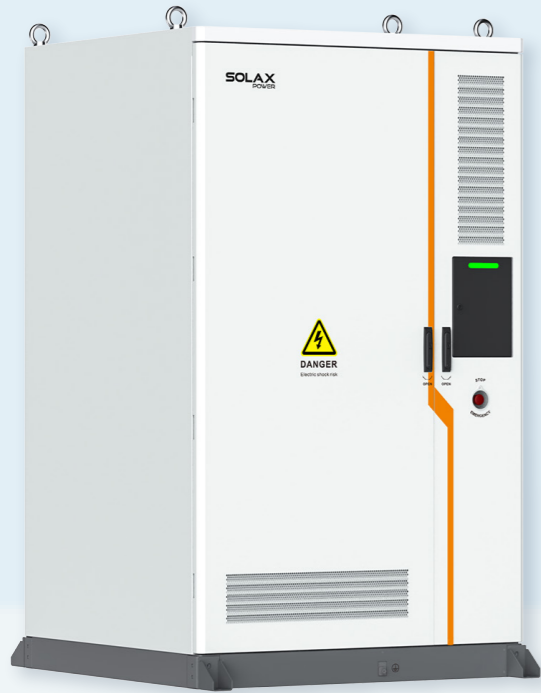


# AC-coupled ESS Liquid Cooling Cabinet



## ESS-TRENE (Liquid cooling)

125kW /261kWh



TRENE-P125B261L-E

AC INPUT & OUTPUT (ON-GRID)	
Rated AC power	125 kW
Rated AC current	181.2 A
Max. output apparent power	137.5 kVA
Max. output continuous current	208.3 A
Nominal AC voltage	400 V
Nominal AC frequency	50 Hz / 60 Hz
Adjustable Power Factor range	~ 1 (0.8 lagging to 0.8 leading)
THDi (Rated power)	< 3%
BATTERY	
Battery type	LFP 314Ah
Battery capacity	261 kWh
Rated battery voltage	832 V
Battery voltage range	650 ~ 936 V
Max. charge / discharge current	160 A
Cycle life①	≥ 8000
GENERAL	
Max. efficiency	98%
Dimension (WxDxH)	1350 x 1350 x 2355 mm
Weight	2810 kg
Operating ambient temperature range	-30 ~ 55°C
Relative humidity	0 ~ 95% RH
Max. operating altitude	3000 m
Cooling concept	Liquid cooling
Ingress protection	IP55
Fire protection	Aerosol (Optional:Novec1230) / Water
Topology	Non-isolated
Certificates and approvals	IEC62619, IEC63056, IEC61000, IEC62477-1, UN38.3, VDE 2510-50, EN 50549

### High Performance

- Premium LFP battery with guaranteed quality
- High power density, compact design
- Scalable up to megawatt-hours
- Optimised space utilisation

### Assured Safety

- 4+1 Fire safety design secures minimal risk and loss
- Battery Pack-Level Aerosol Fire Suppression for Precise Protection
- IP66 rating for inverter, IP55 for cabinet
- AC Type II SPD for electrical safety
- Advanced fault detection and response

### Intelligent Design

- Advanced energy management system
- VPP ready with SolaX Cloud (2030.5, OpenADR)
- Supports micro-grids and diverse scenarios
- 7x24h remote monitoring and maintenance

### Flexible Adaptability

- Grid-connected and off-grid support
- Self-developed BMS & EMS via SolaX Cloud
- One year of local historical data storage
- Cell-level balancing and smart temperature control

① Rated for 8000 cycles at 0.25C with EOL at 70% capacity

## C&I ESS CABINET PCS

### X3-TRENE-125K

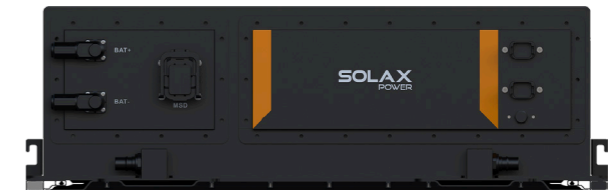
AC INPUT & OUTPUT (ON-GRID)	
Rated AC output power	125 kW
Rated AC output current	181.2 A
Max. AC output apparent power	137.5 kVA
Max. AC output continuous current	208.3 A
Nominal AC voltage	3 / (N) / PE, 230 / 400 V 3 / (N) / PE, 220 / 380 V
Rated AC frequency	50 Hz / 60 Hz
Power Factor range	~ 1 (0.8 lagging to 0.8 leading)
THDi (Rated power)	< 3%
BATTERY	
Battery type	Lithium - ion
Battery voltage range	650 ~ 936 V
Max. charge / discharge current	160 A
GENERAL	
Max. efficiency	98%
Ingress protection	IP66
Operating ambient temperature range	-35~ 60°C
Max. operating altitude	3000 m
Relative humidity	0 ~ 95% RH
Dimensions (W × H × D)	880 × 665 × 310 mm
Net weight	95 kg
Cooling concept	Smart air cooling
Communication interfaces	RS485, CAN, Ethernet, DI
Protection	
Protections	Over / under voltage protection, DC reverse-polarity protection, Residual current detection, Anti-islanding protection
Surge protection (AC)	Type II



### X3-TRENE-125K

Standard	
Safety	EN / IEC62477
EMC	EN61000-6-2/4, EN61000-3-11/12, EN5011, EC62920
Cetification	VDE4105, G99, AS4777, EN50549, CEI 0-21, IEC61727, PEA, MEA, NRS-097-2-1, RD1699, TOR

## C&I ESS CABINET PACK



### TB-HR522

Battery type	LFP 314Ah
Battery capacity	52.2 kWh
Battery configuration	1P52S
Rated battery voltage	166.4 V
Battery voltage range	130 ~ 187.2 V
Weight	330 kg
Charge / Discharge current	≤ 0.5C
Relative humidity	0 ~ 95% RH (non-condensing)
Max. operating altitude	3000 m
Ingress protection	IP67
Communication to PCS	CAN