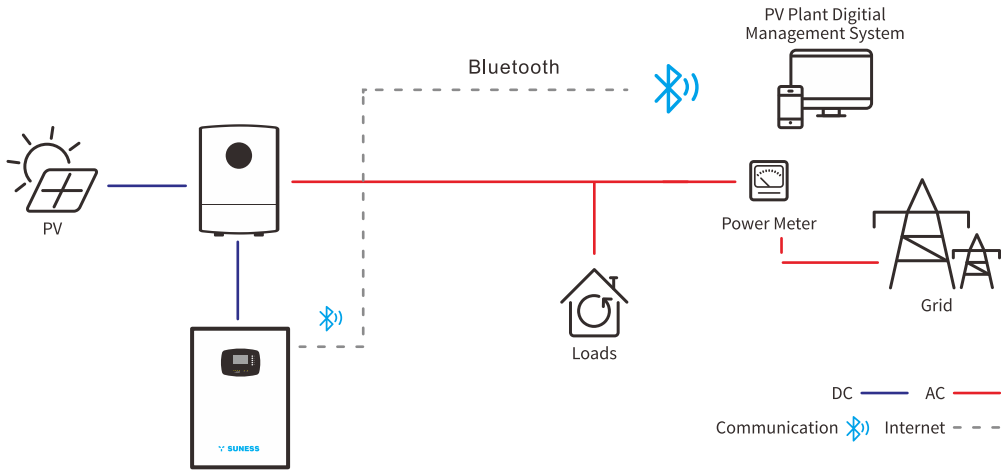
Wide Range of Applications

- Solar power system, wind power system,electric vehicle charging, household, office electricity, industrial production

Product Data Sheet >>>

Model	EV-10.24N
Total Energy [kWh]	10.24
Capacity [Ah]	200
Nominal Voltage [V]	51.2
Voltage Range [V]	44.8-57.6
MAX. Charge & Discharge Current [A]	100
Peak Charge & Discharge Current [A] (for 10 sec.)	120
Dimension (W*D*H,mm)	610*185*830
Net Weight [Kg]	86
Scalable	1~16 in parallel
Communication	CAN/RS485
Compatible Inverter Brands	Deye/Growatt/Voltronic/Megarevo/SRNE/Solis/Solax/Victron/SMA
Protection Level	IP21
Altitude [m]	≤2000
Installation	indoor
charging Temp Range [°c]	0~55
Discharging Temp Range [°c]	-10~55
Recommended Storage Temperature Range[°C]	10~30
Working Humidity [RH]	5%~95%
Recommended Discharge Depth	90%
Cycle Life	≥8,000 Cycle@ 25℃ / 0.5C, 60%EOL
Warranty	10 years
Accumulated Discharge Capacity	33.18 MWh @ 60% EOL
Certification	IEC62619,UN38.3,CE,

Residential Solar PV Solution



iPower- Series Lithium Battery

16.08kWh
> **Models:**
314Ah/51.2V



IEC CE UN38.3

Product Feature >>>



CCS Integrated Busbar

- Automotive-grade design for high stability.



