

Wherever you find your energy. Shine on.

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UZ ENERGY
Storage Systems

Powered by

SES AI SoX™ EdgeBox

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MILESTONES

Wherever you find your energy. Shine on.

A SES AI Company | Powered by SES AI SOX™ EdgeBox

Cell → Module → Pack → ESS Solution

2013

Strategic cooperation with best-in-class battery supplier

2017

- UPS Solution (3 MWh)
- Energy Storage Solution Contract for Microgrids (10 MWh)

2018-2019

- Approved by mainstream inverters in African/Australian Markets
- ISO 9001/14001/18001
- Guangdong Province Innovative Enterprise
- Energy storage solution for PV/Wind application (35 MWh)

2020-2021

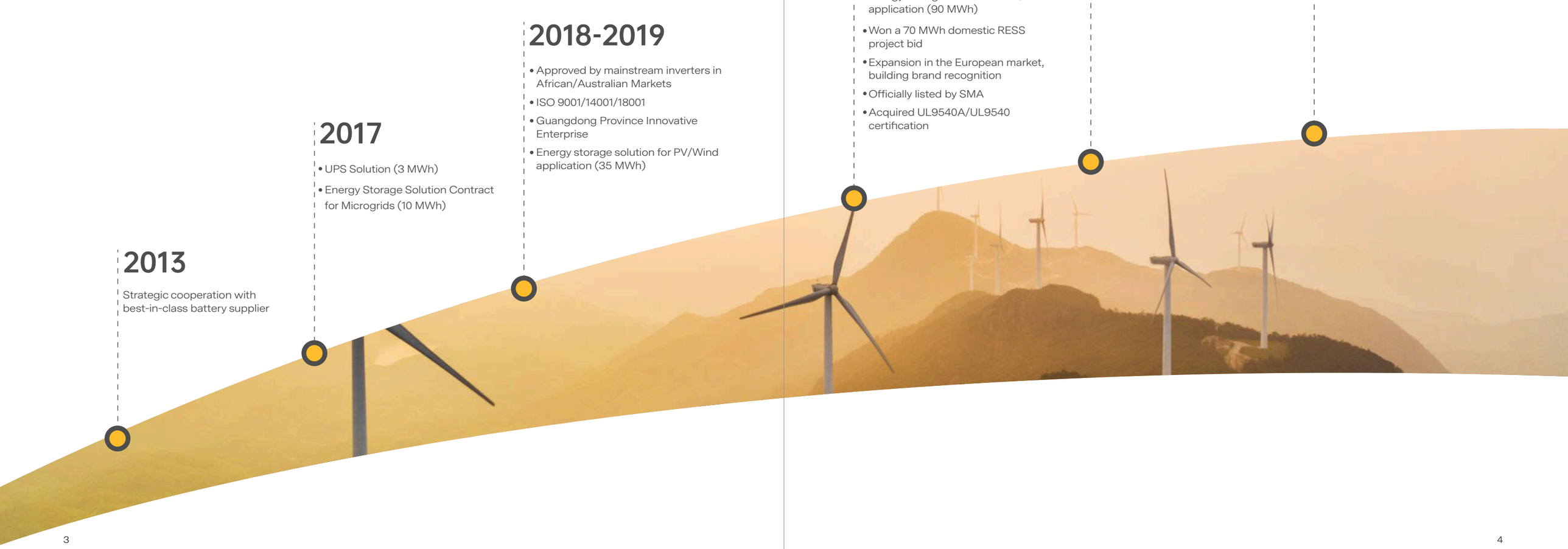
- TUV & UL China Core Partner
- Energy storage solution for PV/Wind application (90 MWh)
- Won a 70 MWh domestic RESS project bid
- Expansion in the European market, building brand recognition
- Officially listed by SMA
- Acquired UL9540A/UL9540 certification

2022-2025

- Won a 300 million RMB UN project
- SES AI completed the acquisition of 100% equity in UZ Energy on September 15, 2025.

2026

- Strategic partnership with US Energy Distributors.
- Sol-Ark Compatibility Certification L051100-B, PLPA-L1-10K2-U, and IG-16K-U achieved closed-loop compatibility certification with Sol-Ark 12K-2P-LL, 15K-2P, and 18K-2P.



OUR COMPETITIVE ADVANTAGES

>10 years R&D of ESS	**>30 people** R&D Team	**>100 items** Authorized Patents
>1,000 m² R&D Center	**>2 GWh** Annual Production Capacity	
>500+ MWh Cumulative Delivery	**>30,000+** End Customers	**>60+ countries** Export Trade

Additional AI Advantages
(SES AI SoX™ EdgeBox)

- High-precision SoC estimation informed by battery history
- SoC / SoP / SoE / SoH / SoS / SoD full-stack AI monitoring
- Edge computing response <500ms for VPP & grid services
- AI-driven safety anomaly & degradation prediction
- SoX-enhanced VPP for higher revenue & asset optimization

Who We Are

UZ ENERGY

Premium Energy Storage System

UZ ENERGY LIMITED was founded in 2013, with its headquarters in Shenzhen, China. UZ Energy is an innovative energy storage solution enterprise with global impact. With a comprehensive portfolio of products, solutions and services, UZ Energy promises optimized performance, reliability and return on investment of energy storage, from residential-scale facility to grid-scale power plants.

We lead with an innovative R&D team, to provide products designed, tested and manufactured according to the highest global standards. We have established long-term strategic cooperation with the best-in-class cell manufacturers and professionals with skillsets and expertise in science, engineering and technology, to develop products with global relevance.

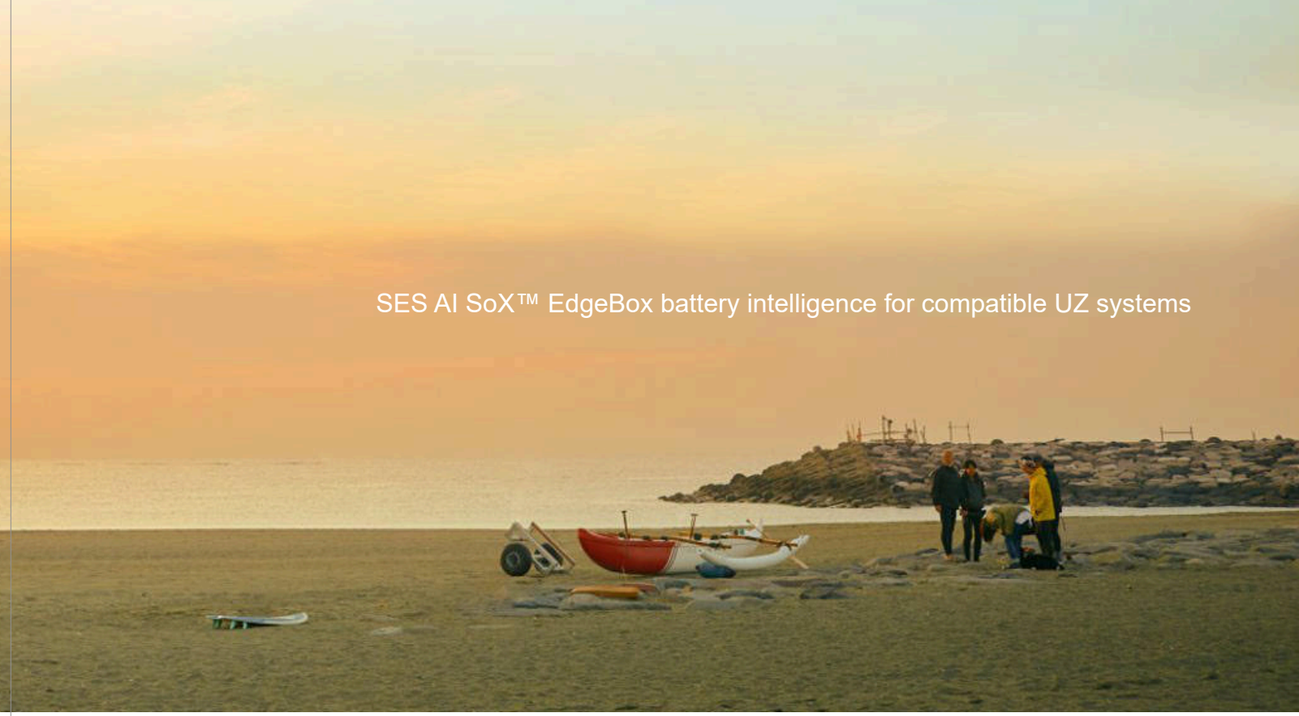
Our commitment is to become the leading facilitator in the global shift towards future energy storage. With a mission to accelerate the world's transition to sustainable energy, we commercially advance and deploy clean energy technologies, promoting sustainability in developing projects that deliver innovation to move the world forward.

With years of combined experience in providing clean energy solutions, and having partnered with the world's clean energy companies, UZ Energy is uniquely positioned to guide your complex projects from inception to implementation.

LinkedIn
https://www.linkedin.com/company/uz-energy/



UZ ENERGY STORAGE PRODUCT FAMILY



SES AI SoX™ EdgeBox battery intelligence for compatible UZ systems

Residential ESS

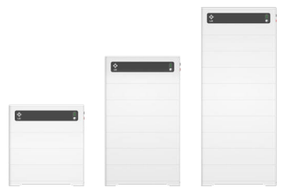
Power Lite Series
5 kWh



Power Lite Plus Series
5 kWh / 10 kWh / 16 kWh



WJ Series
10-50 kWh



Industrial and Commercial ESS

Power Swift Series
30 kWh-61 kWh



Power Mega Series
50 kW / 110 kWh



Power Mega Series
125 kW / 261 kWh (EU)



Power Mega Series
125 kW / 261 kWh (US)

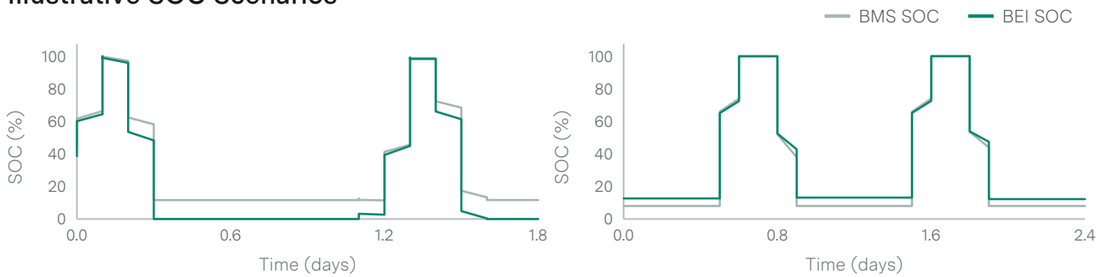


More Reliable SOC Estimation

A Clearer View of Remaining Energy

SES AI's Battery Edge Intelligence (BEI), integrated into EdgeBox, supports four capabilities in compatible UZ energy storage systems: SOC estimation, BMS-executed cell balancing, pack-aware power coordination, and cell-level diagnostics.
For SOC estimation, BEI combines physics-enhanced AI cell models with long-term operating history and real-time battery data to improve SOC estimates and reduce drift, helping users make better-informed energy decisions.

Illustrative SOC Scenarios

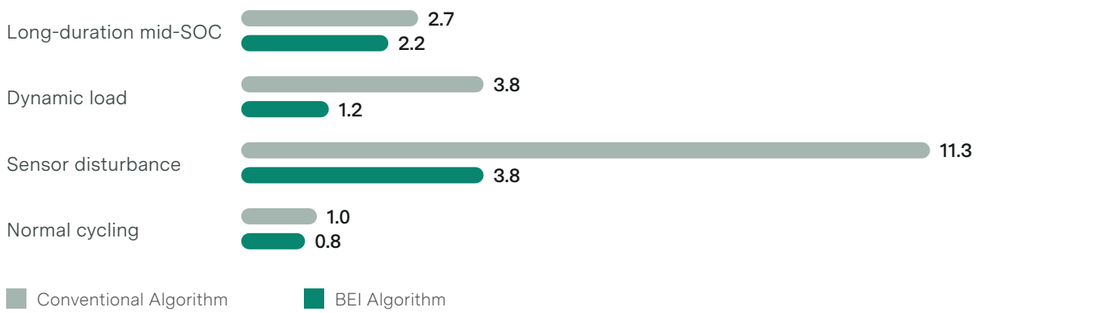


SOC Overestimation
May lead to unexpected shutdowns.

SOC Underestimation
May cause premature discharge cutoff, leaving usable energy untapped.

SOC Mean Absolute Error

SOC percentage points · Lower is better



*Internal test results under four evaluated conditions. SOC estimation accuracy depends on operating conditions and the SOC reference method.

