

AC-coupled ESS Cabinet



ESS-TRENE (Air cooling)

100kW
215kWh



TRENE-P100B215

AC INPUT & OUTPUT (ON-GRID)	
Rated output power	100 kW
Rated output current	144.4 A
Max. output apparent power	110 kVA
Nominal AC voltage	3 / N / PE, 220 / 380 V 3 / N / PE, 230 / 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	Lithium
Rated battery capacity	215 kWh
Rated battery voltage	768 V
Battery voltage range	636 ~ 876 V
Rated charge / discharge current	140 A
ENVIRONMENT LIMIT	
Ingress protection	IP55
Operating ambient temperature range ^①	-30 ~ 55°C
Max. operating altitude	3000 m
Relative humidity	0 ~ 95% RH (non-condensing)
GENERAL	
Dimensions (W × H × D)	1680 × 2420 × 1200 mm
Net weight	2800 kg
Cooling concept	Smart air cooling
Fire protection	Aerosol (Optional: Novec1230) / Water
Topology	Non-isolated
Certificates and approvals	IEC62619, IEC63056:2000, IEC61000, IEC62477-1, UN38.3, GB/T36276, GB/T34131

Smart Management

- Advanced energy management system
- VPP ready with SolaX Cloud (2030.5, OpenADR)
- Support micro-grids and diverse scenarios
- Smart Schedule, Smart Scene and 7×24h TOU
- Wireless meter compatibility

Assured Reliability

- Four-level fire safety protection
- IP66 for inverter, IP55 for cabinet
- LiFePO4 battery cell & high-performance processors
- Type II SPD on AC side
- Advanced fault detection and response
- Support three-phase unbalance output

High Performance

- High power density, compact design
- Scalable up to megawatt-hours
- Optimised space utilisation

Flexible Adaptability

- Grid-connected and off-grid support
- Self-developed BMS & EMS via SolaX Cloud
- One year of historical data storage

X3-TRENE-100K

AC INPUT & OUTPUT (ON-GRID)

Rated output power	100 kW
Rated output current	144.4 A
Max. output apparent power	110 kVA
Nominal AC voltage	3 / N / PE, 220 / 380 V 3 / N / PE, 230 / 400 V
Max. AC input apparent power	110 kVA
Max. AC input current	160 A
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	Lithium
Battery voltage range	600 ~ 876 V
Max. charge / discharge current	160 A

ENVIRONMENT LIMIT

Ingress protection	IP66
Operating ambient temperature range ^①	-30 ~ 55°C
Max. operating altitude	3000 m
Relative humidity	0 ~ 95% RH (non-condensing)

GENERAL

Dimensions (W x H x D)	665 x 950 x 310 mm
Net weight	85 kg
Cooling concept	Smart air cooling
Communication interfaces	RS485, CAN, Ethernet, DI
Topology	Non-isolated

① Derating above +45°C

C&I ESS CABINET PACK

HR140

Battery type	Lithium
Battery capacity	14.3 kWh
Battery configuration	1P16S
Rated cattery voltage	51.2 V
Battery voltage range	40 ~ 58.4 V
Weight	115 kg
Charge / discharge rate	≤ 0.5C
Dimensions (W x H x D)	461 x 228 x 778 mm
Operating temperature range	-20 ~ 53°C
Relative humidity	0 ~ 95% RH (non-condensing)
Max. operating altitude	3000 m
Ingress protection	IP20
Communication to PCS	CAN