Optimized Layout

- Aluminum panel layered design with plug-and-play terminals



Expandable capacity

- Expandable to 16 units with 10-year warranty



Elegant design

- Streamlined shape and customizable vibrant color options



High-quality battery

- Excellent performance with over 10,000 cycles



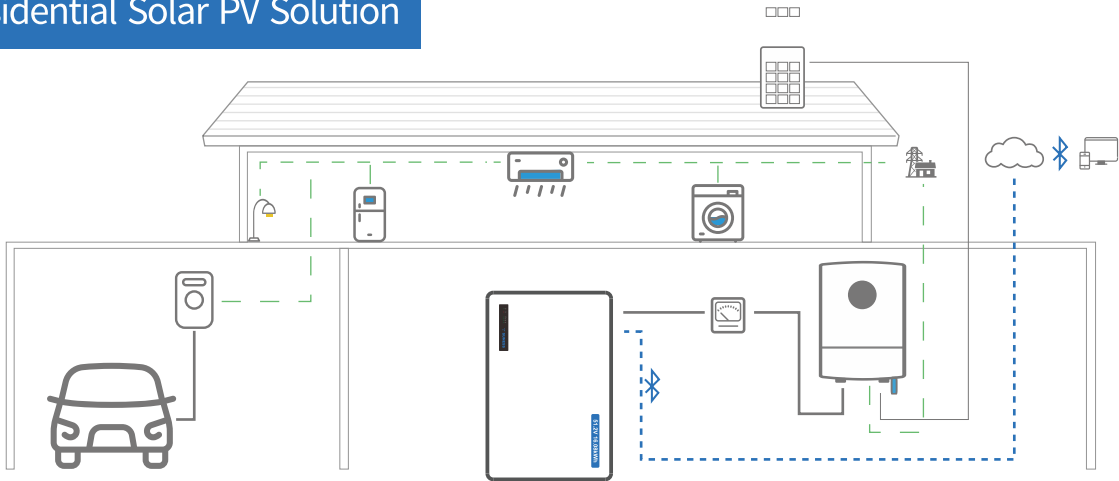
Intelligent Monitoring

- Real-time data tracking via APP

Product Data Sheet >>>

Model	iPower-16.08E
Total Energy [kWh]	16.08
Capacity[Ah]	314
Nominal Voltage [V]	51.2
Voltage Range [V]	44.8~57.6
Max. Charge & Discharge Current [A]	157(0.5C)
Max. Charge/Discharge Power [kW]	8.04
Dimension (W*D*H,mm)	530x250x870
Net Weight [Kg]	117
Scalable	1~16 in parallel
Communication	CAN/RS485
Compatible Inverter Brands	Deye/Growatt/Voltronic/Megarevo/SRNE/Solis/Solax/Victron/SMA
Protection Level	IP65
Altitude[m]	≤2000
Installation	indoor
charging Temp Range [°c]	0~55
Discharging Temp Range [°c]	-10~55
Recommended Storage Temperature Range[°C]	10~30
Self-Heating For Low Ambient Temperatures	Heating film (optional)
Working Humidity[RH]	5%~95%
Recommended Discharge Depth	90%
Cycle Life	≥10,000 Cycles @ DOD , 25°C / 0.5C, 60% EOL
Warranty	10 years
Accumulated Discharge capacity	52.09MWh @ 60% EOL
Certification	IEC 62619, IEC 62040, IEC 60529, SA TS 5398, UN38.3, CE

Residential Solar PV Solution



SUN- Series

All-in-One Energy Storage System

3.6kW / 5.12kWh
7.2kW/16.08kWh

CE UN38.3



Product Feature >>>

- 3 in 1 Residential ESS**
 - Intelligent WIFI & PCS & BMS
- Grade-A LiFePO4 Battery**
 - 6000 cycle life, Up to 8-10 Years LiFePO4 battery with high safety and performance
- Ultra-large Capacity**
 - 5.12kwh/16.08kWh LiFePO4 Battery with a backup time of over 2 hours
- High Compatibility**
 - Provides 33% higher surge power for demanding loads such as refrigerators, air conditioners, and water pumps
- High Performance Inverter**
 - UPS Class Switch time <10ms
 - Intelligent
 - Overload Protection Mode
- Dual charging Options**
 - charge via grid power or solar PV.