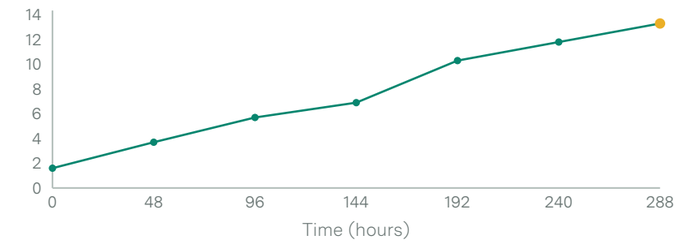
Targeted Cell-Level Balancing

Identify Imbalance and Calculate Balancing Requirements

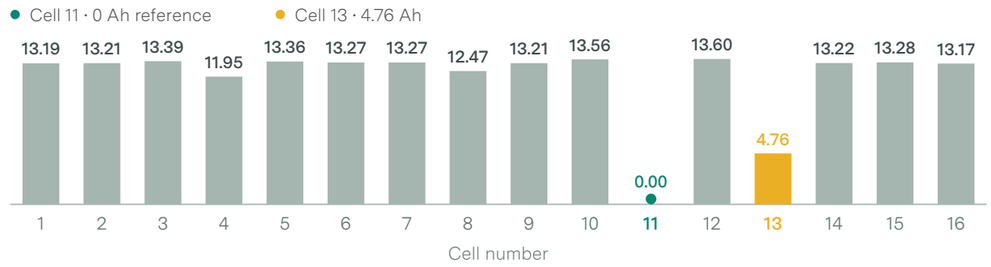
When one cell reaches its operating limit before the others, the battery pack may stop charging or discharging while other cells still have usable capacity. EdgeBox uses BEI to estimate imbalance-related capacity loss, calculate cell-level balancing requirements, support BMS-executed balancing, and track progress.

Quantify Imbalance Loss

Estimated capacity loss (%)



Remaining Balancing Capacity for Each Cell (Ah)



BEI calculates → BMS executes balancing → Progress reported

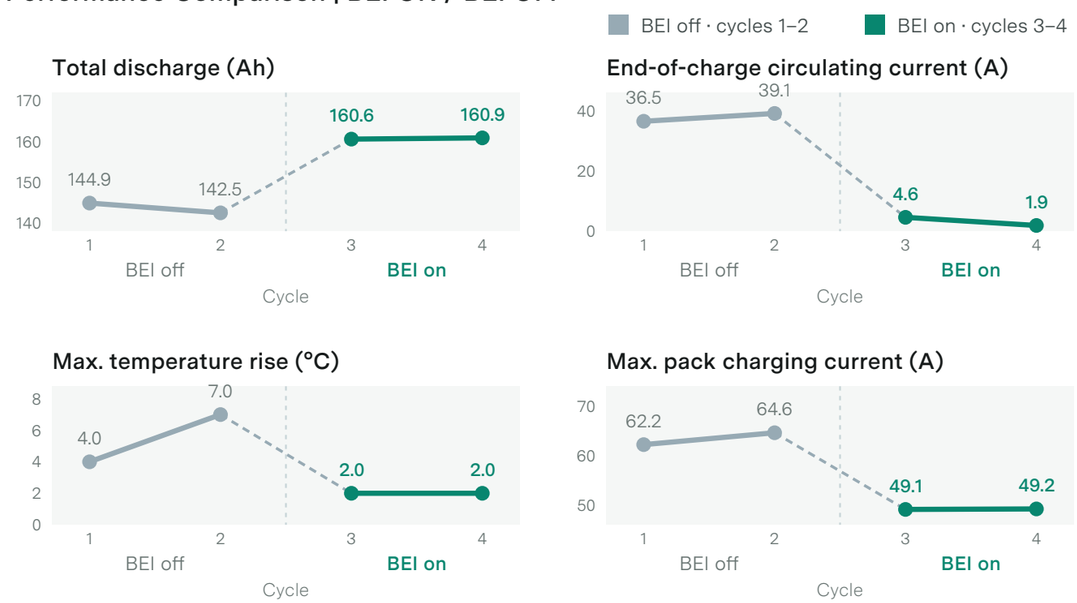
*BEI balancing control applies only to supported UZ models. Balancing is subject to system configuration, balancing-current, temperature, and BMS limits.

Pack-Aware Power Coordination

Smarter Coordination Across Parallel Battery Packs

Parallel battery packs can differ in internal resistance and available power. BEI estimates each pack's charge/discharge capability (SOP) and calculates overall operating limits for a compatible PCS to apply.
By accounting for these differences, BEI helps coordinate pack operation and reduce excessive circulating current, lowering the risks of overcurrent, limited usable capacity, overheating, and accelerated battery aging.

Performance Comparison | BEI ON / BEI OFF



Before vs. after BEI: comparison of group means

+11.9%	-91.4%	-63.6%	-22.5%
Total Discharge	Circulating Current	Temperature Rise	Max. Charging Current

Smarter Power Coordination for Parallel Battery Packs

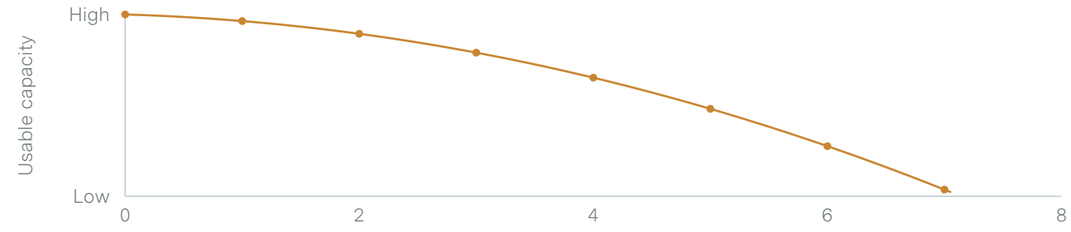
*BEI calculates operating limits based on estimated pack capabilities; a compatible PCS applies them. Results reflect the evaluated test conditions.

Targeted Cell-Level Balancing

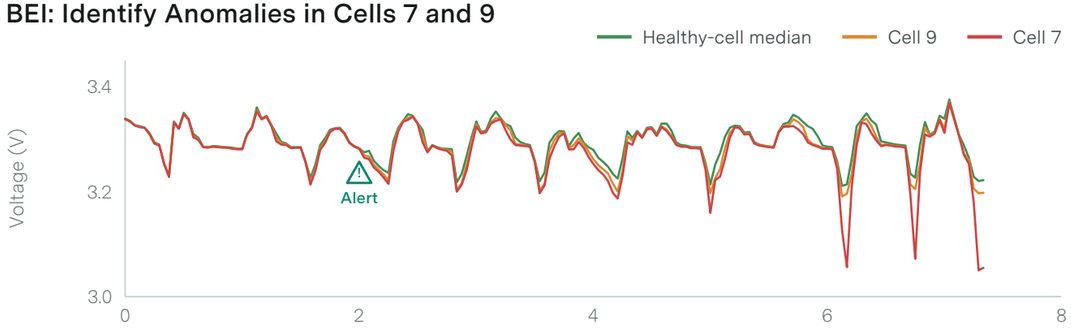
Identify Abnormal Cells for Targeted Maintenance

EdgeBox analyzes long-term cell data to detect abnormal behavior, including excessive self-discharge. By identifying affected cells and estimating the severity of abnormalities, it provides clearer evidence for targeted troubleshooting and maintenance decisions.

System View: Capacity Decline (Illustrative)



BEI: Identify Anomalies in Cells 7 and 9



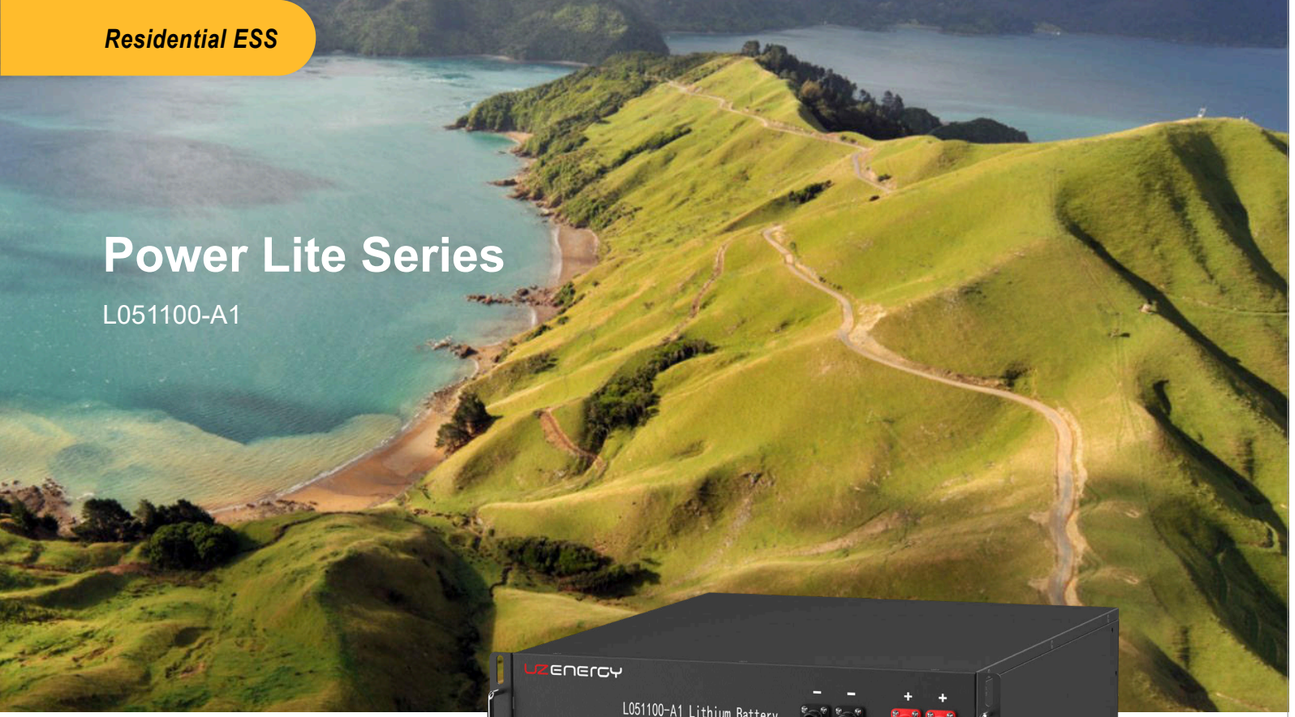
Self-Discharge Estimation vs. Reference

Cell	Reference	BEI Estimate	Absolute Deviation
Cell 7	80.0 mA	74.4 mA	5.6 mA
Cell 9	45.7 mA	43.9 mA	1.8 mA

Both flagged cells were identified in the same module.

*Self -discharge was simulated using external resistors. The capacity decline chart is Illustrative. Results reflect the evaluated conditions and do not represent a completed feld repair.

Residential ESS



Power Lite Series

L051100-A1

Features

Tier-one LFP Battery Cells

- Safe & Reliable LFP Battery
- Compact Design (3U in Height)
- Single Unit High Power Yield Support

Micro-grid Applications

Off-grid Energy Storage

UPS Power Supply

- Advanced BMS Control
- Multi-parallel Configuration, Up to 32
- Blackout and Emergency Backup

NEW

SES AI SoX™ EdgeBox Built-in

- AI-powered high-precision SoC monitoring
- Real-time SoH & safety anomaly detection
- Remote OTA updates via UZ Portal
- VPP-ready for future grid revenue

Model	L051100-A1
Cell Type	LiFePO4
Rated Energy	5.12 kWh
Rated Voltage	51.2 V
Rated Capacity	100 Ah
Working Voltage Range	44.8 V - 57.6 V
Max. Parallel Quantity	32 sets, 163.84 kWh
Rated Charge / Discharge Current	50 A, 0.5C
Max. Continuous Discharge Current	50 A, 0.5C
Dimensions (W*D*H)	440*530*132 mm (±5) / 17.32*20.87*5.20 in (±0.2)
Weight	~99.2 lbs / ~45 kg
Operating Temperature	Charge: 0 °C to 55 °C / 32 °F to 131 °F Discharge: -20 °C to 55 °C / -4 °F to 131 °F
Storage Temperature	-20 °C to 50 °C / -4 °F to 122 °F
Altitude	≤ 2,000 m / 6,562 ft
Communication	CAN / RS485 / Dry Contact / Wi-Fi Stick
Cycle Life [1*]	6,000 cycles
Warranty	10-Year
IP Rating	IP20
Certification	TUV / IEC 62619 / IEC 62040 / IEC 61000 / UN 38.3

[1*] Working condition: 0.5C @ 25 °C, 90% DoD.

- Can be installed by using F series rack (F13L) or fast installation components (H100)
- Can be installed by using wall-mounted components (C300A)
- Can be installed by using small rack (R100A)

※ Information is subject to change without notice.

If there is any change in product size and parameters, please refer to the latest information without prior notice.

