

THE LEADING SOLAR
ENERGY STORAGE SOLUTION PROVIDER

Accelerated
ROI

12%+
of Boost Profit

AI
XSchedule
XCopilot

AI
XBMS
XCore

0ms
Load Disruption

Grid Fails

Trusted Safety

Pack level safety design
8-level electrical safety
5-level Fire Safety Design

Excellent Performance

RTE $\geq$ 90%
Up to 8h backup
SOC/SOH estimation accuracy $\pm$ 3%

Effortless O&M

XCopilot
AI Instant FAQs Answers
Interactive Visual Answers



COMMERCIAL & INDUSTRIAL
ENERGY STORAGE SOLUTIONS

Intelligent Energy Scheduling and Management

Cabinet Capacity Expansion

Off-grid & Micro-grid Solution

AC-Coupling & Zero Injection Solution

Generator Solution

Dynamic Tariffs Supported

ALL-IN-ONE C&I ESS SUCCESS STORIES

Netherlands

ESS-TRENE 261kWh | 3MWh

China

ESS-TRENE 261kWh | 522kWh

Spain

ESS-AELIO | 200kWh

SOLAX POWER

Commercial & Industrial
ALL-IN-ONE
ENERGY STORAGE
SOLUTIONS

ms
Load Disruption

Web: www.solaxpower.com E-mail: info@solaxpower.com

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THE LEADING
SOLAR ENERGY STORAGE SOLUTION PROVIDER

Established in 2012, Solax Power is a publicly listed global leader specializing in solar energy storage and smart energy technologies. Offering a comprehensive product portfolio including inverters, batteries, energy storage systems, EV chargers, heat pumps, and integrated smart energy solutions, Solax serves diverse application scenarios across residential, commercial and industrial, and utility-scale projects. With a strong commitment to innovation, driven by an R&D team representing 30% of its workforce, Solax continues to deliver market-leading solutions worldwide. Dedicated to sustainability and backed by extensive global partnerships, Solax helps customers in over 130 countries achieve their energy transition goals and significantly reduce carbon emissions.

TIER 1
BloombergNEF
ENERGY STORAGE
Listed in 2025 Q2

AA+
EUPD Research
Brand Leadership & Sustainability Rating:
AA+ for Storage & Inverters

