



SRNE C&I Solar Storage Solution

Green energy changes the world





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About SRNE



SRNE Solar Co.,Ltd. established in 2009, is a high-tech enterprise integrating R&D, production, sales and service, headquartered in Shenzhen, China.

At present, SRNE has three residential product lines:

- Solar charge controller
- Solar storage inverter
- Solar energy storage system

Our Vision

- A world-class provider of -side PV energy storage products and solutions

Our Mission

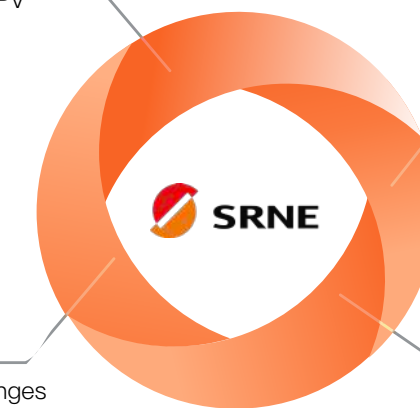
- Green energy changes the world.

Business Philosophy

- Integrity
- Innovative
- Surpass
- Win-win

Product Philosophy

- High-efficiency
- High-quality
- Cost-effective
- Excellent-service



Myanmar



China-Shanghai-SNEC



China-Guangzhou-China Import and Export Fair



Kenya

U.S.A

The development history of SRNE

2009

SRNE Solar Co.,Ltd.
established

2012

Received the supply of
solar controllers for 260,000
sets of off-grid small system
projects in Pakistan.

2013

- The holding subsidiary
Road Smart was officially
established.
- Received the supply of
110,000 sets of street
lamp controllers for the solar
street lamp project in Shanxi

2016

The "SRNE" brand was officially
launched and was awarded the
title of "Annual Publicity Brand"
by CCTV.

2017

- Establish a microgrid energy
storage equipment product
line and engage in the research
and development, production
and sales of photovoltaic energy
storage inverters.
- The solar street lamp controller
has been awarded the title of
"Famous Product of
Guangdong Province".

2018

The company is the main drafter
of the "Certification Specification
for Household Rooftop Photovoltaic
Systems" standard issued by the
China Quality Certification Center

2020

Awarded the title of
"Guangdong Province
Intellectual Property
Demonstration Enterprise".

2021

- Awarded the title of "Specialized,
Refined, Unique and Innovative
Small and Medium-sized
Enterprise in Shenzhen"
- Establish a product line for
energy storage systems
- Awarded the title of "Guangdong
Provincial Engineering Research
Center for Solar Energy Storage
Technology"

2022

- Awarded the title of
"National Intellectual Property
Advantage Enterprise"
- "Shenzhen Famous Brand",
- "Top 20 Enterprises in
Hangcheng Sub-district"

2024

- Awarded the title of "National
Key Specialized, Refined, Unique
and Innovative Small and
Medium-sized Enterprise"
- Obtained the "QTL Accredited
Laboratory Qualification"
issued by SGS

2025

- It was awarded the title of
"Famous Brand of the Bay
Area" and consecutively
won the title of "Famous
Brand of Shenzhen".
- Received the "Witness
Laboratory Accreditation
Qualification" awarded
by TÜV NORD.

2023

- Awarded the title of "National
Specialized, Refined, Unique and
Innovative Small and
Medium-sized Enterprise"
- The solar controller product line
has started the research and
development, production and
sales of RV power distribution
system products

Factory strength



**Independent research and development
+ own factory + complete supply chain
system**

SRNE has established a complete R&D design, supply chain, production and manufacturing, and market control system, ensuring that every link of the product, including pre-research, development, supply chain, production, quality control, service, and market, is guaranteed. This enables the product to truly implement the concept of "high quality, high cost performance, differentiation, and strong service".



SRNE



SRNE C&I solutions



Safer

Comprehensive Protection for Enterprise Power Usage

- Industrial-grade protection level, suitable for various environments
- Supports seamless switching — instantly switches to energy storage power during outages
- Equipped with multiple protection mechanisms



Smarter

Intelligent Cloud Monitoring for Efficient Operation & Maintenance

- Supports remote monitoring via Web and App — check system status anytime
- One-click parameter settings and smart alarm notifications
- Centralized management of multiple sites — ideal for distributed deployment



More Efficient

Higher Power Generation, Smarter Power Use

- Supports >1.5x DC/AC oversizing design to enhance power generation
- PV conversion efficiency up to 99.9% — maximizing rooftop utilization
- Intelligent MPPT algorithm adapts to light conditions to maximize generation



Faster ROI

Peak Shaving & Valley Filling to Cut Operational Costs

- Solar by day, storage by night — lower peak costs
- Smart charge/discharge schedules adapt to local rates
- Energy savings accelerate ROI.