Residential ESS



Power Lite-U Series

L051100-B

Features

- Tier-one LFP battery cells
- Off-grid energy storage
- Micro-grid applications
- UPS power supply

- Safe & Reliable LFP Battery
- Compact Design (3U in Height)
- Single Unit High Power Yield Support
- Advanced BMS Control
- Multi-parallel Configuration, up to 32
- Blackout and Emergency Backup

NEW

ENHANCED: SES AI SoX™ EdgeBox

- SoS safety diagnosis & SoD degradation gauging
- ±3% SoC accuracy, zero drift
- AI self-heating & temperature optimization
- 24/7 cloud monitoring

Model	L051100-B
Nominal Capacity	100 Ah
Nominal Energy	5.12 kWh
Usable Energy [1*]	5 kWh
Nominal Voltage	51.2 V
Rated Current	0.6C, 60 A
Working Voltage Range	43.2 V to 58.4 V
Max. Parallel Quantity	Max. 32 Sets in parallel, 163.84 kWh
Rated Charging Current	0.6C, 60 A
Max. Charging Continuous Current	0.6C, 60 A
Rated Discharge Current	0.6C, 60 A
Max. Discharge Continuous Current	1C, 100 A
Battery Max. Charge / Discharge Power	3.0 kW / 5.12 kW
Peak Discharge Current / Power	105 A / 5.37 kW, 1 min
Recommended Power	1.95 kW
Available SOC Range	0% to 100%
SOC Transportation Range	50%
Dimensions [W×D×H]	440 × 530 × 132 mm (±5) 17.32 × 20.87 × 5.20 in (±0.2)
Weight	~ 44.5 kg
Operating Temperature [2*]	Charge: 0 °C to 55 °C Discharge: -15 °C to 55 °C
Storage Temperature [3*]	-15 °C to 55 °C
Working Humidity	< 95% RH (non-condensing)
Altitude [4*]	≤ 2,000 m / 78.74 in
Communication	CAN, RS485, Dry Contact, Wi-Fi (Wi-Fi Stick Optional)
Certifications	UN 38.3 / UL1973 / UL9540A / UL9540 / IEC 61000 / IEC 62619
Designed Cycle Life (25 °C ± 2 °C)	6,000 Cycles
IP Rating	IP20
Cooling	Natural Cooling
Heating Power	205 W (Optional)
Fire Protection	Yes (Optional)
Emergency Stop Function	Yes (External wiring required)
Environmental Protection Standard	RoHS

[1*] Test Conditions, 100% DoD, 0.2C charge and discharge at 25°C ± 3°C for battery system at beginning of life (BOL). System usable energy may vary with different inverters.
[2*] Recommended operating temperature: 10 °C to 30 °C.
[3*] Recommended storage temperature: 10 °C to 30 °C.
[4*] Recommended working height is less than 2,000 m / 78.74 in, and the max. working height is 3,000 m / 118.1 in.

- Can be installed by using F series rack (F13L) or fast installation components (H100)
- Can be installed by using wall-mounted components (C300A)
- Can be installed by using small rack (R100A)

※ Information is subject to change without notice.



Power Lite Plus Series

PLPA-L1-5K1

Features

- Tier-one LFP battery cells
- Automatic Parallel Configuration
- Supports Charging Down to -5 °C
- IP65
- Easy One-stop Installation
- Slim & minimalist Design
- Power Outage and Emergency Backup
- Advanced BMS Control

NEW

SMART UPGRADE: SES AI SoX™ AI

- AI-driven automatic parallel configuration
- Precise SoC / SoP / SoE real-time calculation
- Low-temperature charging with AI thermal control
- SoX-enhanced safety & lifetime protection

Model	PLPA-L1-5K1
Cell Type	LiFePO4
Rated Capacity	100 Ah
Rated Voltage	51.2 V
Rated Energy	5.12 kWh
Working Voltage Range	43.2 V - 58.4 V
Max. Parallel Quantity	32 sets, 163.84 kWh
Rated Charge / Discharge Current	0.6C, 60 A
Max. Discharge Continuous Current	1C, 100 A at > 70% SOC
Max. Charge / Discharge Power	3.07 kW / 5.12 kW
Peak Discharge Current / Power	105 A / 5.37 kW, 1 min.
Available SOC Range	0% ~ 100%
Dimensions (W x D x H)	460*165*652 mm (±5) 18.11*6.50*25.67 in (±0.2)
Weight	~110.2 lbs / ~50 kg
Operating Temperature [1*]	Charge: -5 °C to 55 °C / 23 °F to 131 °F Discharge: -15 °C to 55 °C / 5 °F to 131 °F
Storage Temperature [2*]	-15 °C to 55 °C / 5 °F to 131 °F
Working Humidity	5% to 95% RH (non-condensing)
Altitude	≤ 2,000 m / 6,562 ft
Communication	CAN / RS485 / Wi-Fi
Cycle Life [3*]	6,000 cycles
Heating Film in Pack	Yes
Installation Methods	Floor-standing / Wall-mounted
Warranty	10-Year
IP Rating	IP65
Certification	IEC 62619, IEC 62040, IEC 61000, UN 38.3

[1*] Recommended operating temperature: 10 °C to 30 °C / 50 °F to 86 °F

[2*] Recommended storage temperature: 10 °C to 30 °C / 50 °F to 86 °F

[3*] Working condition: 0.5C @ 25 °C, 90% DoD.

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Residential ESS

Power Lite Plus Series

PLPA-L1-10K2

Features

CLEAN ENERGY COUNCIL · UL · CE · IEC · UN38.3 · TÜVRheinland · RoHS · REACH

Tier-one LFP battery cells

Automatic Parallel Configuration

Supports Charging Down to -5 °C

IP65

- Easy One-stop Installation
- Slim & minimalist Design
- Power Outage and Emergency Backup
- Advanced BMS Control

NEW

SMART UPGRADE: SES AI SoX™ AI

- AI-driven automatic parallel configuration
- Precise SoC / SoP / SoE real-time calculation
- Low-temperature charging with AI thermal control
- SoX-enhanced safety & lifetime protection

Model	PLPA-L1-10K2
Cell Type	LiFePO4
Rated Capacity	200 Ah
Rated Voltage	51.2 V
Rated Energy	10.24 kWh
Working Voltage Range	43.2 V - 58.4 V
Max. Parallel Quantity	32 sets, 327.68 kWh
Rated Charge / Discharge Current	0.6C, 120 A
Max. Discharge Continuous Current	0.6C, 120 A
Max. Charge / Discharge Power	6.14 kW / 6.14 kW
Peak Discharge Current / Power	160 A / 8.19 kW, 1 min.
Available SOC Range	0% to 100%
Dimensions (W x D x H)	550*165*867 mm (±5) 21.65*6.50*31.21 in (±0.2)
Weight	~213.9 lbs / ~94 kg
Operating Temperature [1*]	Charge: -5 °C to 55 °C / 23 °F to 131 °F Discharge: -15 °C to 55 °C / 5 °F to 131 °F
Storage Temperature [2*]	-15 °C to 55 °C / 5 °F to 131 °F
Working Humidity	5% to 95% RH (non-condensing)
Altitude	≤ 2,000 m / 6,562 ft
Communication	CAN / RS485 / Wi-Fi
Cycle Life [3*]	6,000 cycles
Heating Film in Pack	Yes
Installation Methods	Floor-standing / Wall-mounted
Warranty	10-Year
IP Rating	IP65
Certification	IEC 62619, IEC 62040, IEC 61000, UN 38.3

[1*] Recommended operating temperature: 10 °C to 30 °C / 50 °F to 86 °F

[2*] Recommended storage temperature: 10 °C to 30 °C / 50 °F to 86 °F

[3*] Working condition: 0.5C @ 25 °C, 90% DoD.

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Power Lite Plus Series

PLPA-L1-10K2-U

Features

- Tier-one LFP battery cells
- Automatic Parallel Configuration
- Supports Charging Down to -5 °C
- IP65
- Easy One-stop Installation
- Slim & minimalist Design
- Power Outage and Emergency Backup
- Advanced BMS Control

NEW

SMART UPGRADE: SES AI SoX™ AI

- AI-driven automatic parallel configuration
- Precise SoC / SoP / SoE real-time calculation
- Low-temperature charging with AI thermal control
- SoX-enhanced safety & lifetime protection

Model	PLPA-L1-10K2-U
Cell Type	LiFePO4
Rated Capacity	200 Ah
Rated Voltage	51.2 V
Rated Energy	10.24 kWh
Working Voltage Range	44.8 V - 58.4 V
Max. Parallel Quantity	32 sets, 327.68 kWh
Rated Charge / Discharge Current	0.6C, 120 A
Max. Discharge Continuous Current	0.6C, 120 A
Max. Charge / Discharge Power	6.14 kW
Peak Discharge Current / Power	160 A / 8.19 kW, 1 min.
Available SOC Range	0% to 100%
Dimensions (W x D x H)	550x165x1,000 mm (±5) 21.65*6.50*39.37 in (±0.2)
Weight	~213.9 lbs / ~94 kg
Operating Temperature [1*]	Charge: -5 °C to 55 °C / 23 °F to 131 °F Discharge: -15 °C to 55 °C / 5 °F to 131 °F
Storage Temperature [2*]	-15 °C to 55 °C / 5 °F to 131 °F
Working Humidity	5% to 95% RH (non-condensing)
Altitude	≤ 2,000 m / 6,562 ft
Communication	CAN / RS485 / Wi-Fi
Cycle Life [3*]	6,000 cycles
Heating Film in Pack	Yes
Installation Methods	Floor-standing / Wall-mounted
Warranty	10-Year
IP Rating	IP65
Certification	UL 1973 / UL 9540A / FCC / UN 38.3

[1*] Recommended operating temperature: 10 °C to 30 °C / 50 °F to 86 °F

[2*] Recommended storage temperature: 10 °C to 30 °C / 50 °F to 86 °F

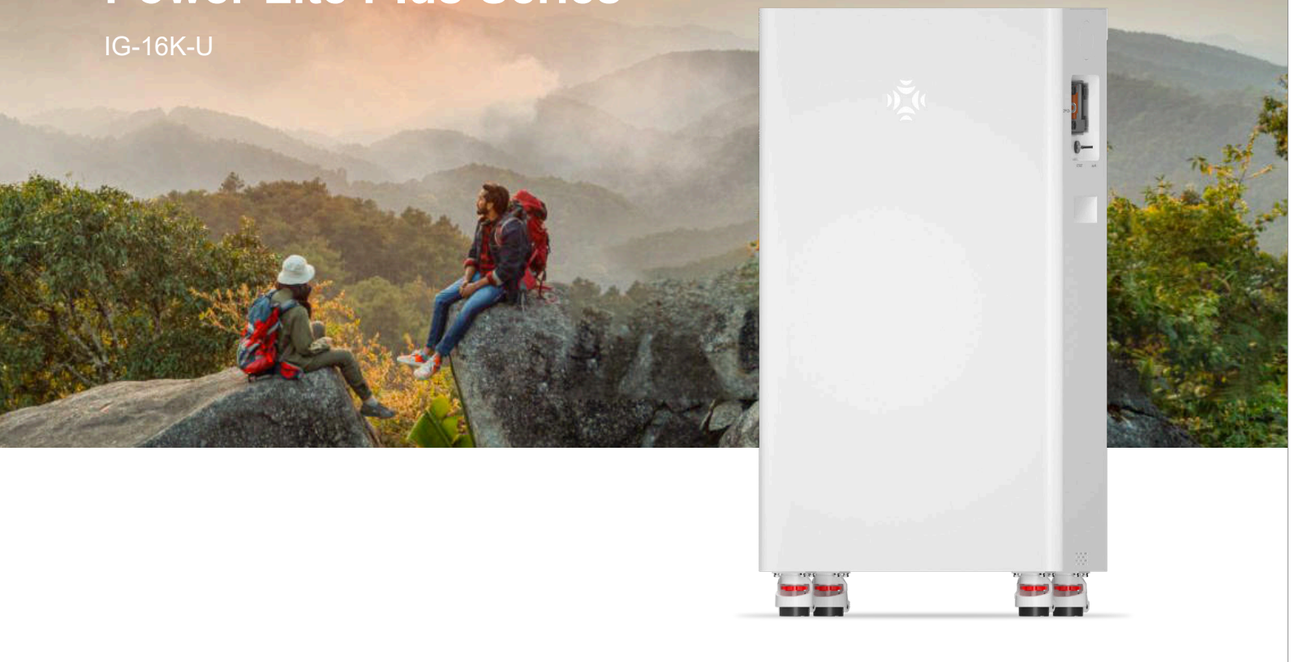
[3*] Working condition: 0.5C @ 25 °C, 90% DoD.

※ Information is subject to change without notice.

If there is any change in product size and parameters, please refer to the latest information without prior notice.

