

HYBRID ESS CABINET

50-125kW
215kWh



Safe & Reliable

- Five-level safety design
- 300m AFCI detection with 0.5s rapid shutdown
- Support three-phase unbalance output
- IP66 for inverter, IP54 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

- 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		0.9 leading...0.9 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	167.1A/380V 158.7A/400V	189.9A/380V 180.4A/400V
Max. Output Current	167.1A/380V 158.7A/400V	183.8A/380V 174.6A/400V	189.9A/380V 180.4A/400V
Adjustable Power Factor		0.9 leading...0.9 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