BIPV for Industrial & commercial buildings



Agricultural facilities



Public service facilities



Temporary power supply for the project



Industrial & commercial buildings

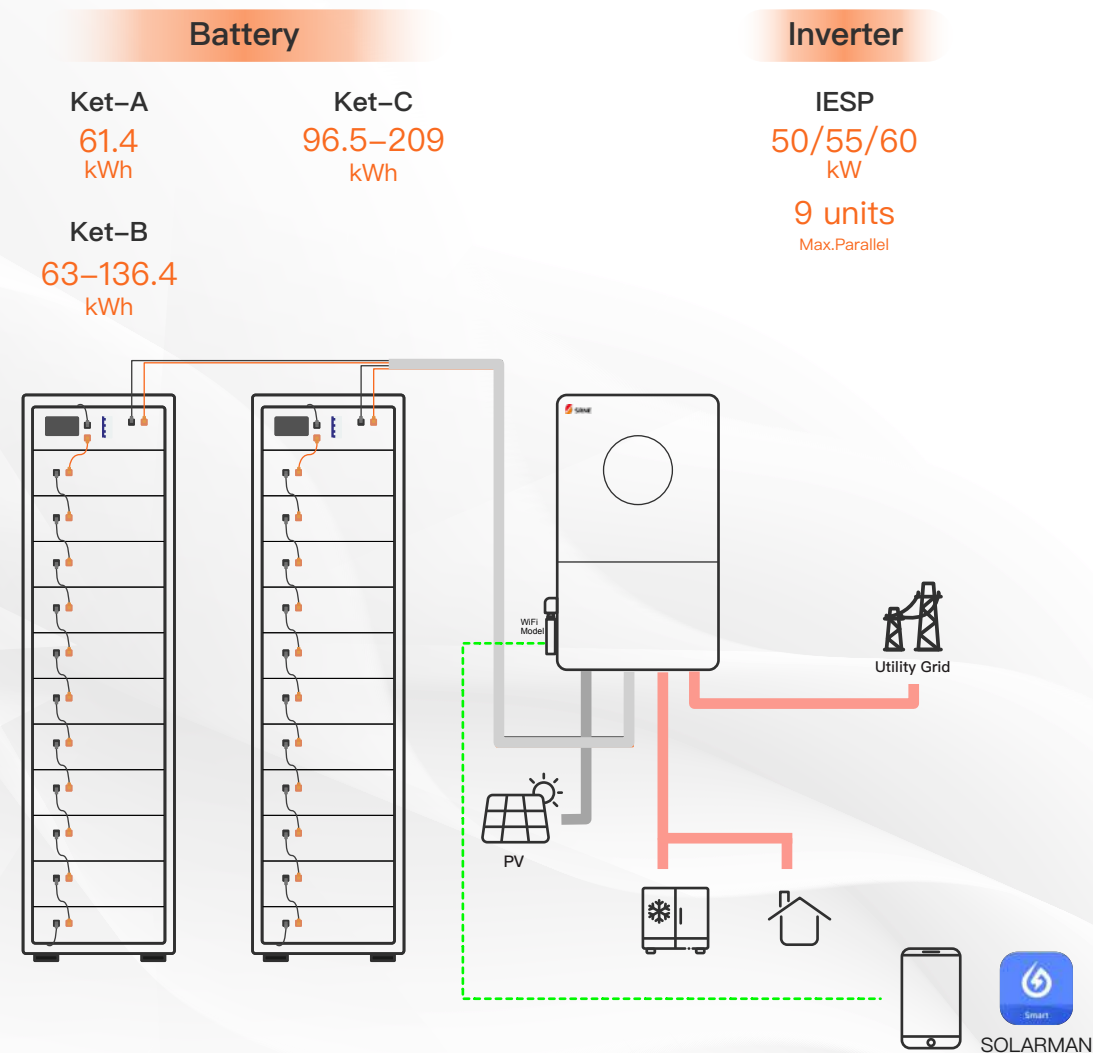
Small-scale C&I Hybrid Solar Storage solutions

