

HYBRID ESS CABINET

50-125kW
215kWh



Safe & Reliable

- A+ grade cells with automotive-grade standard
- Five-level safety design
- 300m AFCI detection with 0.5s rapid shutdown
- Support three-phase unbalance output
- IP66 for inverter, IP55 for cabinet

Convenient & User-Friendly

- Compact & Lightweight Design, pre-installed for easy installation
- Flexible parallel connection of cabinets
- App-based quick setup, simple and efficient

Profitable & Efficient

- Innovative liquid cooling technology, extend battery life by 20%
- PV-ESS integrated, lower system cost
- AI dynamic MPPT, boosting power generation by 5%
- DC coupled solution, higher system efficiency

Smart & Manageable

- Three-phase wiring sequence adaptive, easy system wiring
- Support on&off grid switching, suitable for various application scenarios
- Real-time monitoring with OTA for online maintenance

Product Model	HYX-H50K-ET		HYX-H75K-ET		HYX-H99K9-ET	
DC Input (PV)						
Max. Input Voltage			1,100V ¹			
Rated Input Voltage			650V			
Start-up Voltage			160V			
MPPT Operating Voltage Range			140V ~ 1,000V			
Max. Input Current per MPPT			40A			
Max. Input Current per String			20A			
Max. Short-circuit Current per MPPT			50A			
Number of MPPT	4		6		8	
Number of Input	8		12		16	
Max. Backfilling Current			0A			
DC Input (Battery)						
Rated Input Voltage			768V			
Battery Voltage Range			600V ~ 950V			
Max. Charge/Discharge Current	80.8A		121.3A		161.7A	
AC Output						
AC Output Power	50kW		75kW		99.9kW	
Max. Apparent Power	55kVA		82.5kVA		109.9kVA	
Rated Output Voltage			220/380V , 230/400V , 3L/N/PE			
AC Grid Frequency			50 / 60Hz			
Rated Output Current	75.9A/380V 72.1A/400V		113.9A/380V 108.2A/400V		151.9A/380V 144.3A/400V	
Max. Output Current	83.5A/380V 79.4A/400V		125.3A/380V 119.0A/400V		167.1A/380V 158.7A/400V	
Adjustable Power Factor			> 0.99 / 0.8 leading...0.8 lagging			
Three Phase Unbalanced Output			100% Unbalanced Output			
THDi			< 3%			
Efficiency						
Max. Efficiency			98.5%			
European Weighted Efficiency			98.0%			
MPPT Efficiency			99.9%			
Protection						
Active Anti-islanding Protection			Yes			
Residual Current Monitoring			Yes			
DC Reverse Polarity Protection			Yes			
DC Switch			Yes			
DC Overvoltage Protection			Yes			
DC Overcurrent Protection			Yes			
AC Overfrequency/Underfrequency Protection			Yes			
AC Short-Circuit Protection			Yes			
AC Overvoltage Protection			Yes			
AC Overcurrent Protection			Yes			
DC Surge Protection			Type II			
AC Surge Protection			Type II			
Ground Fault Detection			Yes			
AFCI			Optional			
PID Recovery			Optional			
General Data						
Operating Temperature Range			-30 to + 60°C			
Relative Operating Humidity			0 - 100% RH			
Max. Operating Altitude			4,000m			
Cooling			Smart Air Cooling			
Display			LED+APP			
Communication			RS485 / 4G / WIFI / HPLC			
Weight			95kg			
Dimensions (W*H*D)			880*760*340mm			
Topology			Non-Isolated			
Degree of Protection			IP66			

1: When connected to the battery cabinet, the maximum PV input voltage is 650V.

Product Model	HYX-H100K-ET		HYX-H110K-ET	HYX-H125K-ET
DC Input (PV)				
Max. Input Voltage			1,100V ¹	
Rated Input Voltage			650V	
Start-up Voltage			160V	
MPPT Operating Voltage Range			140V - 1,000V	
Max. Input Current per MPPT			40A	
Max. Input Current per String			20A	
Max. Short-circuit Current per MPPT			50A	
Number of MPPT			8	
Number of Input			16	
Max. Backfilling Current			0A	
DC Input (Battery)				
Rated Input Voltage			768V	
Battery Voltage Range			600V - 950V	
Max. Charge/Discharge Current	161.7A		177.9A	183.8A
AC Output				
AC Output Power	100kW		110kW	125kW
Max. Apparent Power	110kVA		121kVA	125kVA
Rated Output Voltage			220/380V, 230/400V, 3L/N/PE	
AC Grid Frequency			50 / 60Hz	
Rated Output Current	151.9A/380V 144.3A/400V		1671A/380V 158.7A/400V	189.9A/380V 180.4A/400V
Max. Output Current	1671A/380V 158.7A/400V		183.8A/380V 174.6A/400V	189.9A/380V 180.4A/400V
Adjustable Power Factor			> 0.99 / 0.8 leading...0.8 lagging	
Three Phase Unbalanced Output			100% Unbalanced Output	
THDi			< 3%	
Efficiency				
Max. Efficiency			98.5%	
European Weighted Efficiency			98.0%	
MPPT Efficiency			99.9%	
Protection				
Active Anti-islanding Protection			Yes	
Residual Current Monitoring			Yes	
DC Reverse Polarity Protection			Yes	
DC Switch			Yes	
DC Overvoltage Protection			Yes	
DC Overcurrent Protection			Yes	
AC Overfrequency/Underfrequency Protection			Yes	
AC Short-Circuit Protection			Yes	
AC Overvoltage Protection			Yes	
AC Overcurrent Protection			Yes	
DC Surge Protection			Type II	
AC Surge Protection			Type II	
Ground Fault Detection			Yes	
AFCI			Optional	
PID Recovery			Optional	
General Data				
Operating Temperature Range			-30 to + 60°C	
Relative Operating Humidity			0 - 100% RH	
Max. Operating Altitude			4,000m	
Cooling			Smart Air Cooling	
Display			LED+APP	
Communication			RS485 / 4G / WIFI / HPLC	
Weight			95kg	
Dimensions (W*H*D)			880*760*340mm	
Topology			Non-Isolated	
Degree of Protection			IP66	

1: When connected to the battery cabinet, the maximum PV input voltage is 650V.

Product Model	HYX-BOA215
Technical Parameter	
Battery Type	LiFePO4
Battery Module Capacity	14.336kWh
Battery Module Nominal Voltage	51.2V
Battery Module Qty In Series	15
System Nominal Voltage	768V
System Operating Voltage	672V - 864V
System Capacity	215kWh
Charge/Discharge Current	Recommend: 140A / Maximum: 170A (60s)
Calendar Life	≥6000 (25±2°C, 0.5C / 0.5C, 70%EOL)
General Parameter	
Operating Temperature Range	Charge: 0 to +55°C / Discharge: -20 to +55°C
Operating Humidity Range	0 - 95% RH
Max. Operating Altitude	≤2000m
Cooling Method	Smart Air Cooling
Protection Degree	IP54
Dimensions (W*H*D)	1440*2200*1170mm
Weight	2700kg
Communication	CAN
Installation Location	Outdoor
Fire Protection Method	Aerosol Fire Suppression
Networking Mode	WIFI / LAN

Preliminary