



Omni 215

Omni AA 120-215

The All-in-one air-cooled Energy Storage System (ESS) cabinet adopts an advanced cabinet-level cooling and temperature balancing architecture. The modular design provides greater flexibility, ideal for small C&I energy storage applications. The Omni 215's high energy density cells and many advanced features will significantly improve your ESS projects' economic return, safety considerations, and construction convenience.

Technical Specifications

DC

Cell Type	LiFePO4 (LFP)
Rated Capacity	215kWh
Nominal Voltage	768Vdc
Voltage Range	680 to 864Vdc
Standard Charging Current	140A
Max Charging Current	176A
Standard Discharging Current	140A
Max Discharging Current	176A
Throughput Energy	540MWh (+25°C, 0.5C, 90%DOD, 70%SOH)

AC

Nominal Output Voltage	230/400Vac, 3P+N+PE
Rated Grid Frequency	50/60Hz
Rated Output Power	120kW
Max Output Power	173A
Power Factor (cos θ)	0.8cap to 0.8ind

System

System Efficiency	87.5%
Full Load Charge/Discharge Conversion time (ms)	<100
Cable Entry Methods	Lower Outline Line

Communication

Battery Communication	CAN
Data Communication	RS485
Cloud Platform	LAN+4G

Protection

DC/AC Undervoltage/ Overcharge Protection	✓
DC/AC Overcurrent Protection	✓
SOC Alarm	✓
Cell Undervoltage Protection	✓
Overload Protection	✓
High Temperature Alarm	✓
Smoke Detector	✓
Fire Protection System	✓
DC Fuse	✓
AC Lightning Protection	✓

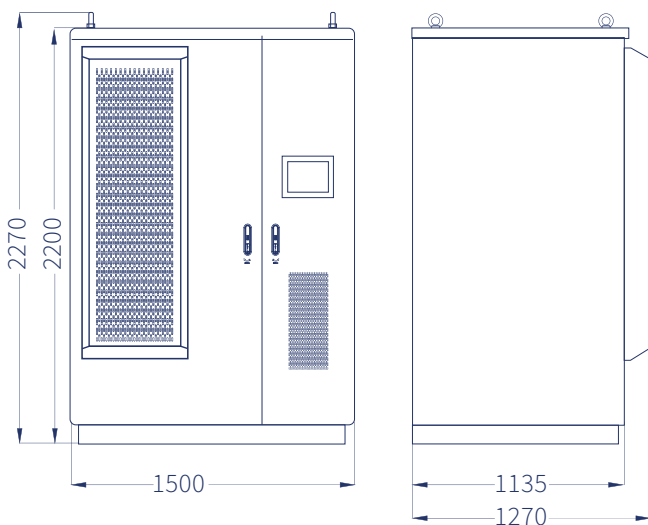
Working Environment

Operation Temperature	-20°C to +45°C
Storage Temperature	-20°C to +45°C
Altitude	≤3000m

Basic Parameters

Dimension(WDH)	1500x1270x2200mm
Weight	2300kg
IP Rating	IP54
Cooling Method	Air-cooling

Installation Dimensions (mm)



Electrical Topology Diagram