Power Lite Plus Series

IG-16K-U



Features

FC UL UN38.3

4 Layers of Battery Protection

① DC Breaker
② High-Temperature-Resistant Insulation Pads
③ Built-in Fire Extinguishers
④ Pressure Relief Valve

IP65

Tier-one LFP battery cells

Supports Charging Down to -20 °C

- Easy Installation
- Advanced BMS Control
- Parallel Capacity Up to 1028.48 kWh
- Blackout and Emergency Backup
- Remote Monitoring with Over-the-air Updates
- Compatible with a Wide Range of Inverters

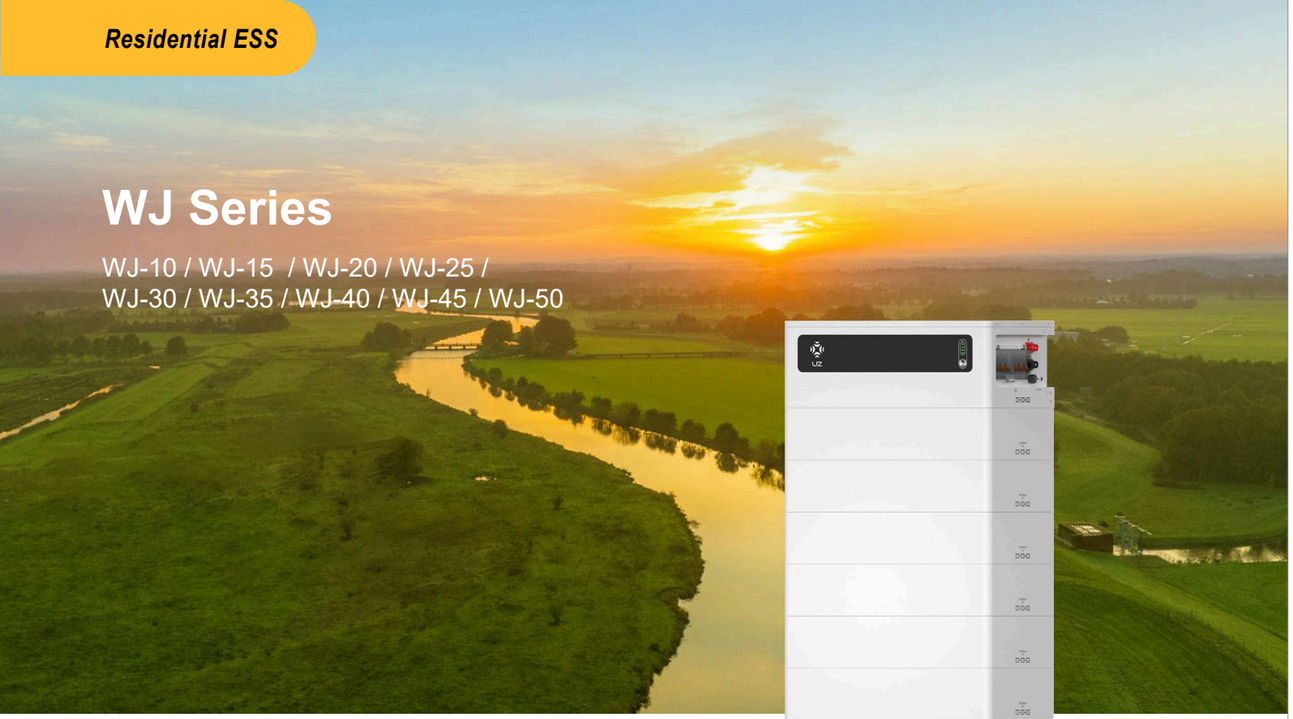
NEW

SMART UPGRADE: SES AI SoX™ AI

- AI-driven automatic parallel configuration
- Precise SoC / SoP / SoE real-time calculation
- Low-temperature charging with AI thermal control
- SoX-enhanced safety & lifetime protection

Model	IG-16K-U
Nominal Capacity	314 Ah
Nominal Energy	16.0 kWh
Usable Energy [1*]	16.0 kWh
Nominal Voltage	51.2 V
Working Voltage Range	43.2 V to 58.4 V
Max. Parallel Quantity [2*]	Max. 64 units in parallel, 1,024 kWh
Rated Charge / Discharge Current	160 A / 160 A
Max. Charge / Discharge Current [3*]	160 A / 200 A
Max. Charge / Discharge Power	8.2 kW / 10.24 kW
Peak Discharge Current / Power	250 A / 12.8 kW, 15 s
Recommended Power	7.8 kW
Available SOC Range	10% to 100% (Adjustable)
Transportation SOC Range	50% ± 5%
Dimensions (W × D × H)	500 × 235 × 943 mm (±5) 19.7 × 9.3 × 37.1 in (±0.2)
Weight	~125 kg / ~275.6 lb
Operating Temperature [4*]	Charge: -15 °C to 55 °C / 5 °F to 131 °F Discharge: -20 °C to 55 °C / -4 °F to 131 °F
Cell Temperature Protection	Charge Spec: < 0 °C or > 60 °C / < 32 °F or > 140 °F Charge Recovery: > 5 °C or < 50 °C / > 41 °F or < 122 °F Discharge Spec: < -20 °C or > 60 °C / < -4 °F or > 140 °F Discharge Recovery: > -15 °C or < 50 °C / > 5 °F or < 122 °F
Storage Temperature [5*]	-20 °C to 55 °C / -4 °F to 131 °F
Working Humidity	5% to 95% RH (non-Condensing)
Altitude	≤ 9,842 feet (≤ 3,000 m)
Communication	CAN, RS485, Dry Contact, Wi-Fi
Certifications	IEC 62619, IEC 61000, IEC 62040, CEC, UL 9540, UL 9540A, UL 1973, UN 38.3, FCC
Designed Cycle Life [6*]	8,000 cycles
Warranty	10 years
IP Rating	IP65
Cooling	Natural Cooling
Heating Function [7*]	Yes
Fire Extinguishing Device [7*]	Yes

[1*] Test conditions: 100% DoD, 0.2C charge and discharge at 25 °C ± 3 °C for a battery system at beginning of life (BOL). System usable energy may vary with different inverters.
[2*] Recommended: ≤16 Parallel Connections, 256 kWh.
[3*] Derating will occur depending on temperature and SOC.
[4*] Without Heating Function: Charge: 0 °C to 55 °C / 32 °F to 131 °F, Discharge: -20 °C to 55 °C / -4 °F to 131 °F.
[5*] Recommended Storage Temperature: 10 °C to 30 °C / 50 °F to 86 °F.
[6*] 0.5C, 90% DoD, 25 ± 2 °C, to 70% SOH.
[7*] Standard configuration; actual shipment may vary depending on the specific order.
※ Information is subject to change without notice.



WJ Series

WJ-10 / WJ-15 / WJ-20 / WJ-25 /
WJ-30 / WJ-35 / WJ-40 / WJ-45 / WJ-50

Features

IEC UN38.3

Easy Installation

- Tier-One LFP Battery Cells
- Advanced BMS Control
- Dual-pole Circuit Breaker Protection (Optional)

Automatic Parallel Configuration

- Max. capacity 50 kWh, Max. output power 10 kW
- Parallel connection between clusters, with maximum support of 300 kWh.

Supports Charging Down to -20 °C

IP65

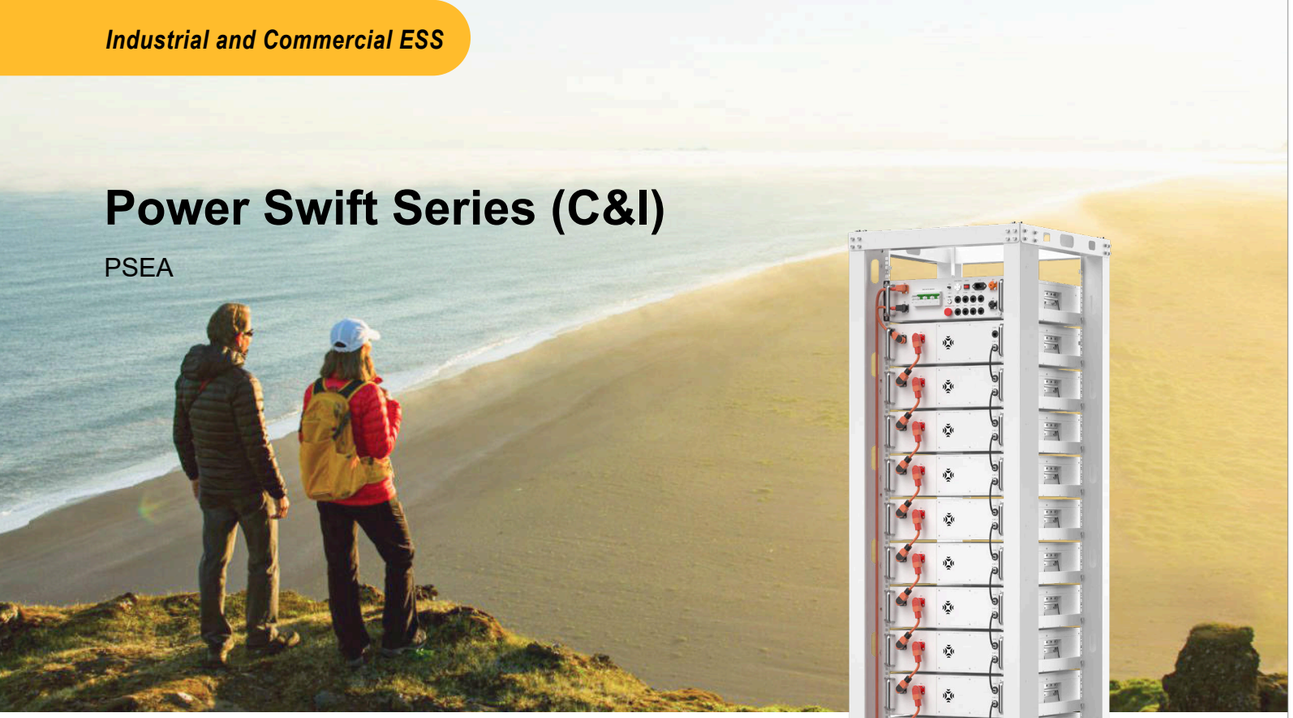
NEW

INTELLIGENT: SES AI SoX™ EdgeBox

- Cell-level AI safety monitoring (SoS)
- Electrode degradation prediction (SoD)
- High-accuracy state estimation for off-grid & backup
- Edge-based fast response for black-start

Model	WJ-10	WJ-15	WJ-20	WJ-25	WJ-30	WJ-35	WJ-40	WJ-45	WJ-50
Cell Type	LiFePO4								
Rated Capacity [Ah]	200	300	400	500	600	700	800	900	1000
Module Number	2	3	4	5	6	7	8	9	10
Rated Energy [kWh]	10.24	15.36	20.48	25.6	30.72	35.84	40.96	46.08	51.2
Usable Energy [kWh]	9.22	13.82	18.43	23.04	27.65	32.26	36.86	41.47	46.08
Rated Voltage [V]	51.2								
Voltage Range [V]	43.2 to 58.4								
Rated Charge/Discharge Current [A]	120	180	200	200	200	200	200	200	200
Max. Charge/Discharge Current [A]	120/200	180/200	200/200	200/200	200/200	200/200	200/200	200/200	200/200
Rated Charge/Discharge Power [kW]	6.1	9.2	10	10	10	10	10	10	10
Max. Charge/Discharge Power [kW]	6.1/10	9.2/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10
Dimensions (WxDxH) [mm]	640 (W) × 360 (D)								
	462.8	601.6	740.4	879.2	1018	1,156.8	1,294.6	1,434.4	1,573.2
Weight [kg]	101	147	193	239	285	331	377	423	469
IP Rating	IP65								
Altitude [m]	3,000								
State of Charge (SOC) Range	10% to 100% (Operating)								
Warranty	10 years or 6,000 cycles, SOH ≥70% @ 25 °C								
Operating Temperature [°C]	-20 to 55								
Noise Emission	< 35 dB								
Operating Humidity	5% to 95% RH (Non-Condensing)								
Cooling Method	Natural Cooling								
Heating Power	Optional								
Communication	CAN / RS485								
Fire Protection	Yes								
Certification	UN 38.3 / IEC 62619 / IEC 61000 / IEC 62040								

※ Information is subject to change without notice.
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Power Swift Series (C&I)

PSEA

Features

CE IEC UN38.3 TÜVRheinland

Tier-one LFP battery cells

Blackout and Emergency Backup

Advanced BMS Control

Multi-parallel Configuration among Battery Clusters

- Advanced BMS Control for Superior System Management
- Enhanced Energy Management with Active Balancing Technology
- Automatic Master-Slave Recognition for Seamless Integration
- Multi-Parallel Configuration Across Battery Clusters
- Comprehensive Communication Interface for Inverters and EMS

NEW

SOX™ AI + VPP ENABLED

- SoX AI-powered BMS & active balancing
- Real-time power & energy readiness (SoP/SoE)
- VPP aggregation & demand response support
- 24/7 remote monitoring & proactive alerts