Flexible and reliable, making green energy within easy reach

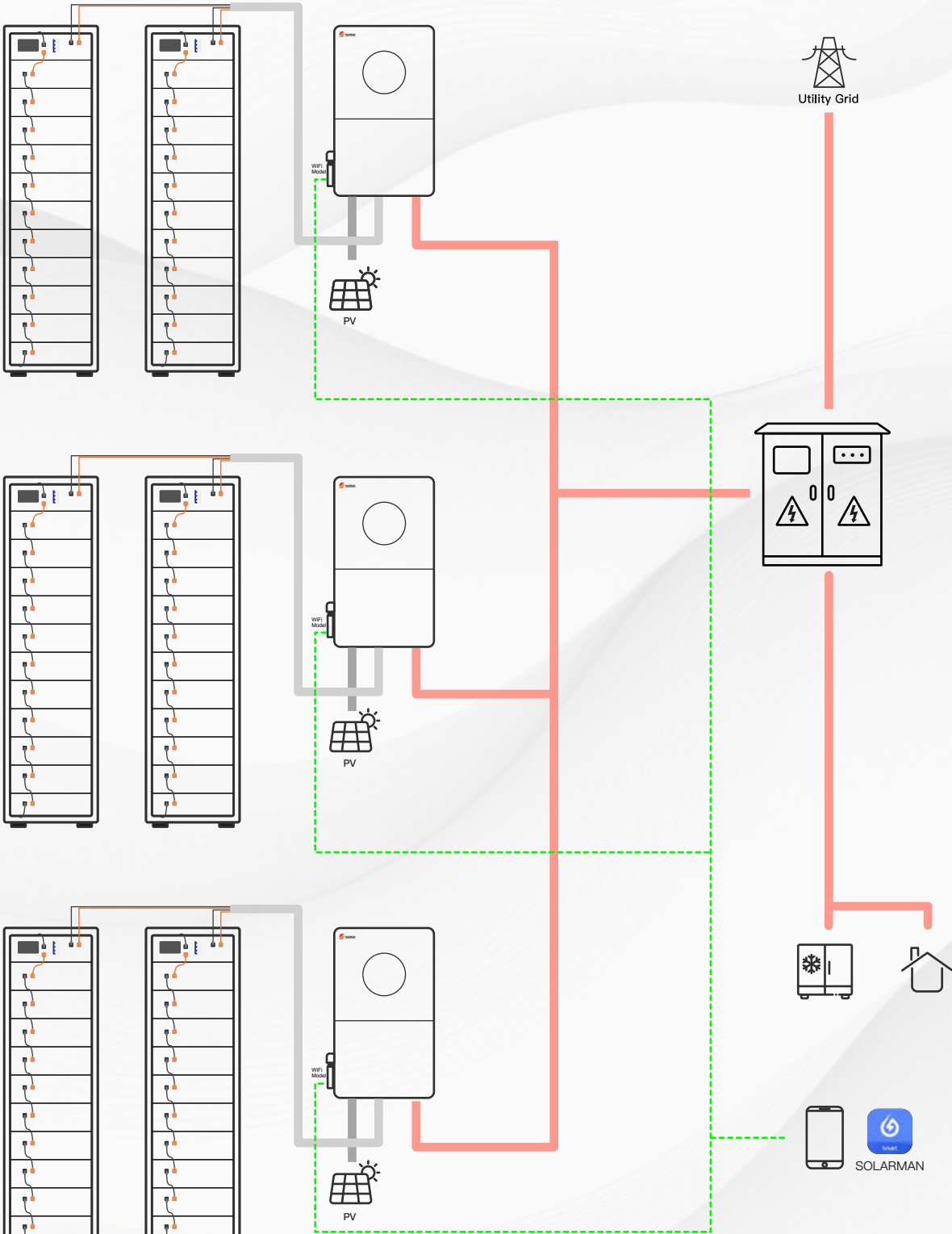
This solution is tailor-made for small industrial and commercial users and covers a wide range of application scenarios. The system can be equipped with large-capacity energy storage batteries as needed and **supports generator connection**. Even if there are fluctuations in the municipal power supply or power outages, stable power supply can still be guaranteed.

