

HYBRID INVERTER

HYX-H50K/75K/80K/ 99K9/100K/110K/125K-ET



Safe & Reliable

- Type II DC/AC surge protection, lightning-proof
- 300m AFCI detection with 0.5s rapid shutdown
- IP66, 1400+ cumulative rigorous tests

Convenient & User-Friendly

- Compact and lightweight, plug-and-play
- App-based quick setup, simple and efficient

Profitable & Efficient

- 40A input per MPPT
- Built-in PID repair, improving overall system performance
- AI dynamic MPPT, boosting power generation by 5%
- DC coupled solution, higher system efficiency
- PV-ESS integrated, lower system cost

Smart & Manageable

- Three-phase wiring sequence adaptive, easy system wiring
- Intelligent IV diagnostics for precise fault identification
- Real-time monitoring with OTA for online maintenance

Technical Specifications

Product Model	HYX-H50K-ET	HYX-H75K-ET	HYX-H80K-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	6
Number of Strings Per MPPT		2	
DC Input (Battery)			
Rated Input Voltage		768V	
Battery Voltage Range		600V - 950V	
Max. Charge/Discharge Current	80.8A	121.3A	129.3A
AC Output			
AC Output Power	50kW	75kW	80kW
Max. Apparent Power	55kVA	82.5kVA	88kVA
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	121.5A/380V 115.5A/400V
Max. Output Current	83.5A/380V 79.4A/400V	125.3A/380V 119.0A/400V	133.7A/380V 127A/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	
AC Short-Circuit Protection		Yes	
AC Overvoltage Protection		Yes	
AC Overcurrent Protection		Yes	
DC Surge Protection		Type II	
AC Surge Protection		Type II	
AFCI		Optional	
PID Recovery		Optional	
General Data			
Operating Temperature Range		-30 to + 60°C	
Relative Operating Humidity		0 ~ 100 %RH	
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.

Technical Specifications

Product Model	HYX-H99K9-ET		HYX-H100K-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		8	
Number of Strings Per MPPT		2		
DC Input (Battery)				
Rated Input Voltage			768V	
Battery Voltage Range			600V - 950V	
Max. Charge/Discharge Current	161.7A		161.7A	
AC Output				
AC Output Power	99.9kW		100kW	
Max. Apparent Power	109.9kVA		110kVA	
Rated Output Voltage	220/380V, 230/400V, 3L/N/PE			
AC Grid Frequency	50 / 60Hz			
Rated Output Current	151.9A/380V 144.3A/400V		151.9A/380V 144.3A/400V	
Max. Output Current	167.1A/380V 158.7A/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	
AC Short-Circuit Protection			Yes	
AC Overvoltage Protection			Yes	
AC Overcurrent Protection			Yes	
DC Surge Protection			Type II	
AC Surge Protection			Type II	
AFCI			Optional	
PID Recovery			Optional	
General Data				
Operating Temperature Range			-30 to + 60°C	
Relative Operating Humidity			0 ~ 100 %RH	
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.

Technical Specifications

Product Model	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		8	
Number of Strings Per MPPT			2	
DC Input (Battery)				
Rated Input Voltage			768V	
Battery Voltage Range			600V - 950V	
Max. Charge/Discharge Current	177.9A		183.8A	
AC Output				
AC Output Power	110kW		125kW	
Max. Apparent Power	121kVA		125kVA	
Rated Output Voltage			220/380V, 230/400V, 3L/N/PE	
AC Grid Frequency			50 / 60Hz	
Rated Output Current	167.1A/380V 158.7A/400V		189.9A/380V 180.4A/400V	
Max. Output Current	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	
AC Short-Circuit Protection			Yes	
AC Overvoltage Protection			Yes	
AC Overcurrent Protection			Yes	
DC Surge Protection			Type II	
AC Surge Protection			Type II	
AFCI			Optional	
PID Recovery			Optional	
General Data				
Operating Temperature Range			-30 to + 60°C	
Relative Operating Humidity			0 ~ 100 %RH	
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.