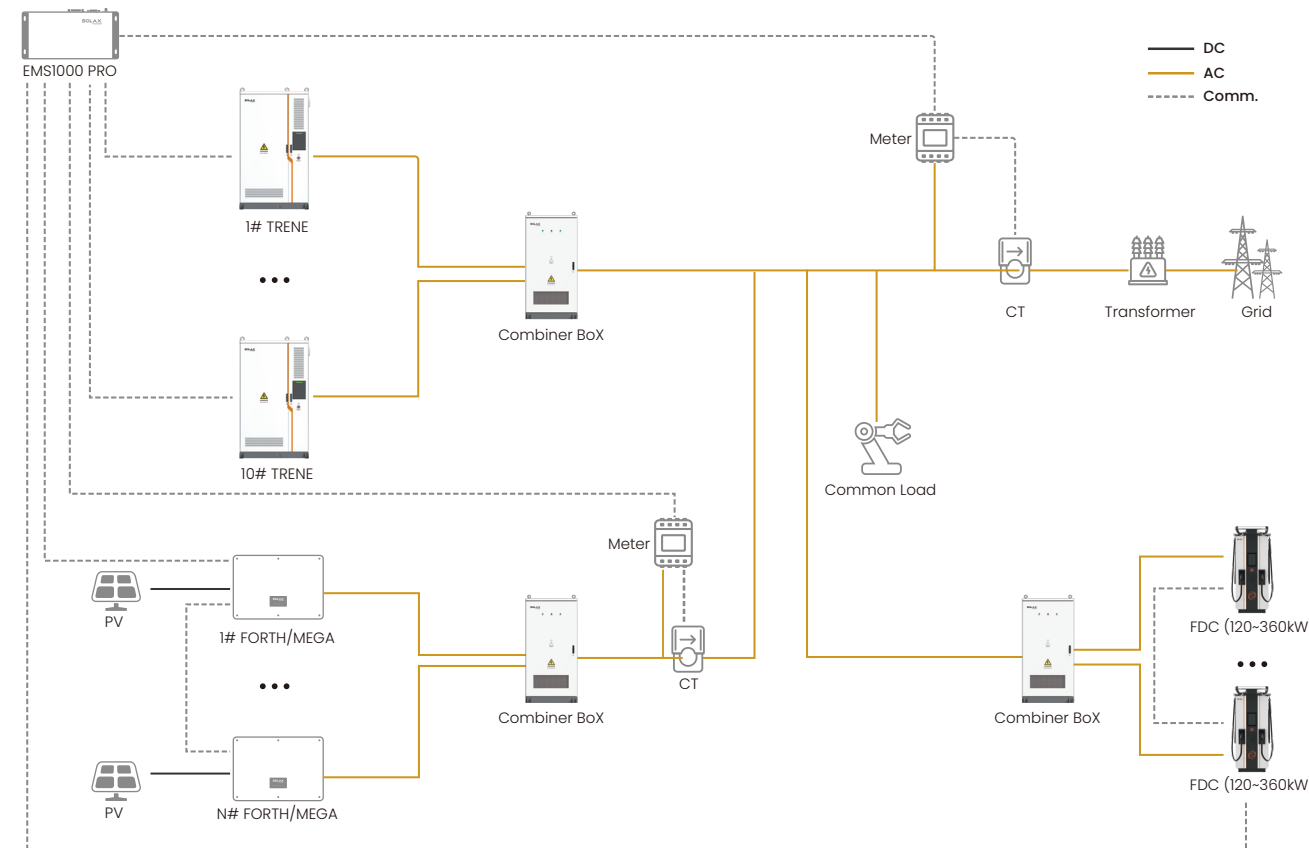


SolaX's PV-ESS-EV Integrated Solution

Smart control minimizes peak charging impact and adapts to user habits, enabling plug & play operation.
SolaX's solution reduces energy costs, smooths charging station load fluctuations, and boosts system efficiency.