Product Data Sheet >>>

Model	SUN3.6U-5-US	SUN7.2U-16-US
Technical Parameters	3.6kW/5.12kWh	7.2kW/16.08kWh
AC Input (GRID)		
Rated Input Voltage	120Vac ±5%	120(L1/N, L2/N)/240Vac(L1/L2)
Input Voltage Range	(90Vac~140Vac)±2%	(85Vac~140Vac)±2%
Rated Grid Frequency	50Hz/60Hz	50Hz/60Hz (Auto detection)
Grid Frequency Range	47±0.3Hz~55±0.3Hz (50Hz) 57±0.3Hz~65±0.3Hz (60Hz)	
Charging Voltage Range	20Vdc-33Vdc	40Vdc-58.6Vdc
Max. Bypass Current	40A	2 pole, 50A/50A(L1/L2)
Max. Efficiency	>95%	>95%
DC Input (PV)		
Max. Input Power	6000W	4500W+4500W
Max. Input Voltage	500Vdc	500Vdc
PV Operating Voltage Range	90Vdc~500Vdc	90Vdc~485Vdc
MPPT Voltage Range	90Vdc~450Vdc	90Vdc~450Vdc
Number of MPPTs	1	2
Strings per MPPT	1	1
Max. MPPT Input Current	27A	16A+16A
Battery Parameters (BAT)		
Battery Capacity	5.12kWh	16.08kWh
Battery Type	LiFePO4 Battery	LiFePO4 Battery
Rated Battery Voltage	25.6V	51.2V
Battery Voltage Range	22.4V~28.8V	44.8V~57.6V
Max. Battery Charging Current (GRID, can be set)	80A	120A
Max. Battery Charging Current (GRID+PV, can be set)	120A	150A
Cycle Life	≥ 6,000 Cycles @ 80% DOD/25°C /0.5C, 60%EOL	
AC Output (LOAD)		
Rated Output Power	3600W	Split Phase: 7200W Single Phase: 6000W
Peak Power	5400VA	Split Phase: 10800VA Single Phase: 10800VA
Overload Capability	(102% < load < 110%) ±10%: Can be sustained for 5 minutes; output shuts o ffafter 5 minutes (110% < load < 125%) ±10%: Can be sustained for 10 seconds; output shuts o ffafter 10 seconds (Load > 125%) ±10%: Can be sustained for 5 seconds; output shuts o ffafter 5 seconds	
Output Voltage	120Vac ±5%	120Vac ±5%(L1/N, L2/N) / 240Vac±5%(L1/L2)
Output Frequency	50Hz±0.3Hz / 60Hz±0.3Hz	50Hz±0.3Hz / 60Hz±0.3Hz
Power Factor	1	
UPS Switching Time	10ms	
General Parameters		
Dimensions (W / H / D)	375*671*255mm	510*835*390mm
Weight	55kg	140kg
Operating Temperature Range	-10~55°C	
Relative Humidity	0~98% RH (no condensation)	
Maximum Operating Altitude	≤2000 m	
Protection Rating	IP21	
Topological Structure	Non-isolated	
Cooling Method	Intelligent Air Cooling	
Display	LCD Display	
Noise	≤60dB	
Communication Interfaces (RS485 / CAN / USB)	RS485 / CAN	
Communication Methods (Wi-Fi / LAN / 4G)	Wi-Fi	
Installation Method	Floor-standing	
Certifications	UN38.3/CE	

* Specifications are subject to change without prior notice.

SUN- Series

All-in-One Energy Storage System

3.6kW/ 8kWh

CE UN38.3



Product Feature >>>



3-in-1 Design:

- Inverter, LFP battery, and MPPT controller in one unit.



High Compatibility

- Provides 33% higher surge power for demanding loads for special application scenarios such as refrigerator, air conditioner and water pump.



High Performance Inverter

- UPS Class Switching time: <10 ms
- Intelligent
- Overload Protection Mode



Grade-A LiFePO4 Battery

- 6,000+ Cycles • 8-10 Years Service Life
- Safe, Reliable & High-Performance



Ultra-large Capacity

- 8000Wh LiFePO4 Battery Back-up
- Time up to 2Hours



More Convenient

- 28A I_{max}.PV current better for 210 panels.
- 120A Maximum charging Current, faster charging