2024
Publicly Traded

3,000+
Employees

1,000+
R&D Personnel

130+
Markets

3,000+
Global Certifications

500+
Patents

Hybrid Solution Optimize CAPEX and reduce O&M complexity

ESS-AELIO (Air cooling)
50/60kW
100/200kWh

ESS-AELIO (Air cooling)
50/60kW
200/400kWh

Ac Switching Cabinet
NEXUS ZERO

AC-coupling Solution Empowering retrofits with intelligent and reliable ESS

ESS-TRENE (Liquid cooling)
125kW
261kWh

ESS-TRENE (Liquid cooling)
125kW
261kWh

ESS-TRENE (Liquid cooling)
250/500kW
1MWh



ESS-AELIO

	AELIO-P50B100	AELIO-P50B200	AELIO-P60B100	AELIO-P60B200
DC SIDE				
Max. recommended PV array power	100 kWp		120 kWp	
Max. PV input voltage ^①	1000 V			
Start-up voltage	180 V			
Rated PV input voltage	650 V			
MPPT voltage range ^②	160 ~ 950 V			
No. of MPP trackers / strings per MPP tracker	5 / 2		6 / 2	
Max. input current per MPPT	40 A			
Isc PV array short circuit current per MPPT ^③	50 A			
AC SIDE				
Rated output power	50.0 kW		60.0 kW	
Rated output current	75.8 A @ 220 V 72.5 A @ 230 V		91.0 A @ 220 V 87.0 A @ 230 V	
Max. apparent power	55.0 kVA		66.0 kVA	
Max. output continuous current	83.4 A @ 220 V 79.8 A @ 230 V		100.0 A @ 220 V 95.7 A @ 230 V	
Nominal AC voltage	3 / N / PE, 220 / 380 V 3 / N / PE, 230 / 400 V			
Rated AC frequency	50 Hz / 60 Hz			
Adjustable power factor range	~1 (0.8 leading ~ 0.8 lagging)			
THDi (rated power)	< 3%			
BATTERY SIDE				
Battery type	LFP / 280 Ah			
Rated battery capacity	100 kWh	200 kWh	100 kWh	200 kWh
Rated battery voltage	358.4 V	716.8 V	358.4 V	716.8 V
Battery voltage range	296.8 ~ 408.8 V	596.3 ~ 817.6 V	296.8 ~ 408.8 V	596.3 ~ 817.6 V
Rated charge / discharge current	140 A			
GENERAL				
Dimensions (with inverter) (W × H × D)	1310 × 2300 × 1140 mm	2070 × 2420 × 1200 mm	1310 × 2300 × 1140 mm	2070 × 2420 × 1200 mm
Dimensions (without inverter) (W × H × D)	1020 × 2300 × 1140 mm	1680 × 2420 × 1200 mm	1020 × 2300 × 1140 mm	1680 × 2420 × 1200 mm
Weight (with inverter)	1600 kg	2800 kg	1600 kg	2800 kg
Weight (without inverter)	1500 kg	2700 kg	1500 kg	2700 kg
Operation temperature range	-30 ~ 55°C	-30 ~ 50°C	-30 ~ 55°C	-30 ~ 50°C
Relative humidity	0 ~ 100% RH (non-condensing)			
Max. operation altitude	3000 m			
Cooling concept	Smart air cooling			
Ingress protection	Cabinet: IP55; Inverter: IP66			
Fire protection	Aerosol / Water			
Topology	Non-isolated			
Certifications	IEC62619, IEC63056:2000, IEC61000, IEC62477-1, UN38.3, IEC 60730, IEC 60529, IEC 60068, VDE 2510-50, IEC62040, UL9540A			

①The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter

②Input voltage exceeding the MPPT voltage range may trigger inverter protection

③Isc current for single PV input string is 35A

*V1.4 Information may be subject to modify without notice. 650.00074.00



ESS-TRENE

TRENE-P124B261L-E		TRENE-P125B261L-E
AC SIDE (ON-GRID)		
Rated AC power	124.9 kW	125 kW
Max. output apparent power	124.9 kVA	125 kVA
Rated AC current	189.3 A @220 V 181.1 A @230 V	189.4 A @220 V 181.2 A @230 V
Max. output continuous current	189.3 A@220 V 181.1 A@230 V	189.4 A@220 V 181.2 A@230 V
Rated AC voltage	3 / N / PE, 220 / 380 V 3 / N / PE, 230 / 400 V	
AC voltage range	340 ~ 440 V	
Rated AC frequency	50 Hz / 60 Hz	
Adjustable power factor range	-1 ~ +1	
THDi (rated power)	< 3%	
DC component	< 0.5% (rated power)	
AC SIDE (OFF-GRID)		
Rated AC output voltage	3 / N / PE, 220 / 380 V 3 / N / PE, 230 / 400 V	
Rated AC frequency	50 Hz / 60 Hz	
THDv (linear load)	< 3% (linear load)	
Unbalance load capacity (off-grid)	100%	
Overloading capacity	110%, long term; 120%, 1min	
Max. AC output continuous current	208.2 A @220 V 199.2 A @230 V	208.4 A @220 V 199.3 A @230 V
DC SIDE		
Battery type	LFP / 314 Ah	
Nominal energy	261 kWh	
Rated battery voltage	832 V	
Battery voltage range	650 ~ 936 V	
SYSTEM PARAMETE		
Dimensions (WxHxD)	1350 × 2355 × 1350 mm	
Weight	2810 kg	
Operating temperature range	-30 ~ 55°C (>45°C derating)	
Relative humidity	0 ~ 100% RH	
Max. operation altitude	3000 m	
Cooling concept	Liquid cooling	
Ingress protection	IP55	
Topology	Non-isolated	
Standards	IEC 62619, IEC 63056, IEC 62040, IEC 62477, IEC 61000, IEC 62933, UN 38.3, UL9540A	
Communication interface	Ethernet	
Communication protocol	Modbus TCP	
Anti-corrosion degree	C4 (C5 optional)	
Configuration of safety	Gas fire suppression + Water-based fire suppression + Ventilation + Explosion-proof plates	
Max. parallel quantity (off-grid)	10	