Based on local sunlight conditions and system configuration, the annual power generation can reach **50,000 to 80,000 kWh**, effectively reducing electricity costs and helping enterprises achieve the goals of energy conservation, cost reduction and carbon reduction.

Make energy more flexible and operation more stable.



C&I Solar Storage Micro-grid Solution



Build a green, stable and economical energy system for enterprises

This system integrate PV power generation, energy storage dispatching and intelligent management, meeting the energy demands of various scenarios such as factories, office buildings and parks.

It supports time-of-use charging and discharging functions, peak shaving and valley filling, significantly reducing the electricity costs for enterprises.

According to the actual scenario configuration, the system's **annual power generation can reach up to 400,000 kWh**, effectively reducing the reliance on the municipal power supply and achieving the dual values of green, low-carbon, energy conservation and cost reduction.

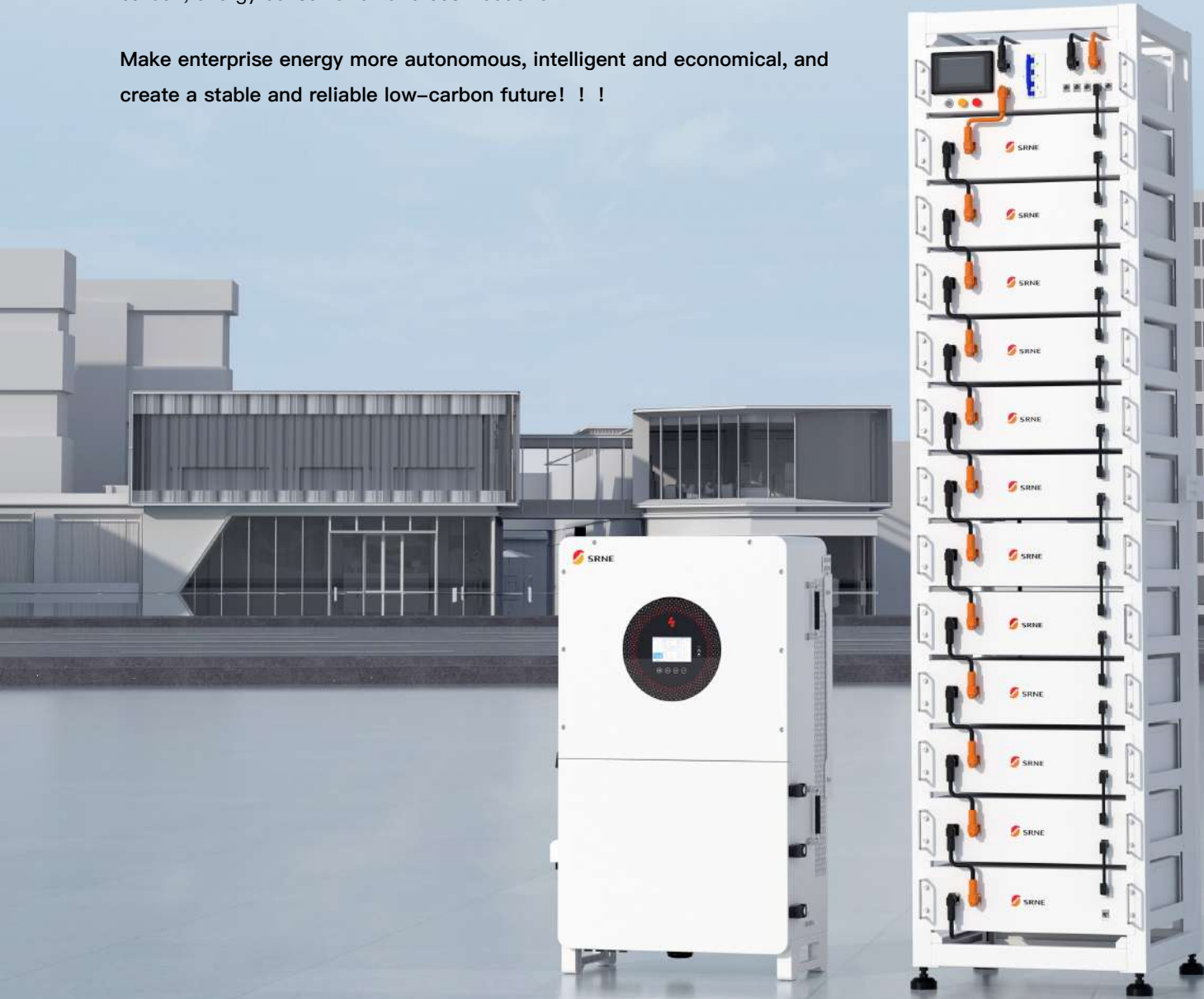
Make enterprise energy more autonomous, intelligent and economical, and create a stable and reliable low-carbon future! ! !

