

HYBRID LIQUID-COOLING ESS CABINET

50-125kW

261kWh



Safety & Reliable Performance

- Multi-level fire protection system
- Battery compartment and electrical compartment are isolated
- Certification: UN38.3, 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/IEC104/Modbus TCP/Modbus RTU, 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

Product Model	HYX-H50K-ET		HYX-H75K-ET	HYX-H99K9-ET
DC Input (PV)				
Max. Input Voltage			1,100V	
Rated Input Voltage			1000V	
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	

Product Model	HYX-H100K-ET		HYX-H110K-ET	HYX-H125K-ET
DC Input (PV)				
Max. Input Voltage			1,100V	
Rated Input Voltage			1000V	
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	

Technical Specifications

Product Model	HYX-BOL261
Battery Rating	
Battery Type	LiFePO4
Cell Capacity	314Ah
Battery Configuration	1P52S
Nominal Voltage/Voltage Range	728V-936V
Nominal Capacity	261kWh
Maximum Charge/Discharge Current	314A
Nominal Charge/Discharge Current	157A
Calendar Life	8,000 / 70%EOL (25±2°C, 0.5P)
General Data	
System Parallel Units	12
Operating Temperature Range	-20 to 50°C
Operating Humidity Range	0 - 100%RH non-condensing
Noise	≤ 70dB
Dimensions (W*H*D)	1000*2445*1467mm
Weight	≈ 2.8T
Protection Degree	IP55
Cooling Method	Liquid Cooling
Fire Protection Method	Aerosol Fire Suppression
Max. Operating Altitude	≤ 3,000m
Networking Mode	WIFI / LAN / 4G(Optional)