

Air Cooling Ess

HYX-EF215P2-M

HYX-EF215P2-MS

Version 1.8-2605

Design and specifications are subject to change without notice



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

Technical Specifications

HYX-EF215P2-M

HYX-EF215P2-MS

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 ~ 864Vd.c.	
Nominal Capacity	215kWh	
Maximum Charge/Discharge Current	280Ad.c.	
Nominal Charge/Discharge Current	140Ad.c.	
Calendar Life	6,000/70%EOL (25±2°C, 0.5P)	

Technical Specifications

HYX-EF215P2-M

HYX-EF215P2-MS

Product model	HYX-EF215P2-M	HYX-EF215P2-MS
PV Rating		
Maximum Input Voltage	672Vd.c.	
MPPT Voltage Range	310 ~ 650Vd.c.	
Max. Input Current Per MPPT Channel	165Ad.c.	
Isc Current Per MPPT Channel	1800Ad.c.	
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	145Aa.c.	
Max. Input/Output AC Current	160Aa.c.	
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	/	160Aa.c.
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	≤ 2000m	
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.