

Hybrid Inverter

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

Version 1.8-2606

Design and specifications are subject to change without notice.



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

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

Product Model	HYX-H50K-ET	HYX-H75K-ET	HYX-H80K-ET
DC Input (PV)			
Max. Input Voltage		1100Vd.c.	
Rated Input Voltage		650Vd.c.	
Start-up Voltage		160Vd.c.	
MPPT Operating Voltage Range		140 ~ 1000Vd.c.	
Max. Input Current per MPPT		40Ad.c.	
Max. Input Current per String		20Ad.c.	
Max. Short-circuit Current per MPPT		50Ad.c.	
Number of MPPT	4	6	6
Number of Strings Per MPPT		2	
DC Input (Battery)			
Rated Input Voltage		768Vd.c.	
Battery Voltage Range		600V ~ 950Vd.c.	
Max. Charge / Discharge Current	80.8Ad.c.	121.3Ad.c.	129.3Ad.c.
AC Output			
AC Output Power	50kW	75kW	80kW
Max. Apparent Power		82.kA	
Rated Output Voltage		220/380Va.c., 230/400Va.c., 3L/N/PE	
AC Grid Frequency		50/60Hz	
Rated Output Current	75.9Aa.c./380Va.c. 72.1Aa.c./400Va.c.	113.9Aa.c./380Va.c. 108.2Aa.c./400Va.c.	121.5Aa.c./380Va.c. 115.5Aa.c./400Va.c.
Max. Output Current	83.5Aa.c./380Va.c. 79.4Aa.c./400Va.c.	125.3Aa.c./380Va.c. 119.0Aa.c./400Va.c.	133.7Aa.c./380Va.c. 127Aa.c./400Va.c.

Technical Specifications

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

Product Mode	HYX-H50K-ET	HYX-H75K-ET	HYX-H80K-ET
AC Output			
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	4000m		
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

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

Product Mode	HYX-H99K9-ET	HYX-H100K-ET
DC Input (PV)		
Max. Input Voltage	1100Vd.c.	
Rated Input Voltage	650Vd.c.	
Start-up Voltage	160Vd.c.	
MPPT Operating Voltage Range	140 ~ 1000Vd.c.	
Max. Input Current per MPPT	40Ad.c.	
Max. Input Current per String	20Ad.c.	
Max. Short-circuit Current per MPPT	50Ad.c.	
Number of MPPT	8	8
Number of Strings Per MPPT	2	
DC Input (Battery)		
Rated Input Voltage	768Vd.c.	
Battery Voltage Range	600V ~ 950Vd.c.	
Max. Charge / Discharge Current	161.7Ad.c.	161.7Ad.c.
AC Output		
AC Output Power	99.9kW	100kW
Max. Apparent Power	109.9kVA	110kVA
Rated Output Voltage	220/380Va.c., 230/400Va.c., 3L/N/PE	
AC Grid Frequency	50/60Hz	
Rated Output Current	151.9Aa.c./380Va.c. 144.3Aa.c./400Va.c.	151.9Aa.c./380Va.c. 144.3Aa.c./400Va.c.
Max. Output Current	167.1Aa.c./380Va.c. 158.7Aa.c./400Va.c.	167.1Aa.c./380Va.c. 158.7Aa.c./400Va.c.
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	

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

Product Mode	HYX-H99K9-ET	HYX-H100K-ET
General Data		
Operating Temperature Range	-30 to + 60°C	
Relative Operating Humidity	0 ~ 100 %RH	
Operating Altitude	4000m	
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

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

Product Mode	HYX-H110K-ET		HYX-H125K-ET	
DC Input (PV)				
Max. Input Voltage			1100Vd.c.	
Rated Input Voltage			650Vd.c.	
Start-up Voltage			160Vd.c.	
MPPT Operating Voltage Range			140 ~ 1000Vd.c.	
Max. Input Current per MPPT			40Ad.c.	
Max. Input Current per String			20Ad.c.	
Max. Short-circuit Current per MPPT			50Ad.c.	
Number of MPPT	8		8	
Number of Strings Per MPPT			2	
DC Input (Battery)				
Rated Input Voltage			768Vd.c.	
Battery Voltage Range			600Vd.c. ~ 950Vd.c.	
Max. Charge / Discharge Current	177.9Ad.c.		183.8Ad.c.	
AC Output				
AC Output Power	110kW		125kW	
Max. Apparent Power	121kVA		125kVA	
Rated Output Voltage			220/380Va.c., 230/400Va.c., 3L/N/PE	
AC Grid Frequency			50/60Hz	
Rated Output Current	167.1Aa.c./380Va.c. 158.7Aa.c./400Va.c.		189.9Aa.c./380Va.c. 180.4Aa.c./400Va.c.	
Max. Output Current	183.8Aa.c./380Va.c. 174.6Aa.c./400Va.c.		189.9Aa.c./380Va.c. 180.4Aa.c./400Va.c.	
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	

Technical Specifications

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

Product Mode	HYX-H99K9-ET	HYX-H100K-ET
General Data		
Operating Temperature Range	-30 to + 60°C	
Relative Operating Humidity	0 ~ 100 %RH	
Operating Altitude	4000m	
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