Product Data Sheet >>>

Model	SUN 3600
Efficiency	
MPPT Tracking Efficiency	96.0%
Max. Battery Mode Conversion Efficiency	93.0%
PV Input	
PV Maximum Input Power	5000W
Max. PV Open Circuit Voltage	500VDC
MPPT Range Operating Voltage	40~450VDC
Max. Solar Input Current	18A
AC Input	
Nominal voltage	220 / 230 / 240; L+N+PE
Voltage Range	90~280 ±3(normal mode); 154~280 ±3(UPS mode)
Frequency	50 / 60 Hz (Auto Adaptive)
AC Output	
Nominal AC Output Power (Inverter Mode)	3600W
Max. Output Apparent Power (Inverter Mode)	4500VA
Nominal AC Output Voltage (Inverter Mode)	220 / 230 / 240VAC
AC Output Voltage Range	195 ~ 253 VAC
Total Voltage Harmonic Distortion (Inverter Mode)	<3%
Nominal AC Output Current (Inverter Mode)	16.4A
Max. Output AC Output Current Limit(Inverter Mode)	23A (3 seconds)
AC Output Nominal Frequency	50Hz / 60Hz
Surge Power	11000VA (200ms)
Overload Capacity	105%-150%: shutdown after 3 seconds; 150%-200%: shutdown after 0.2 seconds
Battery	
Battery Type	LiFePO4
Rated Battery Voltage	25.6VDC
Rated Capacity	314Ah
Battery Energy	8.04kWh
Max. Charging Current	100A
Cycle Life	≥ 6,000 Cycles @ 80% DOD / 25°C / 0.5C, 60% EOL
General Data	
Dimension (W*D*H)	850*450*250mm
Net Weight	71
Operating Temperature Range	-10~+55°C, >40°C Power Derating
Max. Operating Altitude	4000m,>2000m Power Derating
Cooling Method	Intelligent fan Cooling
Noise	< 47dB(1m)
Authentication Level	UN38.3 / CE
Protection	
Battery Fuse	Yes
Grid OVP	Yes
PV Over Voltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over Temperature Protection	Yes
Surge Protection	DC:Type II,AC:Type III

* Specifications are subject to change without prior notice.

YouESS Smart Energy EMS

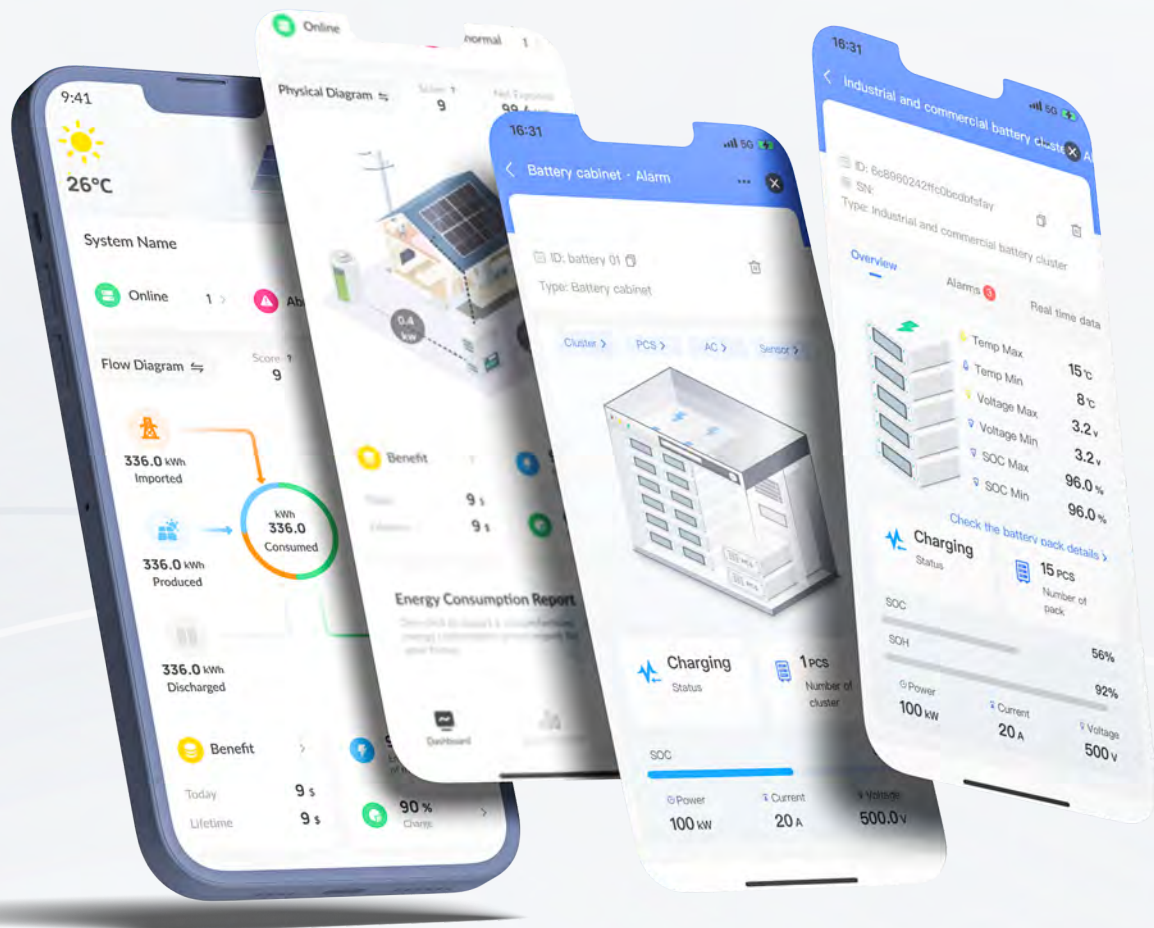
YouESS Cloud integrates real-time monitoring, intelligent alerts, remote control, efficient operation and maintenance, remote upgrades, and statistical analysis. It enables real-time monitoring of battery operating statuses, automatically calculates revenue based on power generation data, and facilitates rapid fault localization at power plants. It assists maintenance personnel in resolving issues promptly. The system employs a leading cloud computing platform to ensure secure and reliable data storage, while featuring a clear, intuitive interface for user-friendly operation.