*V1.2. Information may be subject to modify without notice. 650.00098.00



ESS-TRENE

TRE261-2D		TRE261-2A
AC INPUT & OUTPUT (ON-GRID)		
Rated output power	99.9 kW	125 kW
Max. output apparent power	99.9 kVA	125 kVA
Rated output current	151.4 a.c. A@220 a.c. V 144.8 a.c. A@230 a.c. V	189.4 a.c. A@220 a.c. V 181.2 a.c. A@230 a.c. V
Max. output continuous current	151.4 a.c. A@220 a.c. V 144.8 a.c. A@230 a.c. V	189.4 a.c. A@220 a.c. V 181.2 a.c. A@230 a.c. V
Rated AC voltage	3 / N / PE, 220 / 380 a.c. V 3 / N / PE, 230 / 400 a.c. V	
AC voltage range	340 ~ 440 a.c. V	
Rated AC frequency	50 Hz / 60 Hz	
Adjustable power factor range	-1 ~ +1	
THDi (rated power)	< 3% (rated power)	
DC component	< 0.5% (rated power)	
AC INPUT & OUTPUT (OFF-GRID)		
Rated AC output voltage	3W / N / PE, 220 / 380 a.c. V 3W / N / PE, 230 / 400 a.c. V	
Rated AC frequency	50 Hz / 60 Hz	
THDv (linear load)	< 3% (linear load)	
Unbalance load capacity (off-grid)	100%	
Max. output continuous current	166.5 a.c. A@220 a.c. V 159.3 a.c. A@230 a.c. V	208.4 a.c. A@220 a.c. V 199.3 a.c. A@230 a.c. V
DC SIDE		
Battery type	LFP / 314 Ah	
Nominal energy	261 kWh	
Nominal voltage	832 d.c. V	
Operating voltage range	650 ~ 936 d.c. V	
GENERAL INFORMATION		
Dimensions (W×H×D)	1090 × 2360 × 1350 mm	
Weight	2450 kg	
Operating temperature range	-30 ~ +55°C (> +45°C derating)	
Relative humidity	0 ~ 100% RH (non-condensing)	
Max. operation altitude	3000 m	
Cooling concept	Liquid cooling	
Ingress protection	IP55	
Topology	Non-isolated	
Certifications	IEC 62619, IEC 61000, UN 38.3	
Communication interface	Ethernet	
Communication protocol	Modbus TCP	
Anti-corrosion degree	C5-L (C5-M optional)	
Fire suppression system	Gas fire suppression + Water-based fire suppression + Ventilation	
Max. parallel quantity	10	