Battery Module



Model	H051100-A
C-rate	1C
Max. Charge / Discharge Current	100 A
Operating Temperature	-15 °C to 55 °C / 5 °F to 131 °F
Humidity	5% to 95% (non-condensing)
IP Rating	IP20
Weight	~99.2 lbs / ~45 kg
Dimensions (H x W x D)	132x440x530 mm (±5) 5.20*17.32*20.87 in (±0.2)

Control Box



Model	HVC-0750-100-C2A
Max. Current	100 A
Max. Voltage	750 V
Communication	CAN / RS485 / LAN
Operating Temperature	-15 °C to 55 °C / 5 °F to 131 °F
IP Rating	IP20
Weight	~48.5 lbs / ~22 kg
Dimensions (H x W x D)	132x440x530 mm (±5) 5.20*17.32*20.87 in (±0.2)

System Parameters

Cell Type	LiFePO4						
Model	PSEA-H1 -30K	PSEA-H1 -35K	PSEA-H1 -40K	PSEA-H1 -45K	PSEA-H1 -50K	PSEA-H1 -55K	PSEA-H1 -60K
Battery Module Quantity	6	7	8	9	10	11	12
Rated Voltage (Vdc)	307.2	358.4	409.6	460.8	512.0	563.2	614.4
Rated Capacity	100 Ah						
Max. Parallel Quantity	10 sets, 610 kWh						
Rated Current (Recommended)	50 A, 0.5C						
Max. Continuous Discharge Current	100 A, 1C						
Dimensions (W*D*H), without Feet	630*655*2,070 mm (±5) / 24.80*25.79*81.50 in (±0.2)						
Operating Temperature	Charge: 0 °C to 55 °C / 32 °F to 131 °F Discharge: -15 °C ~ 55 °C / 5 °F ~ 131 °F						
Storage Temperature	-15 °C to 55 °C / 5 °F to 131 °F						
Altitude	< 3,000 m / 9,843 ft						
Communication	CAN / RS485 / ETH / Dry Contact						
Cycle Life[1*]	6,000 cycles						
Warranty	10-Year						
IP Rating	IP20						
Certification	TUV / IEC 62619 / CE-IEC 61000 / UN 38.3						

[1*] Working condition: 0.5C @ 25 °C, 90% DoD.

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Power Mega Series (C&I)

PMA-A050K-P-110K

Features

CE IEC UN38.3

Safe
Intelligent early warning and precise thermal management.

Simple
Occupies only 1.3 m² per cabinet.

Smart
Remote monitoring and proactive alerts.

Scalability
Supports parallel expansion for a scalable power range from 50 kW to 300 kW.

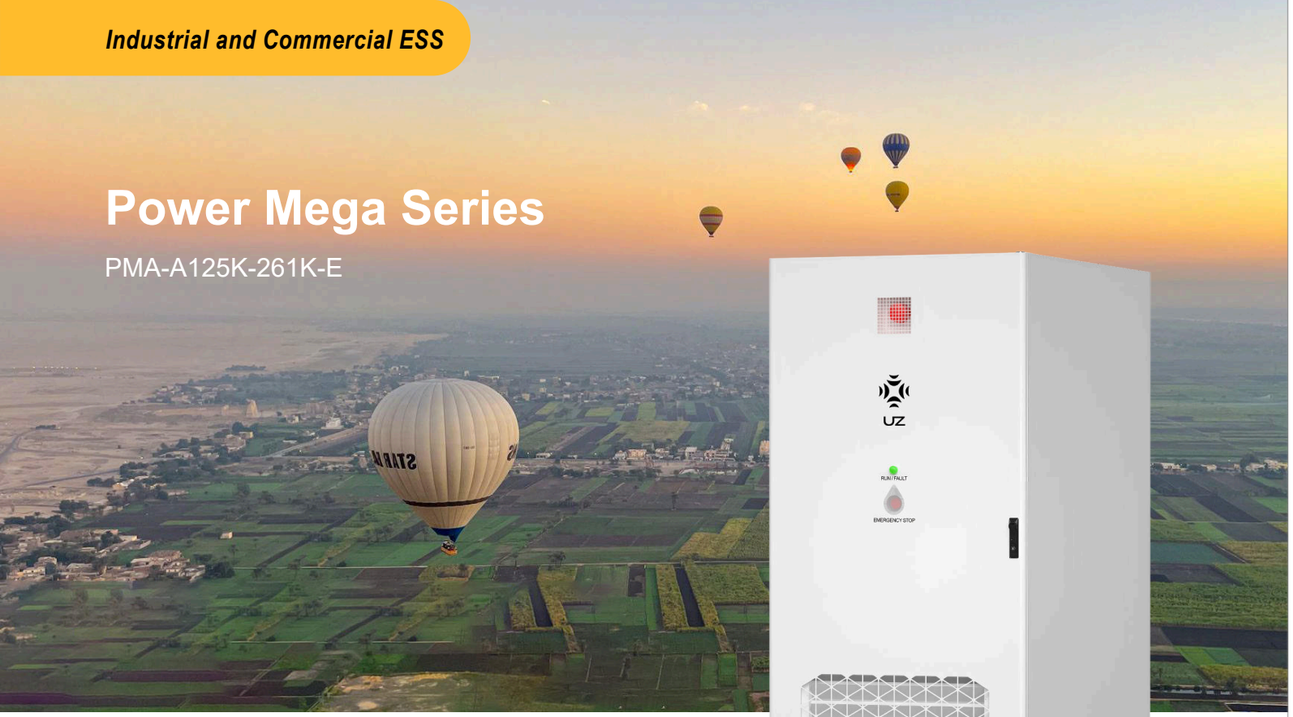
NEW

SOX™ AI INTELLIGENT SYSTEM

- AI precision thermal management
- Predictive maintenance & fault early warning
- VPP co-optimization: maximize revenue + protect battery
- <500 ms edge response for grid services

Model	PMA-A050K-P-110K
PV	
Maximum Input Power	100 kW
Startup Voltage	180 V
Maximum PV Voltage	1,000 Vdc
Rated PV Voltage	600 Vdc
MPPT Operating Voltage Range	330-850 Vdc
Number of MPPTs	4
Number of Inputs per MPPT	2
Maximum Input Current (per MPPT)	40 A×4
Maximum Short-Circuit Current (per MPPT)	50 A×4
Battery	
Nominal capacity	110 kWh
Battery capacity	314 Ah
Rated Voltage	352 Vdc
Battery Voltage Range	308~396 Vdc
Rated Charge/Discharge Current	140 A
Maximum Charge/Discharge Current	165 A
AC	
Rated Output Power	50 kW
Maximum Output Power	50 kW
Rated Input Power	50 kW
Maximum Input Power	50 kW
Rated Output Current	76 A
Maximum Output Current	76 A
Rated Voltage (Input and Output)	3L/N/PE; 400 V
Grid Frequency	50Hz/60Hz
Total Voltage Harmonic Distortion	<3% @ Rated Power & Linear Load
Temperature Control and Fire Protection	
Temperature Control Type	Smart Air Conditioner, Smart Fan
Fire Suppression Agent	Aerosol (or Perfl uorohexanone)
Fire Protection Control Type	Composite Detection, Cabinet-Level Suppression
Mechanical	
Weight	Net Weight: 1,350 kg Gross Weight (with packaging): 1,400 kg
Dimensions (W×D×H)	Unit Dimensions: 1,000 × 1,320 × 2,145 mm Dimensions with Packaging: 1,070 × 1,390 × 2,285 mm
Communication Method	Ethernet 4G

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Power Mega Series

PMA-A125K-261K-E

Features

CE UN38.3

- **Flexible and Easily Expanded as per the Requirements**
- **Integrate all Things and Easy for Installation**
- **Supports Both On-grid and Off-grid Operations**
- **Equipped with Cloud-Based Monitoring Capabilities**

NEW

SOX™ AI INTELLIGENT SYSTEM

- AI precision thermal management
- Predictive maintenance & fault early warning
- VPP co-optimization: maximize revenue + protect battery
- <500 ms edge response for grid services

Model	PMS-A125K-261L-E
AC Side Parameters	
Rated Power	125 kW
Output Voltage	400 V / 230 V (-15% - 15%)
Grid Frequency	50 Hz / 60 Hz
Power Factor	-1~1
Wiring Method	Three-phase Four-wire + PE
DC Side Parameters	
Maximum Output Current	200 A
Battery Cell Type	LFP 3.2 V / 314 Ah
Rated Capacity	261 kWh
Depth of Discharge	≤100% DOD (Recommended)
Voltage Range	650 - 950 V
Maximum Current	157 A
Battery Pack Specifications	166.4 V / 314 Ah (1P52S)
Number of Battery Packs	5 units
System Parameters	
Operating Temperature	-30 to 55 °C (Derating above 45 °C)
Relative Humidity	0 to 95%, Non-condensing
Altitude	3,000 m (Derating above 2,000 m)
Noise	<70 dB @ 1 m
Communication Methods	LAN, 4G (optional), BT (optional), Wi-Fi (optional)
Protection Rating	IP55
Corrosion Resistance Rating	C3, Entire Cabinet Galvanized Steel Plate
Heat Dissipation Method	Liquid Cooling
Isolation Method	Non-Isolated
Fire Protection Method	Pack-level Perfluorohexanone Fire Suppression + Explosion Relief System + Water Fire Protection (Energy Storage Cabinet)
Third-Party Certification	CB / CE, Transportation
System Dimensions (L×W×H)	1,400 × 1,000 × 2,280 mm
System Weight	2,330±10 KG

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Power Mega Series

PMA-A125K-261K -U

Features

CE UN38.3

- **Flexible and Easily Expandable as Required**
- **Integrate all Things and Easy for Installation**
- **Supports Both On-grid and Off-grid Operations**
- **Equipped with Cloud-Based Monitoring Capabilities**

NEW

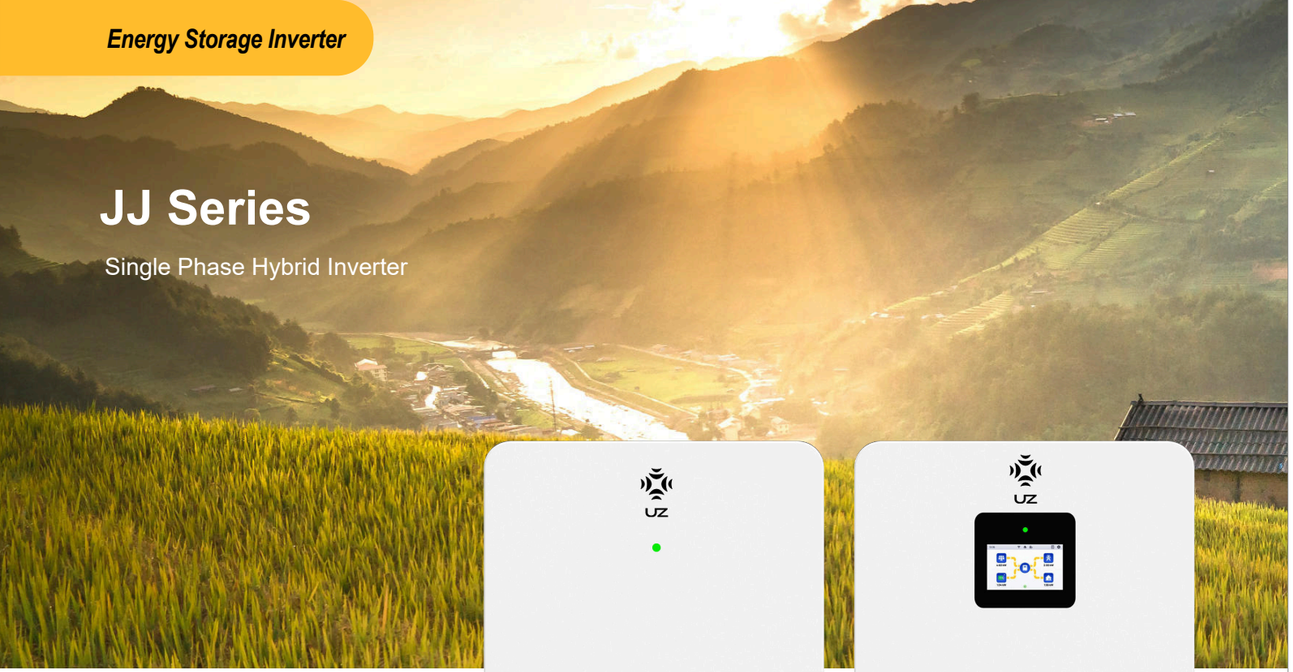
SOX™ AI INTELLIGENT SYSTEM

- AI precision thermal management
- Predictive maintenance & fault early warning
- VPP co-optimization: maximize revenue + protect battery
- <500 ms edge response for grid services

Model	PMU-A125K-261L-U
Battery Parameters	
Cell technology	LFP-3.2 V / 314 Ah
Battery pack (Wh/V)	52.25 kWh, 166.4 V
Number of packs	5
Battery pack protection level	IP67
Rated capacity	261.25 kWh
Rated voltage	832 V
Rated current	157 A
Voltage range	728 V ~ 936 V
Charge / discharge rate	0.5 P
AC Side Parameters	
Rated power	125 kW
Rated voltage	480 V±15%
Rated frequency	50 Hz / 60 Hz
Rated output current	180 A
Power factor	-1 ~ 1
Charge/discharge switching time	< 100 ms
PCS maximum efficiency	98.5%
Overload capacity	110% (long-term), 120% (1 min)
Other Parameters	
Dimension (W×D×H)	1,000×1,420×2,250 mm
	39.37×55.91×88.58 inch
Weight	2,700 kg (5,952.5 lb)
IP Rating	IP55
Cooling method	Liquid cooling (PCS) + Liquid cooling (Battery)
FFS	Aerosol + combustible gas detection and exhaust
Standard Compliance	
PCS inverter certifications	IEEE 1547, UL1741 SB, CSA C22.2 No. 107.1-16
Battery compliance	UN 38.3, UL 1973, UL 9540A, UL 9540, NFPA 69

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All JJ / IT / BD series inverters support **SES AI SoX™ EdgeBox communication (CAN/RS485/LAN/Wi-Fi)** Seamless connection for AI monitoring, VPP control, and OTA updates.