60kW
Rate Output Power

209kWh
Ket-C System Energy

9units
Parallel capacity

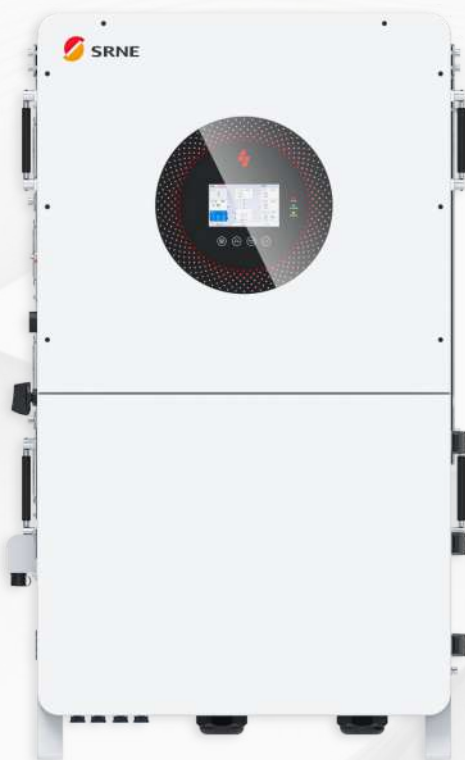
2clusters
Parallel capacity



SRNE C&I Hybrid inverter

IESP Series

– 50/55/60 kW



Feature

- ▷4 independent MPPT trackers, compatible with high-power PV modules

▷DC over-sizing up to 1.5x

▷Ultra-wide battery voltage range (150–820Vdc)

▷Battery charge/discharge current 80A*2


▷Max. AC grid-connected overload output of 1.1x
- ▷100% three-phase unbalanced load

▷Supports diesel generator input

▷DC arc fault detection

▷AC/DC Surge Protection (Level II)

▷IP65 waterproof protection degree

<div>Main</div>			
Model	IESP500SH3	IESP550SH3	IESP600SH3
AC OUTPUT			
Rated Output Power	50000W	55000W	60000W
Max. Apparent Power	60000VA	60500VA	66000VA
Peak Power (off-grid)	1.6 times of rated power, 10s		1.5 times of rated power, 10s
Rated Output Voltage	220/380Vac,230/400Vac （3L+N+PE）		
Rated Output Current	72.2A	79.4A	86.6A
Max. Output Current	86.6A	87.4A	95.3A
Load Motor Capacity	21HP	23HP	25HP
Power Factor	0.8 leading to 0.8 lagging		
THDI	<3% (of nominal power)		
Rated Frequency	50/60Hz ±0.3Hz		
Switch Time	10ms (typical value)		
Waveform	Pure sine wave		
BATTERY			
Battery Type	Lithium-ion Battery		
Number of Battery Input	2		
Battery Voltage Range	150–820Vdc		
Max. Charging/Discharging Current	160A (80A+80A)		
PV INPUT			
No. Of MPPT Trackers	4		
Max. PV Access Power	100kW	110kW	120kW
Max. PV Input Power	90000W	90000W	96000W
Rated PV Input Voltage	600Vdc		
Max. PV Input Voltage	1000Vdc		
Start-up Voltage	160Vdc		
Max. PV Input Current	40A*4		
Max. Short-circuit Current	60A*4		
MPPT Operating Voltage Range	150–850Vdc		
GRID/GENERATOR INPUT			
Rated Input Phase Voltage	3L/N/PE; 220/380V; 230/400V		
Rated Input Frequency	50/60Hz		
Max. Bypass Overload Current	200A		
EFFICIENCY			
MPPT Tracking Efficiency	>99%		
Max. Efficiency	98.1%		
European Efficiency	97.6%		
GENERAL DATA			
Parallel Capacity	1~9 Units （More than 2 units in parallel can form a three-phase output）		
Dimension	622x342x1010mm	Humidity	0~100%
Weight	98kg	Cooling Method	Heat sink + intelligent fan cooling
Protection Degree	IP65	Noise	<65dB
Temperature	-40 to +60℃, >45℃ Derate	Communication	RS485 / CAN / USB / Dry Contact
Warranty	5 years	External Module	Wi-Fi/4G Stick (Optional)
Certificate	EN50549,VDE4105,IEC62109-1,EC62109-2,EN61000-6-1, EN61000-6-3, FCC 15 class B		