Integration

- PV + BESS + FDC Charger
- EMS1000 Pro
- SolaX Cloud

Flexible

- Scalable up to 1.25 MW
- Capacity Max.2.61MWh
- Customized solutions

Intelligent

- Data Collection & Forecasting
- Revenue Optimization
- Open Interfaces
- Role-based Management




POWERING A GREEN FUTURE

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TRENE + DC CHARGER

125 kW /261 kWh 120 kW~360 kW

SolaX's PV-ESS-EV Integrated Solution

Product Features



High Performance

- Premium LFP battery with guaranteed quality
- High power density, compact design
- Scalable up to MWh
- Cell-level balancing and smart temperature control

Assured Safety

- 4 levels fire safety design secures minimal risk and loss
- Aerosol fire suppression for precise protection
- IP67 for battery, IP66 for inverter, IP55 for cabinet
- Advanced fault detection and response

Intelligent Design

- Advanced energy management system
- VPP ready with SolaXCloud (IEEE 2030.5, OpenADR)
- Supporting micro-grids and diverse scenarios
- Supporting remote monitoring and maintenance

Flexible Adaptability

- Supporting grid-connected and off-grid (with SolaX switching cabinet)
- Full-stack self-developed BMS, EMS, PCS & SolaXCloud
- One year of local historical data storage
- Optimised space utilisation

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	208.2 A @220 V 199.2 A @230 V		208.4 A @220 V 199.3 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		
Battery capacity	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		



High Efficiency

- Intelligently distribute charging power to meet the charging needs of different EVs.
- Support EMS intelligent dynamic power control, and form an integrated PV-ESS-EV Solution.

Assured Safety

- Safe and reliable, with multiple fault protection.
- Equipped with cable management system to enhance user experience.

Intelligent Design

- Support OCPP1.6J protocol to access third-party operation platform.
- Support multiple network communication (Ethernet / Wi-Fi / 4G).
- Integrated smart HMI: 12.1-inch high-contrast LCD.

Flexible Adaptability

- All-in-one design, easy and quick installation, compact and lightweight structure can be flexibly installed in various positions.
- The voltage range of 200-1000V is suitable for all current mainstream charging scenarios.

	FDC-120-EU	FDC-180-EU	FDC-240-EU	FDC-300-EU	FDC-360-EU
AC NOMINAL INPUT					
Earthing system	TN-S / TT				
Voltage	380 V ± 15 %				
Current	194 A	290 A	388 A	485 A	582 A
Frequency	45 Hz ~ 65 Hz				
DC NOMINAL OUTPUT					
Voltage	200 V ~ 1000 V				
Current	Max.250 A (350 A optional)				
Power	120 kW	180 kW	240 kW	300 kW	360 kW
BASIC ATTRIBUTES					
Charge connector	Dual (CCS2 + CCS2)				
Cable length	5 m*				
Enclosure	Galvanized steel				
Installation method	Floor mounted				
INTERFACE & COMMUNICATION					
HMI	12.1 inches touch screen with shell				
Language	English (standard) other languages available by firmware upgrade				
Authentication	RFID card / Password login				
DC meter	CE certified DC meter standard equipped (MID meter optional)				
Credit card reader	Optional				
Cable management system	YES				
Communication interface	Ethernet / 4G / Wi-Fi				
Protocol	OCPP 1.6 J				
ELECTRICAL PARAMETER					
Efficiency	≥ 95% @Nominal output power				
Power factor	≥ 0.99 (50% load above)				
THDi	< 5%				
Standby self-consumption	≤ 80 W				
Ripple factor	≤ ±5%				
SAFETY					
RCD	Type A				
Emergency stop	Yes				
Enclosure ratings	IP54				
Impact protection	IK10				
Electrical protection	Over current, Under voltage, Residual current, Surge protection, Leakage protection, Short circuit, Over temperature, etc				
EVSE-vehicle protocol	DIN SPEC 70121,ISO 15118				
Certifications	CE / CB				
Certifications standard	IEC61851 2017, IEC 62196-1,IEC 62196-3, etc				
OPERATION ENVIRONMENT					
Cooling method	Air-cooling				
Noise	≤ 65 dB (A) @ 1 m / 25 °C				
Operation temperature	-25 ~ 55 °C				
Working humidity	5 % ~ 95 % without condensation				
Working altitude	≤ 2000 m				
PACKAGE					
External package	Wood case				
Weight	320 kg	450 kg	480 kg	660 kg	690 kg
Dimensions (W × H × D)	720 × 2000 × 600 mm	890 × 2100 × 700 mm	890 × 2100 × 700 mm	1066 × 2108 × 832 mm	1066 × 2108 × 840 mm

*The cable length can be customized.