Features

Excellent Performance
- Support high power PV panel with 18A PV input current
- Max battery charge/discharge current of 135A
- Continuous 110% of nominal AC power

High Flexibility
- Support 40-65V Lithium or Lead-acid battery
- Max. 9 units parallel for on-grid and off-grid operation
- Support generator/smart load/AC coupling
- Plug and play for easy installation

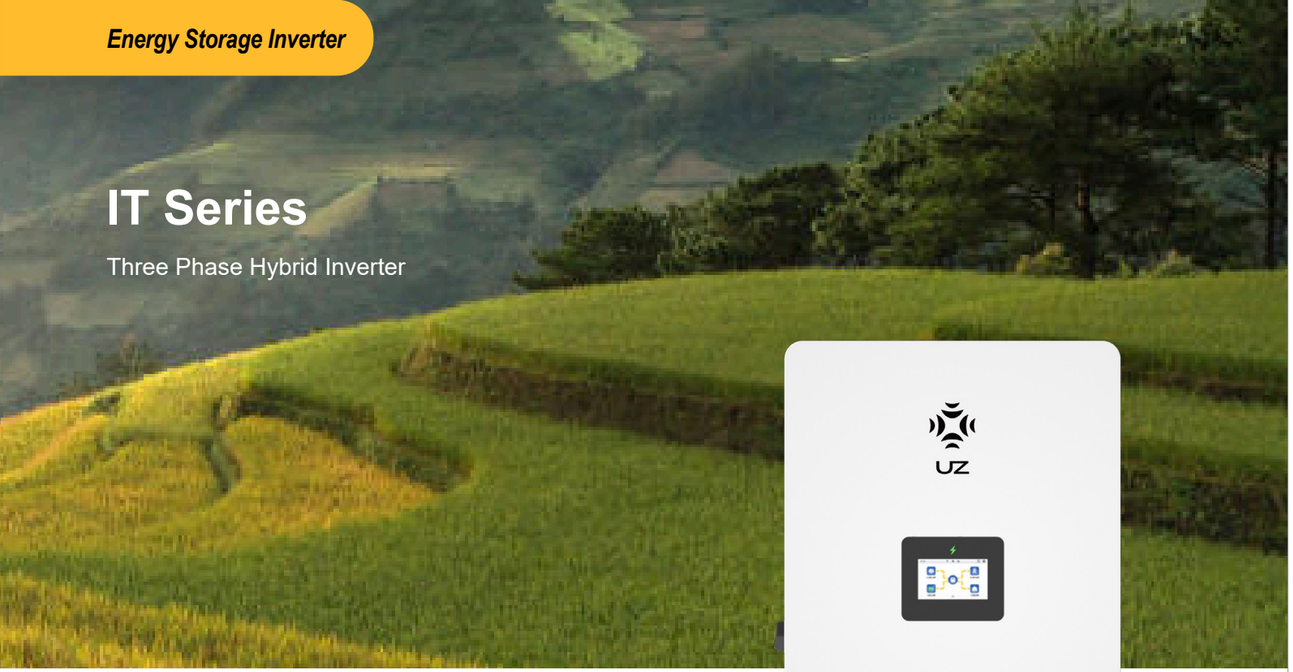
Safety & Reliability
- IP65: Indoor or outdoor installation
- Seamless transition to backup mode, for protection against power outages
- Multiple built-in protections

Intelligent Maintenance
- Intelligent Management, local & remote monitoring
- 3 application modes, mixed with battery scheduling
- LCD touch color screen, easy to operate (Optional)

Model	SEL 3KTH-75TE	SEL 3K6TH-75TE	SEL 3K68TH-75TE	SEL 4K6TH-110TE	SEL 5KTH-110TE	SEL 6KTH-135E
Efficiency						
Max. Efficiency (PV to AC)	97.3%					
Eur. Efficiency (PV to AC)	96.8%					
Max. Efficiency (BAT to AC)	94.3%					
Input (PV)						
Max. PV Usable Power	10,000W					
Max. PV Voltage	550V					
Start-up Voltage	90V					
MPPT Operating Voltage Range	70V-540V					
Max. Input Current	18A/18A					
Max. Short Circuit Current	25A/25A					
Nos. of MPPT	2					
String per MPPT	1/1					
Input / Output (BAT)						
Battery Type	Lithium-ion/Lead-acid					
Nominal Battery Voltage	48V					
Battery Voltage Range	40V-65V					
Max. Charge/Discharge Current	75A/75A	75A/75A	75A/75A	110A/110A	110A/110A	135A/135A
Max. Charge/Discharge Power	4,000W/4,000W	4,000W/4,000W	4,000W/4,000W	5,500W/ 5,500W	5,500W/ 5,500W	6,600W/ 6,600W
Input/Output (Grid)						
Nominal AC Output Power	3,000W	3,600W	3,680W	4,600W	5,000W	6,000W
Max. AC Apparent Power	3,300VA	3,960VA	3,680VA	4,600VA	5,500VA	6,600VA
Max. AC Output Power (PF=1)	3,300W	3,960W	3,680W	4,600W	5,500W	6,600W
Max. AC Output Current	15A	18A	16.7A	21A	25A	28.7A
Max. Input Power From Grid	7,500W	7,500W	7,500W	9,000W	9,000W	9,000W
Max. Input Current From Grid	34A	34A	34A	41A	41A	41A
Rated Grid Voltage	220V/230V/240V, L+N+PE					
Grid Voltage Range	150V-300V (Adjustable)					
Rated Grid Frequency	50Hz/60Hz					
AC Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)					
Power Factor	> 0.99@rated power (Adjustable 0.8 LD - 0.8 LG)					
THDi	<3%@Rated Power					
Output (Backup)						
Nominal Output Power	3,000W	3,600W	3,680W	4,600W	5,000W	6,000W
Max. AC Output Power (PF=1)	13.6A/13.0A/12.5A	16.4A/15.7A/15.0A	16.7A/16.0A/15.3A	20.9A/20.0A/19.2A	22.7A/21.7A/20.8A	27.3A/26.1A/25.0A
Nominal Output Current	3,600VA	4,320VA	4,416VA	5,520VA	6,000VA	7,200VA
Peak Output Apparent Power(1s)	6,000VA	7,200VA	7,360VA	9,200VA	10,000VA	10,000VA
Nominal Output Voltage	220V/230V/240V, L+N+PE					
Nominal Output Frequency	50Hz/60Hz					
Transfer Time	10ms (Typical)					
THDV	<3%@100% R Load					
Protection						
Protection Category	Class I					
DC Switch	Yes					
Anti-islanding Protection	Yes					
AC Overcurrent Protection	Yes					
PV/AC Overvoltage Protection	DC Type II, AC Type III					
AC Short Circuit Protection	Yes					
PV Reverse Protection	Yes					
Surge Arrester	DC Type III, AC Type III (Type II Optional)					
Insulation Detection	Yes					
Leakage Current Protection	Yes					
General						
Max. Operating Altitude	4000m (>2000m derating)					
Protection Degree	IP65					
Operating Temperature Range	-25℃~60℃(>45℃ derating)					
Relative Humidity	0~100%					
Cooling Method	Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Smart Fan Cooling
Mounting	Wall bracket					
Dimensions (W*H*D)	377mm*452mm*206mm					
Weight	20Kg					
HMI & COM						
Display	LED, LCD (Optional)					
Communication Interface	RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI ,USB (for Wi-Fi/LAN,optional)					
Certification						
Grid Code	IEC 61727/62116/61683/60068, NRS 097-2-1, G98, G99, VDE4105, EN 50549-1/-10, AS 4777.2					
Safety	IEC/EN 62109-1&2					
EMC	IEC/EN 61000/62920					
Warranty	5 Years/10 Years (Optional)					

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.

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All JJ / IT / BD series inverters support
SES AI SoX™ EdgeBox communication (CAN/RS485/LAN/Wi-Fi)
Seamless connection for AI monitoring, VPP control, and OTA updates.

Features

Excellent Performance

- 3 MPPTs with Maximum PV Input Power of 30 kW
- Supports High-Power Modules with 20A PV Input Current
- Maximum Charging and Discharging Current: 380A
- Maximum Grid Passthrough Current: 45A

High Flexibility

- Support 40-64V Lithium or Lead-acid battery
- 3-Phase unbalanced output: Increases the self-use rate of solar energy
- Support smart load/generator/AC Coupling
- Max. 9 units parallel for on-grid and off-grid operation

Safety & Reliability

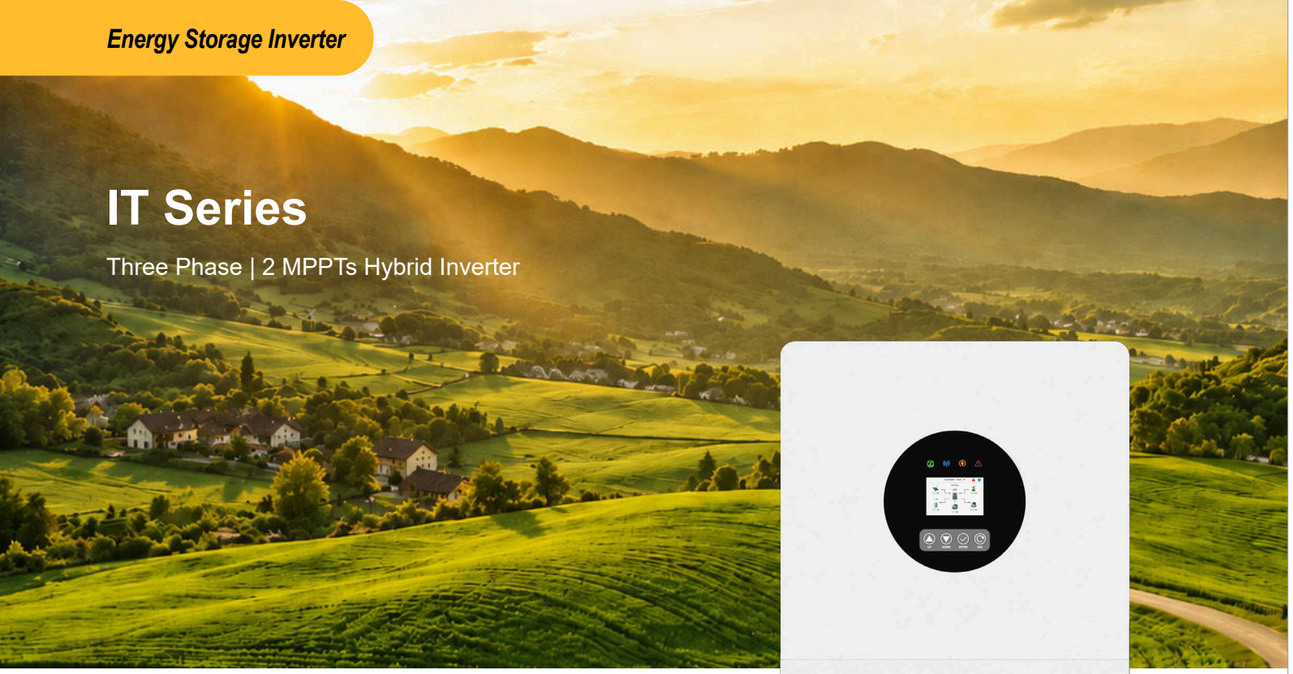
- IP65: Indoor or outdoor installation
- MC4 PV connectors, convenient for installation
- Multiple built-in protections, with optional AFCI 2.0/RSD/Battery breaker
- Seamless transition to backup mode, for protection against power outages