SRNE HV Solar storage battery

Ket-A Series

– 61.4 kWh



Feature

- ▷Equipped with WIFI and Bluetooth communication, it supports Tuya cloud platform and can view battery information remotely.

▷Positive Relay + Negative Relay + Breaker, Adopting redundant design to ensure control safety.

▷Higher safe performance and longer cycle life
- ▷Quick installation standard of 19– inch embedded designed module is comfortable for installation and maintenance.

▷Multiple battery modules can be in parallel forexpanding capacity and power.

Battery System Module	SR–Ket60A
Battery Module Qty in series	12
System Nominal Voltage	614.4V
System Operating Min.Voltage	537.6V
System Operating Max.Voltage	700.8V
System Energy	61.4kWh
Recommend Charge/Discharge Current	50A/50A
Max Charge/Discharge Current	70A/100A
Peak Discharge (3S,25℃)	80A/120A
Installation Location	Rack Mounting
Recommend Depth of Discharge	≤95%
Cycle Life	6000 (25℃,0.5C/0.5C,EOL70%)
Display Type	LED+Touch LCD
Triple Protection	Positive Relay + Negative Relay + Breaker
Number of Main Circuit Relays	3
Heat Dissipation	Natural Cooling
Certification	UN38.3/CE/CE–EMC
Working Temperature	Charge:0~55℃/Discharge:–20~55℃
Storage Temperature	0~35℃
Communicaton Port	RS485/CAN/WiFi
Humidity (RH)	5%~80%
Altitude	≤3000m
IP Rating of Enclosure	IP20
Noise	<30dB
Dimensions (WxDxH)	776mm*552mm*2200mm
Weight Approximate	595.8kg
Cover An Area	0.78m*0.55m

SRNE HV Solar storage battery

Ket-B Series

– 63~136.4 kWh



Feature

- ▷ Equipped with WIFI and Bluetooth communication, it supports Tuya cloud platform and can view battery information remotely.
- ▷ Positive Relay + Negative Relay + Breaker, Adopting redundant design to ensure control safety.
- ▷ Higher safe performance and longer cycle life
- ▷ Quick installation standard of 19– inch embedded designed module is comfortable for installation and maintenance.
- ▷ Multiple battery modules can be in parallel forexpanding capacity and power.

MODEL	SR-Ket60B	SR-Ket70B	SR-Ket80B	SR-Ket90B
MAIN				
Battery Module Qty in series	6	7	8	9
System Nominal Voltage	307.2V	358.4V	409.6V	460.8V
System Operating Min.Voltage	268.8V	313.6V	358.4V	403.2V
System Operating Max .Voltage	345.6V	403.2V	460.8V	518.4V
System Energy	63kWh	73.5kWh	84kWh	94.5kWh
Battery Type	LiFePO4			
Cycle Life	6000 (25℃,0.5C/0.5C,EOL70%)			
Number of Main Circuit Relays	3			
CHARGE&DISCHARGE				
Recommend Charge & Discharge Current	100A/100A			
Max Charge & Discharge Current	150A/200A			
Peak Discharge Current (3S,25℃)	200A/220A			
Recommend Depth of Discharge	90%			
GENERAL				
Communication	RS485/CAN/WiFi			
Storage Temperature	0~35℃			
Working Temperature	Charge:0–55℃/Discharge:–20–55℃			
Noise	< 50dB			
Cooling Method	Natural Cooling			
Protection Grade	IP20			
Certification	UN38.3/CE/CE–EMC			



