

OHC-A Series

Commercial & Industrial Outdoor Integrated Cabinet

The OHC-A Series Commercial and Industrial Outdoor Integrated Cabinet is designed for various industrial and commercial applications, such as industrial parks and commercial complexes. The integrated cabinet features a modular design, offering flexible expansion capabilities and easy installation and maintenance.

The entire system is explosion-proof. Aerosol fire protection system. It also includes secondary surge protection on the AC side (with fault alarm capabilities), integrated emergency shutdown (EPO), leakage current detection protection, and other safety functions to ensure the security of the energy station.

The cabinet features an integrated dual-cooling system, combining both fans and air conditioning, with an IP55 protection rating for outdoor installation. Additionally, it integrates an Energy Management System (EMS) function, supports photovoltaic connections, and various EMS energy strategies. It is capable of participating in power market trading (VPP), meeting the needs of electrical load management in parks, and supporting the development of energy storage for commercial and industrial use.



OHC-A Series 125KW/241KWh



Supports photovoltaic access



Multiple communication methods support remote upgrades



Ultra-high energy density, compact size, easy installation and transportation



Modular design for flexible expansion and easy maintenance



Supports 100% unbalanced loads and 110% long-term overloads



Adjustable output power, configurable charge and discharge power, strong grid adaptability

* This product diagram is for reference only, the delivery in kind shall prevail! *

Data Sheet

OHC-A 125KW/241KWh

Battery Parameters

Usable Energy (kWh)	241
Cell Type	LFP(LiFePO4)
Battery Module Capacity (kWh)	16.076
Number of battery modules	15
Rated Voltage(V)	768
Maximum Charge/Discharge Current (A)	140

PV INPUT Parameters

Maximum Input Power (kW)	240
Maximum Input Voltage (V)	1000
MPPT Voltage Range (V)	150~950
Startup Voltage (V)	180
Rated Input Voltage (V)	600
Maximum Input Current per MPPT (A)	42
Maximum Short-Circuit Current per MPPT (A)	60
Number of MPPTs	10
Number of Strings per MPPT	2

Grid-Tied Output Parameters

Rated Output Power (kW)	125
Rated Output Apparent Power (kVA)	125
Rated Output Voltage (V)	3/N/PE, 220V/380V, 230V/400V
Output Voltage Frequency (Hz)	50/60
Rated Output Current (A)	180.4/189.9
Maximum Input Current (A)	250
Power Factor	>0.99(0.8 leading to 0.8 lagging)
Total Current Harmonic Distortion	<3%

Off-Grid Output Parameters

Rated Output Power (kW)	125
Maximum Off-Grid Apparent Power (kVA)	Continuous output of 1.2 times rated power for 100s, Continuous output of 1.4 times rated power for 10s, Continuous output of 1.6 times rated power for 200ms
Rated Output Voltage (V)	3/N/PE, 220V/380V, 230V/400V
Rated Output Voltage Frequency (Hz)	50/60
Total Voltage Harmonic Distortion (@ linear load)	<2%

Efficiency

Maximum PCS Efficiency	97.60%
System Efficiency	95.00%

Protection

PV Reverse Polarity Protection	Integrated
Residual Current Monitoring	Integrated
Battery Reverse Polarity Protection	Integrated
Anti-Islanding Protection	Integrated
AC Overcurrent Protection	Integrated
AC Short Circuit Protection	Integrated
DC Switch	Integrated
DC Surge Protection	Level 2
AC Surge Protection	Level 3

Basic Parameters

Operating Temperature Range (°C)	-20~+55
Relative Humidity	0~95%
Maximum Operating Altitude (m)	3000
Cooling Method	Intelligent Air Cooling
Human-Machine Interface	LED, WLAN+App
BMS Communication Method	RS485, CAN
Communication Protocol	RS485
Communication Interface	CAN
Weight (kg)	~2430
Dimensions (W x H x D mm)	1176*2392*1184
Topology	Non-Isolated
Protection Level	IP55
Firefighting System	Aerosol
Installation Method	Floor-mounted