Monitoring platform URL
<https://youesscn.saaszh.com/>

Mobile Application

YouESS Cloud



Data Visualization

- Display power generation and battery operating data in the app.
- Instantaneous data display of voltage, current, power, temperature, etc., to sense the working status of the equipment



Intelligent Control Console

- Optimize energy use and costs through dynamic rule settings
- Manage devices remotely for operational flexibility
- Instant anomaly alerts with actionable solutions.



Smart Prediction & Analytics

- Analyze charging/discharging efficiency indicators to identify optimization points.
- Develop algorithms to predict failures in advance and minimize losses.
- Evaluate electricity pricing and policy changes to provide cost-optimization recommendations.
- Generate periodic reports with historical comparisons to support decision-making.



Efficient Power Management & Maintenance

- Power monitoring tools to enhance energy efficiency.
- Automatically generated maintenance calendars with timely alerts to reduce failures.
- Rapid issue reporting for immediate response.

Smart Cloud Platform

YouESS Cloud



Multi-dimensional Data Visualization



Remote Monitoring of Equipment Status and Alert Management



Comprehensive Real-Time Data Analytics with Daily/Monthly/Yearly Reports



Installation Task Management



Hierarchical User Permission Management



Globally Distributed Multi-Node Data Centers for Enhanced User Access Speed



PRODUCT CASE

Quality service , selected products



80kWh
Residential Energy Storage Systems



90kWh
Residential Energy Storage Systems



90kWh
Residential Energy Storage Systems



120kWh
Residential Energy Storage Systems



105kWh
Residential Energy Storage Systems



150 kWh
Residential Energy Storage Systems



60kWh
Residential Energy Storage Systems



60kWh
Residential Energy Storage Systems



80kWh
Residential Energy Storage Systems



60kWh
Residential Energy Storage Systems



150kWh
Residential Energy Storage Systems



150kWh
Residential Energy Storage Systems

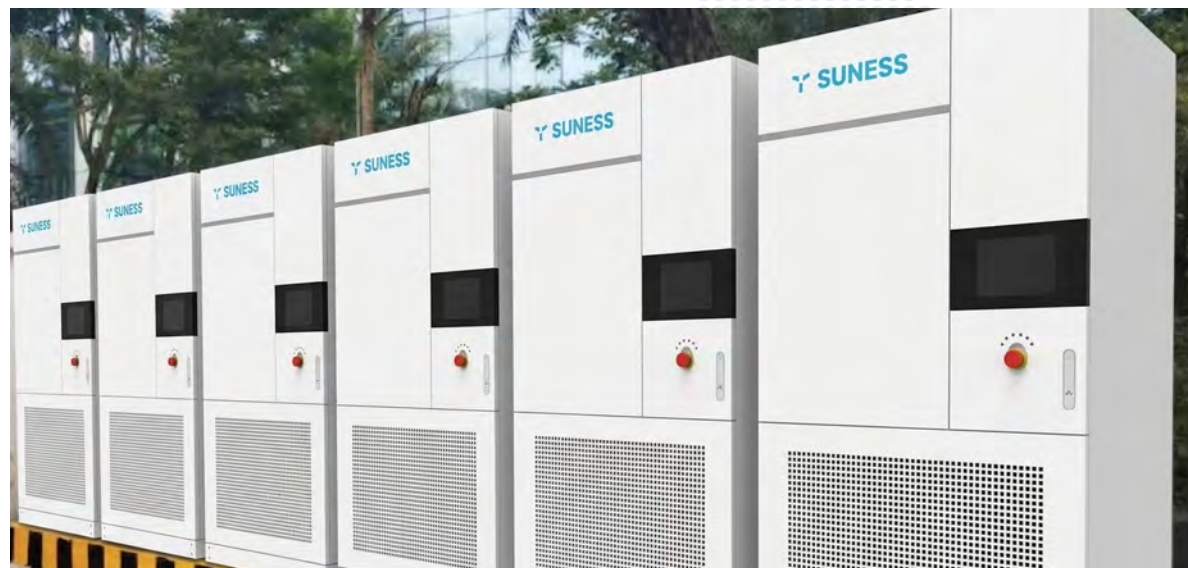
PRODUCT CASE

Quality service , selected products



2089.6 kWh

Commercial & Industrial Energy Storage Projects