MODEL	SR-Ket100B	SR-Ket110B	SR-Ket120B	SR-Ket130B
MAIN				
Battery Module Qty in series	10	11	12	13
System Nominal Voltage	512V	563.2V	614.4V	665.6V
System Operating Min.Voltage	448V	492.8V	537.6V	582.4V
System Operating Max .Voltage	576V	633.6V	691.2V	748.8V
System Energy	105kWh	115.5kWh	126kWh	136.4kWh
Battery Type	LiFePO4			
Cycle Life	6000 (25℃,0.5C/0.5C,EOL70%)			
Number of Main Circuit Relays	3			
CHARGE&DISCHARGE				
Recommend Charge & Discharge Current	100A/100A			
Max Charge & Discharge Current	150A/200A			
Peak Discharge Current (3S,25℃)	200A/220A			
Recommend Depth of Discharge	90%			
GENERAL				
Communication	RS485/CAN/WiFi			
Storage Temperature	0~35℃			
Working Temperature	Charge:0–55℃/Discharge:–20–55℃			
Noise	<50dB			
Cooling Method	Natural Cooling			
Protection Grade	IP20			
Certification	UN38.3/CE/CE–EMC			

SRNE HV Solar storage battery

Ket-C Series
– 96.5~209 kWh



Feature

- ▷Equipped with WIFI and Bluetooth communication, it supports Tuya cloud platform and can view battery information remotely.

▷Positive Relay + Negative Relay + Breaker, Adopting redundant design to ensure control safety.

▷Higher safe performance and longer cycle life
- ▷Quick installation standard of 19– inch embedded designed module is comfortable for installation and maintenance.

▷Multiple battery modules can be in parallel forexpanding capacity and power.

MODEL	SR-Ket96C	SR-Ket112C	SR-Ket128C	SR-Ket144C
MAIN				
Battery Module Qty in series	6	7	8	9
System Nominal Voltage	307.2V	358.4V	409.6V	460.8V
System Operating Min.Voltage	268.8V	313.6V	358.4V	403.2V
System Operating Max .Voltage	345.6V	403.2V	460.8V	518.4V
System Energy	96.5kWh	112.5kWh	128.6kWh	144.7kWh
Battery Type	LiFePO4			
Cycle Life	6000 (25℃,0.5C/0.5C,EOL70%)			
CHARGE&DISCHARGE				
Recommend Charge & Discharge Current	150A/150A			
Max Charge & Discharge Current	200A/200A			
Peak Discharge Current (3S,25℃)	220A/220A			
Recommend Depth of Discharge	90%			
GENERAL				
Communication	RS485/CAN/WiFi			
Storage Temperature	0~35℃			
Working Temperature	Charge:0~55℃/Discharge:-20~55℃			
Noise	< 50dB			
Cooling Method	Natural Cooling			
Protection Grade	IP20			
Certification	UN38.3/CE/CE-EMC			



MODEL	SR-Ket166C	SR-Ket176C	SR-Ket192C	SR-Ket209C
MAIN				
Battery Module Qty in series	10	11	12	13
System Nominal Voltage	512V	563.2V	614.4V	665.6V
System Operating Min.Voltage	448V	492.8V	537.6V	582.4V
System Operating Max .Voltage	576V	633.6V	691.2V	748.8V
System Energy	160.8kWh	176.5kWh	192.9kWh	209kWh
Battery Type	LiFePO4			
Cycle Life	6000 (25°C,0.5C/0.5C,EOL70%)			
CHARGE&DISCHARGE				
Recommend Charge & Discharge Current	150A/150A			
Max Charge & Discharge Current	200A/200A			
Peak Discharge Current (3S,25°C)	220A/220A			
Recommend Depth of Discharge	90%			
GENERAL				
Communication	RS485/CAN/WiFi			
Storage Temperature	0~35°C			
Working Temperature	Charge:0~55°C/Discharge:–20–55°C			
Noise	< 50dB			
Cooling Method	Natural Cooling			
Protection Grade	IP20			
Certification	UN38.3/CE/CE-EMC			

C&I Solar storage system

BOX Series

55kW–112.5kWh



Feature

- ▷Real-time status monitoring and fault logging enable earlyfault warnings and post-event analysis