*V1.2.1. Information may be subject to modify without notice. 650.00135.00



ESS-TRENE

TRENE - P50B1044L-2H TRENE - P49B1044L-2H TRENE - P39B1044L-2.5H TRENE - P31B1044L-3H TRENE - P26B1044L-4H TRENE - P25B1044L-4H TRENE - P24B1044L-4H							
AC SIDE (ON-GRID)							
Rated AC power	500 kW	499.6 kW	399.6 kW	319.6 kW	260 kW	250 kW	249 kW
Max. output apparent power	500 kVA	499.6 kVA	399.6 kVA	319.6 kVA	260 kVA	250 kVA	249 kVA
Rated AC current	724.8 A@230 V 757.6 A@220 V	724.4 A@230 V 757.2 A@220 V	579.2 A@230 V 605.6 A@220 V	463.2 A@230 V 484.4 A@220 V	377.2 A@230 V 394 A@220 V	362.4 A@230 V 378.8 A@220 V	361.2 A@230 V 377.6 A@220 V
Max. output continuous current	724.8 A@230 V 757.6 A@220 V	724.4 A@230 V 757.2 A@220 V	579.2 A@230 V 605.6 A@220 V	463.2 A@230 V 484.4 A@220 V	377.2 A@230 V 394 A@220 V	362.4 A@230 V 378.8 A@220 V	361.2 A@230 V 377.6 A@220 V
Rated AC voltage	3 / N / PE, 230 / 400 V 3 / N / PE, 220 / 380 V						
AC voltage range	340 ~ 440 V						
Rated AC frequency	50 Hz / 60 Hz						
Adjustable power factor range	-1 ~ +1						
THDI (rated power)	< 3% (Rated power)						
DC Component	< 0.5% (Rated power)						
AC SIDE (OFF-GRID)							
Rated AC output voltage	3 / N / PE, 230 / 400 V 3 / N / PE, 220 / 380 V						
Rated AC frequency	50 Hz / 60 Hz						
THDv (linear load)	< 3% (Linear load)						
Unbalance load capacity (off-grid)	100%						
Overloading capability	110%, long term; 120%, 1min						
Max. AC output continuous current	797.2 A@230 V 833.6 A@220 V	796.8 A@230 V 832.8 A@220 V	637.2 A@230 V 666 A@220 V	509.6 A@230 V 532.8 A@220 V	414.8 A@230 V 433.6 A@220 V	398.8 A@230 V 416.8 A@220 V	397.2 A@230 V 415.2 A@220 V
DC SIDE							
Battery type	LFP / 314 Ah						
Battery capacity	1044 kWh						
Rated battery voltage	832 V						
Battery voltage range	689 - 936 V						
SYSTEM PARAMETER							
Dimensions (WxHxD)	2991 x 2896 x 2438 mm						
Weight	13 t						
Operating temperature range	-30 ~ 55°C (> 45°C derating)						
Relative humidity	0 ~ 100% RH						
Max. operating altitude	3000 m						
Cooling concept	Liquid cooling						
Ingress protection	IP55						
Topology	Non-isolated						
Standards	IEC 62619, IEC 63056, IEC 62040, IEC 62477, IEC 61000, IEC 62933, UN 38.3, UL9540A						
Communication interfaces	Ethernet						
Communication protocol	Modbus TCP						
Anti-corrosion degree	C5						
Configuration of safety	Gas fire suppression + Water-based fire suppression + Ventilation + (Optional Explosion-proof plates)						

*V1.0. Information may be subject to modify without notice. 650.00112.00



AC SWITCHING CABINET

Nexus Zero					
SYSTEM PARAMETERS					
Model	ZERO-125	ZERO-250	ZERO-500	ZERO-750	ZERO-1250
Rated AC voltage	3 / N / PE, 230 / 400 V 3 / N / PE, 220 / 380 V				
Rated AC frequency	50 Hz / 60 Hz				
Rated AC current@230V	181.2 A	362.3 A	724.6 A	1087 A	1811.6 A
Rated AC current@220V	189.4 A	378.8 A	757.6 A	1136 A	1893.9 A
Disruption time of backup switch ^①	0 ms				
Power limit (grid)	Yes				
Grid breaker	250 A	500 A	1000 A	1600 A	2500 A
AC out breaker	250 A	500 A	1000 A	1600 A	2500 A
Bypass breaker	250 A	500 A	1000 A	1600 A	2500 A
Ingress protection	IP55				
SPD	Type II				
Operating temperature	-30 to +55 °C				
Altitude	3000 m				
Dimension (W x H x D)	900 x 1600 x 800 mm	900 x 1600 x 800 mm	1200 x 2300 x 800 mm	1200 x 2300 x 800 mm	1900 x 2300 x 1200 mm
Weight (kg)	300 kg	330 kg	660 kg	730 kg	1500 kg
Rated short circuit current	10 kA	15 kA	30 kA	40 kA	60 kA
Certificates and approvals	EN/IEC61439-1, EN/IEC61439-2, EN/IEC61000				

① Test conditions: In the open-circuit state of the power grid, the total rated power of all Power Conversion Systems (PCS) is higher than the total power of the backup loads.