Baghdad, Iraq



1567 kWh

Commercial & Industrial Energy Storage Projects
Beirut, Lebanon



522.5 kWh

Commercial & Industrial Energy Storage Projects
Gansu, China



1567 kWh

Commercial & Industrial Energy Storage Projects
Damascus, Syria

PRODUCT CASE

Quality service , selected products



2000 MWh

Utility-Scale Energy Storage Projects

Russia, Magadan



820 MWh

Utility-Scale Energy Storage Projects

Ho Chi Minh City, Vietnam



240 MWh

Utility-Scale Energy Storage Projects

Katowice, Poland

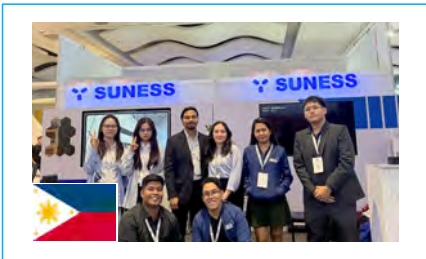
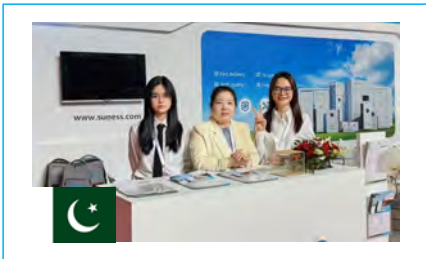


1100 MWh

Utility-Scale Energy Storage Projects

Xinjiang, China

Exhibition



4 Core Standard Systems, 100% Trusted Choice

Global Rigorous Standards, Crafting Perfection



Manufacturing & Quality Management

- Real-Time Production Monitoring
- Strict Supply Chain Quality Control
- Complete Product Traceability



Product Quality

- Extreme Temperature & Humidity Testing
- Thermal Cycling Test Verified
- Certified to International Standards

Global Presence

- Successfully Expanded into 80+ Global Markets
- 80+ Authorized Distributors Worldwide
- Exhibited in 30+ Countries



Service & Support

- Timely Remote Technical Support
- Professional & Responsive Customer Service
- On-Site Installation & Maintenance Services



ENERGY STORAGE PRODUCT SUPPLIER

To bring clean energy to every household

PRODUCT CERTIFICATION >>>



UL



ISO



CE



MSDS



UN38.3



IEC

PARTNERS >>>

Compatible with 16+ inverter brands

16+

Countries and Regions Served

80+



AFTER-SALES SERVICE FOR ENERGY STORAGE

Providing service for various
energy storage applications worldwide.



SERVICE EFFICIENCY



SERVICE ATTITUDE



PROFESSIONAL ABILITY



Service Team



80+

Global Footprints



10+

Years R&D

Overseas



After-sales
Process

Customer Feedback → Sales Support →
Engineer Follow-Up → Issue Resolution
and Closure.

Contact us directly: service@youess.com



System
Services

On-Site Maintenance
Technical Training
Remote Diagnostics & Consultation
Spare Parts & Tool Support
Self-Maintenance Guidance
Free Periodic Inspections During Warranty

RESIDENTIAL

ENERGY STORAGE SYSTEM