Intelligent Maintenance

- 4.3" LCD color touchscreen, easy to operate
- 6 time periods for battery charging/discharging
- Intelligent Management, local & remote monitoring

Model	SEL-6KTH-150DE	SEL-8KTH-200DE	SEL-10KTH-250TE	SEL-12KTH-300TE	SEL-15KTH-350TE	SEL-20KTH-380TE
Effciency						
Max. Effciency	97.60%					
Eur. Effciency	97.00%					
Input (PV)						
Max. PV Access Power	40,000 W					
Max. PV Usable Power	20,000 W	20,000 W	30,000 W	30,000 W	30,000 W	30,000 W
Max. PV Input Voltage	1000 V					
Start-up Voltage	120 V					
MPPT Operating Voltage Range	160 V-980 V					
Max. Input Current per MPPT	20 A / 20 A	20 A / 20 A	20 A / 20 A / 20 A	20 A / 20 A / 20 A	20 A / 20 A / 20 A	20 A / 20 A / 20 A
Max. Short Circuit Current per MPPT	30 A / 30 A	30 A / 30 A	30 A / 30 A / 30 A	30 A / 30 A / 30 A	30 A / 30 A / 30 A	30 A / 30 A / 30 A
Nos. of MPPT	2	2	3	3	3	3
String per MPPT	1/1	1/1	1/1/1	1/1/1	1/1/1	1/1/1
Input/Output (BAT)						
Battery Type	Lithium-ion/Lead-acid					
No. of Battery Inputs	2*					
Battery Rated Voltage	48 V					
Battery Voltage Range	40 V-60 V					
Max. Charge/Discharge Current	380 A / 150 A	380 A / 200 A	380 A / 250 A	380 A / 300 A	380 A / 350 A	380 A / 380 A
Max. Charge/Discharge Power	20,000 W / 7,200 W	20,000 W / 9,600 W	20,000 W / 12,000 W	20,000 W / 14,500 W	20,000 W / 18,000 W	20,000 W / 20,000 W
Input/Output (Grid)						
Nominal AC Output Power	6,000 W	8,000 W	10,000 W	12,000 W	15,000 W	20,000 W
Max. AC Output Apparent Power	6,600 VA	8,800 VA	11,000 VA	13,200 VA	16,500 VA	22,000 VA
Nominal AC Output Current	3*9.1A/3*8.7A/3*8.3A	3*12.1A/3*11.6A/3*11.1A	3*15.2A/3*14.5A/3*13.9A	3*18.2A/3*17.4A/3*16.7A	3*22.7A/3*21.7A/3*20.8A	3*30.3A/3*29A/3*27.8A
Max. AC Output Current	3*10 A	3*13.3 A	3*16.7 A	3*20 A	3*25 A	3*33.3 A
Max. Single Phase Power	3,200 W	4,267 W	5,333 W	6,400 W	8,000 W	8,500 W
Max. Continuous AC Passthrough (grid to load)	45 A					
Nominal Grid Voltage	220V/380V; 230V/400V, 240V/415V 3W+N+PE					
Nominal Grid Frequency	50 Hz / 60 Hz					
Power Factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)					
THDi	<3% @rated power					
Output (Backup)						
Nominal AC Output Power	6,000W	8,000W	10,000W	12,000W	15,000W	20,000W
Max. AC Output Apparent Power	6,600VA	8,800VA	11,000VA	13,200VA	16,500VA	22,000VA
Nominal AC Output Current	3*9.1A/3*8.7A/3*8.3A	3*12.1A/3*11.6A/3*11.1A	3*15.2A/3*14.5A/3*13.9A	3*18.2A/3*17.4A/3*16.7A	3*22.7A/3*21.7A/3*20.8A	3*30.3A/3*29A/3*27.8A
Max. AC Output Current	3*10 A	3*13.3 A	3*16.7 A	3*20 A	3*25 A	3*33.3 A
Peak Output Apparent Power	200%, 10 s	200%, 10 s	200%, 10 s	200%, 10 s	200%, 10 s	150%, 10 s
Nominal Grid Voltage	220V/380V; 230V/400V, 240V/415V 3W+N+PE					
Nominal Grid Frequency	50 Hz/60 Hz					
Transfer Time	<10ms (Typical)					
THDV	<3% @100% R Load					
Input (Generator)						
Max. Input Power	30,000 W					
Protection						
Protection Category	Class I					
DC Switch	Yes					
Anti-islanding Protection	Yes					
AC Overcurrent Protection	Yes					
DC Reverse Protection	Yes					
Overvoltage Protection	Yes					
Surge Arrester	DC Type II, AC Type II					
Insulation Resistance Detection	Yes					
Leakage Current Protection	Yes					
Built-in Battery Breaker	400A, Optional					
AFCI 2.0/RSD	Optional					
General						
Max. Operating Altitude	4,000m (>2000m derating)					
Ingress Protection Degree	IP65					
Operating Temperature Range	-25 °C - 60 °C (>45 °C derating)					
Relative Humidity	0-100%					
Cooling Method	Smart Cooling					
Mounting	Wall bracket					
Dimensions (W*H*D)	460x742x266 mm					
Weight	50 Kg					
HMI & COM						
Display	LED+LCD					
Communication Interface	RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI, USB (for Wi-Fi/LAN,Optional)					
Certification	IEC/EN 62109-1/-2					
Safety						
EMC	IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 62920					
Grid	IEC 61727/62116, IEC 60068, IEC 61683, NRS 097-2-1, EN 50549-1/10					
Warranty	5 Years/10 Years (optional)					

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.
* If only one set of terminals is used, the max battery charge/discharge will be limited to 200 A
※ Information is subject to change without notice.
If there is any change in product size and parameters, please refer to the latest information without prior notice.



IT Series

Three Phase | 2 MPPTs Hybrid Inverter

SSL-8K-24K-P3EU inverters support
SES AI SoX™ EdgeBox communication (CAN/RS485/LAN/Wi-Fi)
Seamless connection for AI monitoring, VPP control, and OTA updates.

Features

Extreme Climate Adaptability
Full-load operation, 45 °C without derating

High Surge & Unbalanced Output
2× load surge for 10 s, 150% three-phase unbalanced output

High Battery Compatibility
Max. 415 A charge/discharge, supports three battery inputs

Flexible System Expansion
Up to 8 units parallel, supports AC coupling for retrofit

Wide Grid Adaptability
154 V–280 V per phase input, 50/60 Hz autoadaptation, built-in SPD

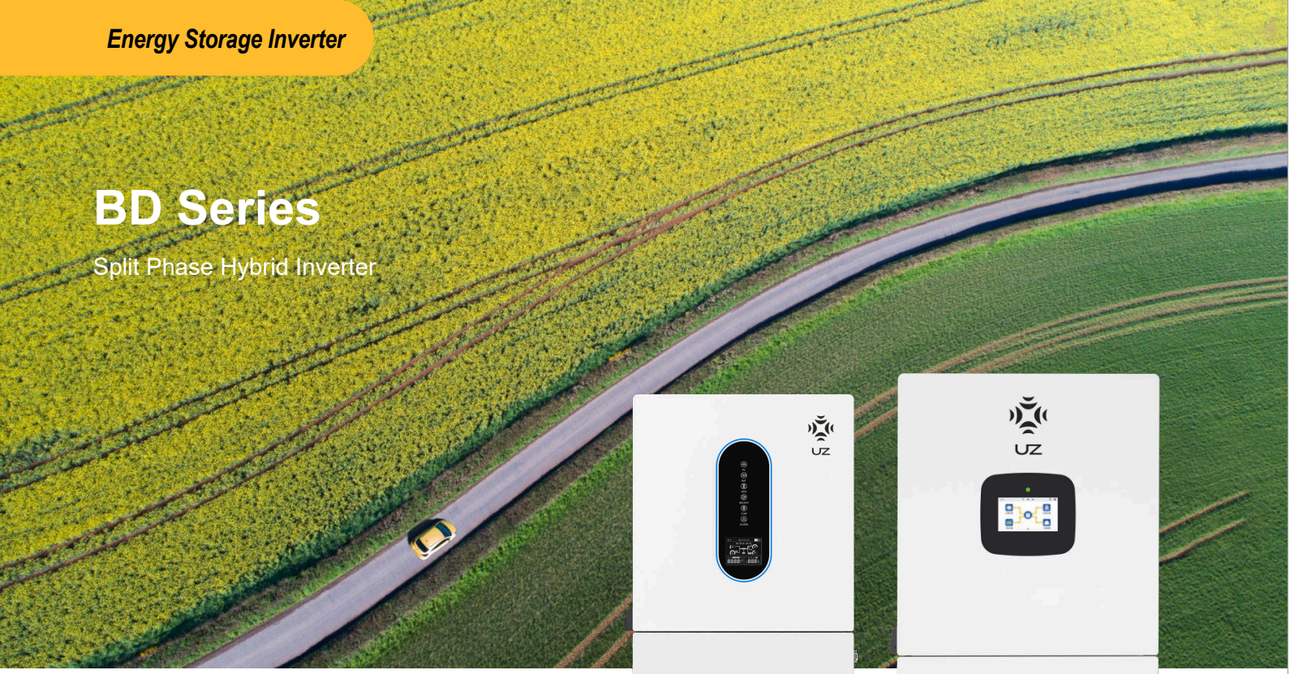
SiC + Full Aluminum + IP66
High efficiency, lightweight, IP66 protection

Model	SSL-8K-P3EU	SSL-10K-P3EU	SSL-12K-P3EU	SSL-15K-P3EU	SSL-18K-P3EU	SSL-20K-P3EU	SSL-24K-P3EU
INVERTER INPUT /OUTPUT (GRID)							
Rated Power (kW)	8/8	10/10	12/12	15/15	18/18	20/20	24/24
Rated Voltage (V a.c.)	380/400, 3W+N+PE						
Rated Frequency (Hz)	50/60						
Power Factor Range	0.8 leading ~ 0.8 lagging						
Switch Time (ms)	<20						
Current (Maximum/Continuous) (A a.c.)	24/12	29/15	35/17	43/22	52/26	58/29	60/35
Max Output Overcurrent Protection	400 Va.c./100 Aa.c.						
BATTERY							
Battery Type	Lithium / Lead-acid						
Battery Voltage Range (V d.c.)	40 ~60						
Rated Battery Voltage (V d.c.)	51.2						
Max Charge Current (A d.c.)	180	220	250	315	375	390	415
Max Discharge Current (A d.c.)	180	220	250	315	375	415	415
PV INPUT							
No. of MPPT Trackers / Strings	2/2+2						
Max. PV Array Power (kW)	16	20	24	30	36	40	48
Max DC Voltage (V d.c.)	1000						
MPPT Voltage Range (V d.c.)	150 - 850						
Start-up Voltage (V d.c.)	180						
Max. Input Current (A d.c.)	4*20						
Isc PV (Absolute Maximum) (A d.c.)	4*30						
AC OUTPUT (EPS)							
EPS Rated Output Voltage (V a.c.)	380/400, 3W+N+PE						
EPS Rated Output Frequency (Hz)	50/60						
EPS Rated Output Active Power (kW)	8	10	12	15	18	20	24
EPS Rated Output Apparent Power (kVA)	8	10	12	15	18	20	24
EPS Rated Output Current (A a.c.)	12	15	17	22	26	29	35
Overload Capacity (Off Grid)	110% 600s/120% 300s/150% 60s/200% 10s						
EFFICIENCY							
MPPT Efficiency	99.90%						
Euro-efficiency	97.00%			97.20%			
Max. Efficiency	97.50%			98.00%			
PROTECTION & FEATURE							
Insulation Monitoring	Yes						
Residual Current Monitoring	Yes						
Parallel Function	Yes						
Protection Degree	IP66						
Certifications	EN IEC 62109-1/2, ENIEC 62477-1, EN IEC 61000-6-1/3, EN 50549-1&-10, NRS 097-2-1, Poland etc.						
Other Protection	Output over voltage, Output over current, Short circuit, Surge, Temperature, Anti-Islanding						
GENERAL PARAMETER							
Storage Temperature	-25°C~ +60°C						
Operating Temperature	-25°C - +60°C (Linearly derating to 60% when exceeding +45°C ~ +60°C)						
Humidity	0-100% (non-condensing)						
Altitude (m)	4000 (>2000 Derating)						
Noise (dB)	<65						
Machine Dimension(W*H*D) (mm)	448*660*265						
Machine Weight/ N.W. (kg)	40			45			
DISPLAY & COMMUNICATION							
Display	LCD + APP						
Interface	RS485 / Wi-Fi / CAN / DRM (Optional: Bluetooth / LAN / Meter)						

- The AC voltage and frequency range can differ according to the grid standards of each country.
- Please note that all specifications are subject to change without prior notice.

