

AIR COOLING ESS

HYX-EF215P2-M

HYX-EF215P2-MS



Ultimate Performance, Light Storage Fusion

- Integrated photovoltaic input function
- Supports 8 units parallel on grid, system can cover 100kW/215kWh~800kW/1.72MWh
- Supports 4 units parallel off grid, system can cover 100kW/215kWh~400kW/860kWh
- Single unit supports seamless switching, off-grid switching time $\leq 20\text{ms}$
- Three-phase four-bridge arm architecture supports single-phase 100% unbalanced load function
- Support pure grid connection, pure off-grid, and combined operation

Safety & Reliable Performance

- Multi-level fire protection system
- Battery compartment and electrical compartment are isolated
- Certification: UN38.3, CE, IEC62619, 1.2m drop test, IEC 62477, IEC 61000

Multi-strategy Applications

- Integration of EMS inside
- Support peak shaving and valley filling, demand control, emergency backup power supply and other power consumption strategies
- Support MQTT protocol and IEC104 protocol, can participate in peak and frequency modulation

Easy to Install & Maintain

- Pre-installation and pre-test are available at the factory, Quick on-site construction wiring installation
- Support hoisting/fork construction methods
- Modular design, maintenance worry-free
- Remote O&M management, support WEB, Cloud & APP

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Technical Specifications

Product Model	HYX-EF215P2-M	HYX-EF215P2-MS
Battery Rating		
Battery Type	LiFePO4	
Cell Capacity	280Ah	
Battery Configuration	1P240S	
Nominal Voltage/Voltage Range	768/672-864V	
Nominal Capacity	215kWh	
Maximum Charge/Discharge Current	280A	
Nominal Charge/Discharge Current	140A	
Calendar Life	6,000 / 70%EOL (25±2°C, 0.5P)	
PV Rating		
Maximum Input Voltage	672V	
MPPT Voltage Range	310-650V	
Max. Input Current Per MPPT Channel	165A	
Isc Current Per MPPT Channel	1800A	
MPPT Channels	2	
Rated Power Per MPPT Channel	50kW	
AC Grid Rating		
Nominal Input/Output Voltage	3L/N/PE, 400/230V	
Nominal Frequency	50/60Hz	
Nominal Input/Output Power	100kW	
Max. Input/Output Apparent Power	110kVA	
Nominal Input/Output AC Current	145A	
Max. Input/Output AC Current	160A	
Power Factor	0.99 leading ~ 0.99 lagging, At nominal power	
AC Backup Rating		
Nominal Voltage	/	3L/N/PE, 400/230V
Nominal Frequency	/	50/60Hz (-2.5 to +2.5Hz)
Max. Output AC Current	/	160A
Max. Active Power	/	100kW
Power Factor	/	0.99 leading ~ 0.99 lagging, At nominal Power
General Data		
System Parallel Units	8 (On-grid), 4 (Off-grid) ¹	
Operating Temperature Range	-20 to 50°C	
Operating Humidity Range	0 - 95%RH	
Noise	≤ 75dB	
Dimensions (W*H*D)	1730*2200*1170mm	
Weight	3000kg	
Protection Degree	IP54	
Cooling Method	Air Cooling	
Fire Protection Method	Aerosol Fire Suppression	
Max. Operating Altitude	≤ 2,000m	
Networking Mode	WIFI / LAN / 4G(Optional)	

¹: HYX-EF215P2-M supports 8 units in parallel for On-grid solution and 4 units for off-grid solution; HYX-EF215P2-MS supports On/Off-grid solution working as single unit.