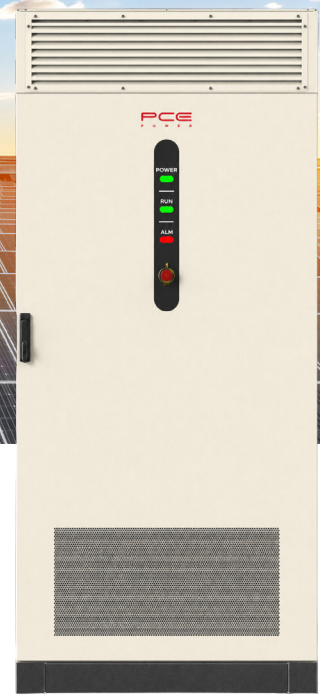


AURA C&I ESS CABINET



PRODUCT FEATURES



SAFE

- Intelligent air cooling for optimal heat dissipation
- Four-level fire protection
- AC & DC type II SPD



ECONOMIC

- Advanced LFP battery quality assured
- High power density with less space
- Expandable to MWh



INTELLIGENT

- AI ready, forecasting solar generation and load consumption
- Smart energy management strategy
- VPP ready, PCE cloud supports resource aggregator (2030.5, OpenADR)
- Support Micro-grid and a variety of scenarios
- Support 7x24h remote O&M and schedule deployment
- Support wireless meter solution



ROBUST

- Support on-grid and off-grid solution
- Self-developed BMS&EMS on PCE Cloud platform
- 1 year history system data backed up on EMS
- Support Cell level balance, smart temperature check and control



AURA series C&I Energy Storage Cabinet

is a highly integrated, all-in-one solution with versatile application scenarios.

AURA series C&I energy storage cabinet is a highly integrated, all-in-one solution with versatile application scenarios. AURA air-cooled series provides efficient, safe, and stable smart energy storage solutions.

Firstly, the cabinet adopts high-density, high-safety, and high-performance LFP cells. With a capacity of 261kWh per cabinet, it can reliably perform charging and discharging operations for single or multiple cabinets, with a lifespan of over 10 years. The large-capacity 314Ah battery cells also reduce the overall system investment cost.

Secondly, the cabinet is equipped with a self-developed Energy Management System (EMS) that can monitor the working status and abnormal alerts of each battery cell, PCS, and fire protection system in real-time. The local data storage capability allows for data analysis and verification for up to 1 year. The advanced EMS system also has leading advantages in intelligent control of different smart operation strategies,

“AURA INTRODUCTION”

autonomous scheduling based on local electricity prices, and comprehensive management of photovoltaic, energy storage systems, EV charging and generators at power plant level. These features improve the overall system efficiency and shorten the investment return period.

Additionally, the cabinet integrates multiple safety protection measures. It has built-in protection functions such as overvoltage, overcurrent, and over-temperature, as well as fire-resistant materials and 4-level fire protection system to promptly detect and respond to potential fire risks. This effectively controls the spread of fires and reduces the risk of safety accidents.

The cabinet is suitable for various commercial and industrial scenarios, including peak shaving, demand response, backup mode, photovoltaic and energy storage integration, and stable load consumption curves. It also supports applications such as virtual power plants (VPP) and frequency regulation

