

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 30KW/112KWh



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 30KW/112KWh

Battery Parameters

Usable Energy (kWh)	112
Cell Type	LFP(LiFePO4)
Battery Module Capacity (kWh)	16.076
Number of battery modules	7
Rated Voltage(V)	358.4
Maximum Charge/Discharge Current (A)	157

PV INPUT Parameters

Maximum Input Power (kW)	60
Maximum Input Voltage (V)	1000
MPPT Voltage Range (V)	150~850
Startup Voltage (V)	180
Rated Input Voltage (V)	600
Maximum Input Current per MPPT (A)	40
Maximum Short-Circuit Current per MPPT (A)	60
Number of MPPTs	3
Number of Strings per MPPT	3/6

Grid-Tied Output Parameters

Rated Output Power (kW)	30
Rated Output Apparent Power (kVA)	33
Rated Output Voltage (V)	3/N/PE,220/380,230/400
Output Voltage Frequency (Hz)	50/60
Maximum Output Current (A)	45.6/43.3
Maximum Input Current (A)	45.6/43.3
Power Factor	>0.99(0.8 leading to 0.8 lagging)
Total Current Harmonic Distortion	<3%

Off-Grid Output Parameters

Rated Output Power (kW)	30
Maximum Off-Grid Apparent Power (kVA)	33
Rated Output Voltage (V)	3/N/PE,220/380,230/400
Rated Output Voltage Frequency (Hz)	50/60
Total Voltage Harmonic Distortion (@ linear load)	<2%

Efficiency

Maximum PCS Efficiency	97.80%
System Efficiency	97.50%

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 2

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	7" LCD,Bluetooth+App
BMS Communication Method	RS485,CAN
Communication Protocol	RS485
Communication Interface	CAN
Weight (kg)	~1300
Dimensions (W x H x D mm)	804*2179*1184
Topology	Non-Isolated
Protection Level	IP55
Firefighting System	Aerosol
Installation Method	Floor-mounted