▷Cloud platform integration supports multi-device accessand multi-user sharing

▷circuit,over-voltage, under-voltage, overload, andovercurrent protection

▷IP54 outdoor cablinetand C3 anti-corrosiondesign
- ▷Modular design supports parallel connections,facilitatingsystem expansion

▷Highly integrated and pre-assembled system for easytransportation and maintenance

▷Supports on-grid and off-grid applications

▷Supports long-term 110% overload use

Model	SR-Box112C-55K
Battery Parameters	
Cell type	LFP/314Ah
Battery pack	16.07kWh/51.2V
Number of packs	7
Rated capacity	112.5kWh
Rated voltage	358.4V
Rated current	150A
Voltage range	313.6~403.2V
Charge / discharge rate	0.5C
AC Side Parameters	
Rated output power	55kW
Rated grid voltage	220/380Vac,230/400Vac （3L+N+PE）
Rated output current	75.9A
Rated grid frequency	50/60Hz ±0.3Hz
Output THDi	<3% (of nominal power)
Power factor	0.8 leading to 0.8 lagging
Overload capacity	110% (long time), 140% (10s)
PV Side Parameters	
Max. PV Input Power	75kW
Max. PV Input Voltage	1000Vdc
MPPT Operating Voltage Range	150~850Vdc
No. Of MPPT Trackers	4
Max. PV Input Current	40A/40A/40A/40A
Max. Short-circuit Current	60A/60A/60A/60A
Other Parameters	
Dimension (W×H×D)	1200*2391*1200mm
Weight	1800kg
Operating temperature	-30℃~+55℃（-22°F~+131°F）(Derating Below - 15℃ or above 45℃)
Maximum working altitude	3000m (> 2000m Derating)
Noise	≤75dB
IP Rating	IP55
Cooling method	Smart air cooling
Fire suppression system	FM200 gas fire, flammable gas detection + exhaust + Water Sprinkler System
Communication	CAN / RS485 / TCP
Cycle life	6000 cycles (25±2℃, 0.5P / 0.5P, 70% SOH)
Anti-corrosion Grade	C3
Compliance	UN38.3、 GB/T36276

C&I Solar storage system

BOX Series
60kW–225kWh



Feature

- ▷ Equipped with WIFI and Bluetooth communication, it supports Tuya cloud platform and can view battery information remotely.

▷ Positive Relay + Negative Relay + Breaker, Adopting redundant design to ensure control safety.

▷ Cathode material is made from LiFePO4 with safety performance and long cycle life.

▷ Quick installation standard of 19– inch
- embedded designed module is comfortable for installation and maintenance.

▷ It has protection functions including over–discharge, over– charge, over– current and over– high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.

▷ Multiple battery modules can be in parallel for expanding capacity and power.

Model	SR-Box225C-60K
Battery Parameters	
Cell type	LFP/314Ah
Battery pack	16.07kWh/51.2V
Number of packs	7
Rated capacity	225kWh
Rated voltage	716.8V
Rated current	150A
Voltage range	627.2~806.4V
Charge / discharge rate	0.5C
AC Side Parameters	
Rated output power	60kW
Rated grid voltage	220/380Vac,230/400Vac (3L+N+PE)
Rated output current	91.2A
Rated grid frequency	50/60Hz ±0.3Hz
Output THDi	<3% (of nominal power)
Power factor	0.8 leading to 0.8 lagging
Overload capacity	110% (long time), 140% (10s)
PV Side Parameters	
Max. PV Input Power	120kW
Max. PV Input Voltage	1000Vdc
MPPT Operating Voltage Range	150~850Vdc
No. Of MPPT Trackers	4
Max. PV Input Current	40A/40A/40A/40A
Max. Short-circuit Current	60A/60A/60A/60A
Other Parameters	
Dimension (W×H×D)	1900*2390*1300mm
Weight	2350kg
Operating temperature	-30℃~+55℃ (-22°F~+131°F) (Derating Below - 15℃ or above 45℃)
Maximum working altitude	3000m (> 2000m Derating)
Noise	≤75dB
IP Rating	IP55
Cooling method	Smart air cooling
Fire suppression system	Aerosol/Smoke sensor/Sound and light alarm
Communication	CAN / RS485 / TCP
Cycle life	6000 cycles (25±2℃, 0.5P / 0.5P, 70% SOH)
Anti-corrosion Grade	C3
Compliance	UN38.3、GB/T36276



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