SPECIFICATIONS

Battery Parameters	
Nominal energy(kWh)	261.24
Nominal voltage(V)	832
Cell type	3.2V/314Ah, LFP
Cell grouping	1P52S
Battery pack grouping	(1P52S)×5S
On-grid Output Parameters	
Rated grid voltage (V)	400
Grid frequency (Hz)	50/60
Rated output power (kW)	125
Maximum output power (kW)	137.5
Rated output current (A)	180
Total harmonic distortion of current (%)	≤3
DC component (%)	<0.5
Power factor	-0.99 ~ 0.99
Off-grid Output Parameters	
Off-grid output voltage (V)	400
Off-grid output frequency (Hz)	50/60
Off-grid apparent power (kVA)	125
Maximum apparent power (kVA)	137.5
Voltage total harmonic distortion (%)	≤3 (Linear Load)
Unbalanced load capability (%)	100
Number of off-grid parallel units	10
Basic Parameters	
System efficiency	≥87% (@0.5P, 25°C, BOL,)
Thermal management	PCS: Forced Air Cooling; Battery: Liquid Cooling
Fire protection	Cabinet-level Aerosol + Temperature Sensor + Smoke Detector + Combustible Gas Detector + Intake And Exhaust Fans + Dry Pipe
Communication protocol	Modbus RTU, Modbus TCP, MQTT, IEC104
Human-machine interaction	Indicator Lights + Cloud Platform
Connection method	Three-phase Four-wire
Isolation type	Non-isolated
Operating temperature (°C)	-20 ~ 55°C (Derating Above 45°C)
Operating humidity	0 ~ 95% Rh
Storage temperature (°C)	-30 ~ 60°C
Operating altitude	4000m (Derating Above 2000m)
Protection rating	IP55 (Battery Compartment), IP54 (Electrical Compartment)
Corrosion resistance rating	C4-M (Cabinet Meets C4-M; Liquid Cooling Unit And Pcs Standard C3-M, Optional C4-M)
Dimensions (width × depth × height) mm	976*1532*2428mm(Excluding Lifting Rings)
Weight (t)	Approximately 2.6t
Noise	<75db(A) @1m
Fire protection	IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/-4, IEC60730, UN38.3, EU1542 (design meets), wireless RED, UL9540A, RoHS, REACH PCS grid connection certification: European standard EN50549-1&-2&-10; Germany VDE4110, VDE4120; Spain NTS631:2019, UNE217002:2020, UNE217001:2020; UK G99; Italy CEI 021/16



C&I ESS CABINET Inverter



PCE-AURA-125K

AC Side

Rated AC output power [kW]	125
Rated AC output current [A]	145.0
Max. AC output apparent power [kVA]	110 (10mins)
Nominal AC voltage [V]	3P / (N) / PE, 400 / 230, 380 / 220
Rated AC grid frequency [Hz]	50 / 60
Power Factor range	0.99 leading ~ 0.99 lagging
THDi (Rated power) [%]	< 3

Battery

Battery type	Lithium - ion
Battery voltage range [V]	600 ~ 950
Max. charge / discharge current [A]	140

General

Max. efficiency [%]	98
Ingress protection	IP20
Operating ambient temperature range [°C]	-25 ~ 60
Max. operating altitude [m]	3000
Relative humidity [%]	0 ~ 95%
Dimensions (WxHxD) [mm]	480 × 260 × 720
Net weight [kg]	70
Cooling concept	Force air cooling
Communication Interfaces	RS485 / CAN / Ethernet / DI
Topology	Transformerless

Protection

Over/under voltage protection	Yes
DC reverse-polarity protection	Yes
Residual current detection	Yes
Anti-islanding protection	Yes



pcepower.com

PCE Power Inc.
Toronto, Canada

PCE Power FZE
Dubai, UAE

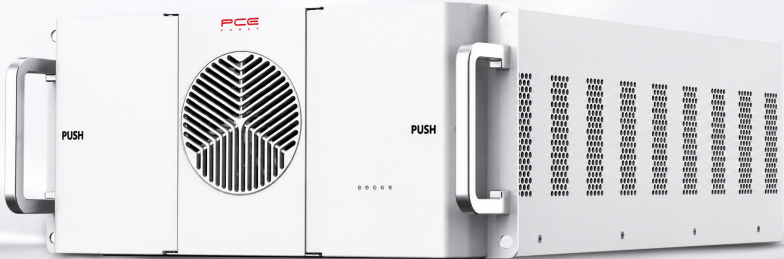
PCE Power Europe
Rotterdam, NL

PCE Power Guangzhou
Guangzhou, China

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C&I ESS CABINET Pack



	PCE-AURA-HR140
Battery Type	LFP 314Ah
Total Capacity [kWh]	16
Battery Configuration	1P16S
Nominal Battery Voltage [V]	51.2
Battery Voltage Range [V]	40 ~ 58.4
Weight [kg]	115
Charge/Discharge rate	≤ 0.5C
Dimensions (W×H×D) [mm]	461 × 228 × 778
Operating Temperature Range [°C]	-20 ~ 53
Relative Humidity [%]	0 ~ 95
Altitude [m]	3000
Ingress Protection	IP20
Communication to PCS	CAN