Design and specifications are subject to change without notice.
Version 1.4-202506 (Preliminary)

HYXiPOWER

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	
Max. Backfilling Current		0A	
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.

Preliminary

Technical Specifications

Product Model	HYX-H99K9-ET	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	8	8	8
Number of Strings Per MPPT	2			
Max. Backfilling Current	0A			
DC Input (Battery)				
Rated Input Voltage	768V			
Battery Voltage Range	600V - 950V			
Max. Charge/Discharge Current	161.7A	161.7A	177.9V	183.8V
AC Output				
AC Output Power	99.9kW	100kW	110kW	125kW
Max. Apparent Power	109.9kVA	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	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	167.1A/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			
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.

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