BD Series

Split Phase Hybrid Inverter



All JJ / IT / BD series inverters support **SES AI SoX™ EdgeBox communication (CAN/RS485/LAN/Wi-Fi)**
Seamless connection for AI monitoring, VPP control, and OTA updates.

Features

Excellent Performance

· 3 MPPTs: Integrated 3 MPPTs for multiple array orientations
· Max battery charge/discharge current of 210 A
· 200 A Bypass current for whole-home backup

High Flexibility

· Support 40-64 V Lithium or Lead-acid battery
· Max. 9 units parallel for on-grid and off-grid operation
· Support smart load/generator/AC Coupling

Safety & Reliability

· IP65: Indoor or outdoor installation
· Built-in battery and Load breaker for safety and reliability
· Integrated arc fault circuit interrupter (AFCI 2.0) and rapid shutdown

Intelligent Maintenance

· Intelligent Management, local & remote monitoring
· 3 application modes, mixed with battery scheduling

Model	SEL-5KAH-130DU	SEL-6KAH-130DU	SEL-7K6AH-180TU	SEL-10KAH-210TU	SEL-11K4AH-210TU-P	SEL-11K4AH-210TU-P-LCD
Efficiency						
Max. Efficiency (PV to AC)	98.0%					/
Max. Efficiency (BAT to AC)	94.5%					/
CEC. Efficiency	96.5%					96.5%
Input (PV)						
Max. PV Input Power	7,500 W	9,000 W	12,000 W	15,000 W	15,000 W	15,000 W
Max. PV Voltage	600 V					600 V
Start-up Voltage	90 V					90 V
MPPT Operating Voltage Range	70 V - 540 V					70 V - 540 V
Max. Input Current per MPPT	30 A/22 A		30 A/22 A/22 A			30 A/22 A/22 A
Max Short Current Per MPPT	40 A/30 A		40 A/30 A/30 A			40 A/30 A/30 A
String Per MPPT	2/2		2/2/2			2/2/2
Nos. of MPPT	2		3			3
Input / Output (BAT)						
Battery Type	Lithium-ion/Lead-acid					Lithium-ion/Lead-acid
Nominal Battery Voltage	48 V					51.2 V
Battery Voltage Range	40 V - 64 V					40 V - 64 V
Max. Charge/Discharge Current	210 A/130 A	210 A/130 A	210 A/180 A	210 A/210 A	210 A/210 A	210 A/210 A
Max. Charge/Discharge Power	10,000 W/5,000 W	10,000 W/6,000 W	10,000 W/7,600 W	10,000 W/10,000 W	10,000W/10,000W	10,000W/10,000W
Output (Grid)						
Nominal AC Output Power	5,000 W	6,000 W	7,600 W	10,000 W	10,000 W	11,400 W
Max. AC Output Apparent Power	5,500 VA	6,600 VA	7,600 VA	11,000 VA	11,400 VA	11,400 VA
Max. AC Output Power (PF=1)	5,500 W	6,600 W	7,600 W	11,000 W	11,400 W	/
Nominal AC Output Current	20.9 A	25 A	31.7 A	41.7 A	41.7 A	/
Max. AC Output Current	22.9 A	27.5 A	34.8 A	45.8 A	47.5 A	47.5 A
Nominal Grid Voltage	120/240V (Split phase) , 120/208V (2/3 phase)					
Nominal Grid Frequency	50 Hz /60 Hz					
Grid Frequency Range	45 Hz - 55 Hz/55 Hz - 65 Hz (Adjustable)					
Power Factor	> 0.99 @ Rated power (Adjustable 0.8 LG – 0.8 LD)					
THDi	< 3% @ Rated Power					
Output (Backup)						
Nominal Output Power	5,000 W	6,000 W	7,600 W	10,000 W	10,000 W	11,400 W
Max. AC Output Power (PF=1)	5,500 W	6,600 W	7,600 W	11,000 W	11,400 W	11,400 W
Nominal Output Current	20.9 A	25 A	31.7A	41.7 A	41.7 A	47.5 A
Peak Output Apparent Power(1s)	10,000 VA	12,000 VA	15,200VA	20,000 VA	20,000 VA	150%, 10 s
Nominal Output Voltage	120/240 V (Split phase) / 120/208 V (2/3 phase)					
Nominal Output Frequency	50 Hz/60 Hz					
Transfer Time	< 10 ms (Typical)					
THDV	< 3% @ 100% R Load					
Protection						
Protection Category	Class I					
DC Switch	Yes					
Anti-islanding Protection	Yes					
AC Overcurrent Protection	Yes					
DC/AC Overvoltage Protection	DC Type II, AC Type IV					
AC Short Circuit Protection	Yes					
DC Reverse Protection	Yes					
Surge Arrester	DC Type II, AC Type II					
Insulation Resistance Detection	Yes					
Leakage Current Protection	Yes					
AFCI/RSD Monitoring	Yes					
General						
Max. Operating Altitude	2,000m					4,000 m (> 2000 m derating)
Ingress Protection Degree	NEMA 3R					NEMA 3R
Operating Temperature Range	-25 °C - 60 °C (>45 °C derating)					-25 °C - 60 °C (>45 °C derating)
Relative Humidity	0 - 100%					0 - 100%
Cooling Method	Fan Cooling					Smart Cooling
Mounting	Wall bracket					Wall bracket
Dimensions (W*H*D)	16.5*31.5*9.4 inch (420*800*240 mm)					17.6*35.5*10.6 in (448*901*270 mm)
Weight	44 kg / 97 lb					47 Kg / 103.6 lb
HMI & COM						
Display	Wireless & APP + LED, LCD (optional)					
Communication Interface	CAN (for BMS), RS485 (for meter), RS485, CAN (for parallel), Optional: Wi-Fi/LAN					
Certification						
Safety	UL 1741 / CSA C22.2 / UL 1699B					
EMC	FCC Part 15 Class B					
Grid Code	UL1741SA, UL1741SB, UL 1741 PCS CRD, IEEE1547, HECO SRD 2.0, CSIP					
Warranty	5 Years/10 Years (Optional)					

Remarks: • The range of output voltage and frequency may vary depending on different grid codes.
※ Information is subject to change without notice.
If there are any changes to product dimensions or parameters, please refer to the latest information.

BATTERY ACCESSORIES

Wall-Mounting Kit (C300A)

5 kWh



Stacking Kit (H100)

20-40 kWh



Quick Installation Rack (R100A)

5-25 kWh



Quick Installation Rack (F13L)

65 kWh

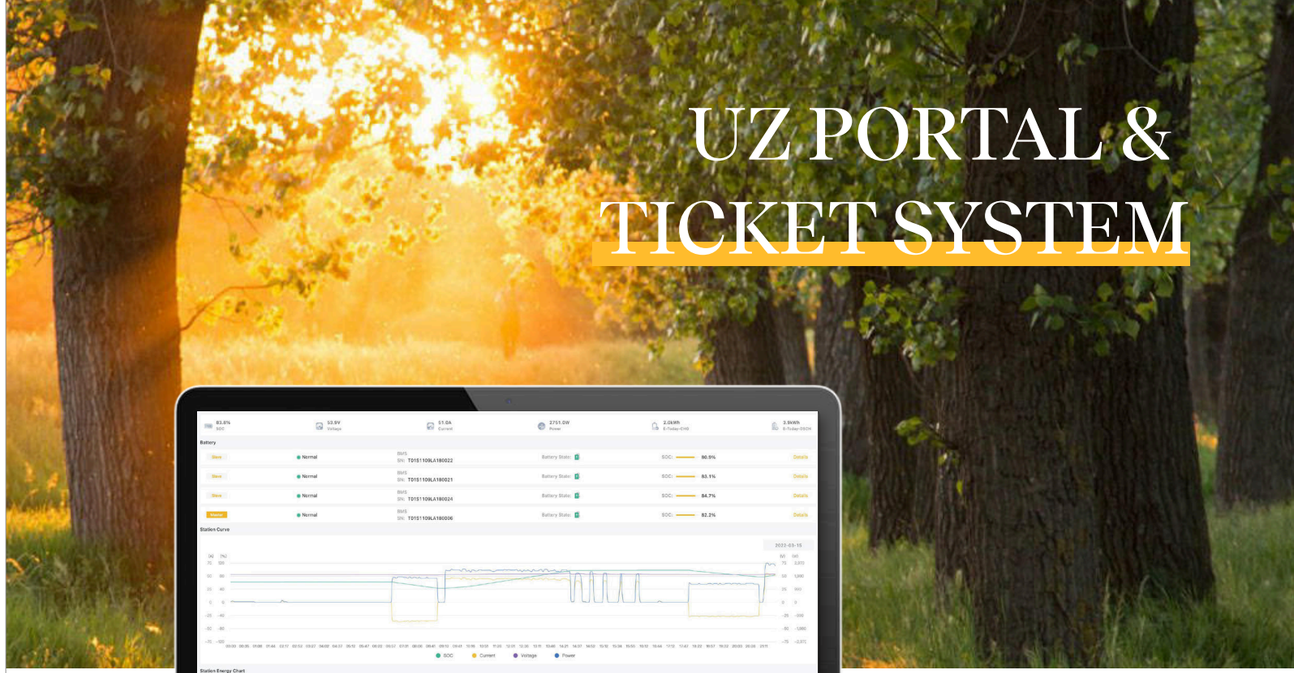


Wi-Fi Stick (T300C)

Plug and play for seamless connectivity

Stable connection · Easy setup · Wide compatibility





UZ PORTAL & TICKET SYSTEM

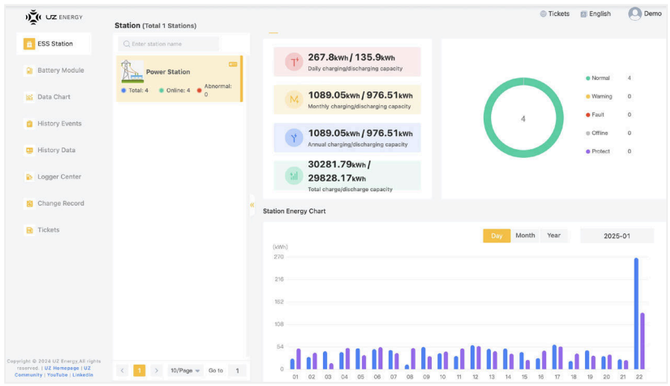
Power in Your Hand
Log into the UZ Energy Portal Today

UZ PORTAL + SES AI SoX™ EDGEBOX

- AI-powered battery safety detection
- Real-time SoC / SoH / SoS / SoD data display
- VPP operation & revenue monitoring dashboard
- AI auto-diagnosis & smart work order system
- Remote OTA updates for SoX AI models

A work order system brings the following benefits to our customers:

- Improve work efficiency
- Enhance service quality
- Strengthen collaboration capabilities
- Simplify tracking and management
- Enable data statistics and analysis



GLOBAL PARTNERS



All partner inverters are fully compatible with
SES AI SoX™ EdgeBox & VPP functions

Officially Listed by Inverter Manufacturers

APsystems ALTENERGY POWER
Sol-Ark™ LIMITLESS POWER
Senergy
hoymiles
MEGAREVO
SRNE
SOSEN
LUXPOWER TEK
SMA
solis inverters
SUN SYNK®
Deye 德業®
STUDER
GOODWE YOUR SOLAR ENGINE
OpalEnergy
AISWEI
steca A KATEK Brand
EG4®
HQSOL

UZ In-House Tested

Life Is On Schneider Electric
Voltronic Power Advancing Power
victron energy BLUE POWER
SOROTEC® Power Solutions Expert
phocos
IMEON ENERGY Your Power, Your Rules
SOFAR SOLAR
powering tomorrow Growatt
MUST®
KELONG 科华技术

New compatibilities are continually being added.

COMPANY CULTURE & BRAND STORY

Company Culture

Vision

Strive to be a leading global ESS brand, make an excellent contribution to green energy solutions for mankind, and provide a platform for all employees to pursue spiritual and material well-being!
Powered by SES AI SoX™ EdgeBox for intelligent energy storage.

Mission

Vitalizing Smart Life, Powering Your Dream.

Accelerate the world’s transition to sustainable energy with AI + energy storage.

Core Value

Integrity Innovation Inclusion Grit

Brand Story

The solar revolution has begun, and it's happening right in your home with the newfound freedom to produce, store, and enjoy your own clean electricity. With our premium home energy storage systems, all you need to keep your everyday life running is a bit of sunshine.

Here at UZ, we believe that everyone in the world deserves the opportunity to run on clean, sustainable energy. Premium solutions that store clean power during the day, so you can use it whenever you need it.

We all have a choice. But doing good should always be the easy decision. So forget about bulky battery boxes, complicated installations, and difficult software. Instead, say "Welcome home" to integrated solutions made with the safest, high-quality components available. We work with the best in the business to design everything that complements you and keeps you updated with useful insights into your personal solar power system.

So what are we waiting for? The sun is already up!