

String Inverter

HYX-S50K/75K/80K/99K9/100K/110K/125K-T2

Version 1.5-2606

Design and specifications are subject to change without notice



Safe & Reliable

- IP66, 1400+ Cumulative Rigorous Tests
- 300m AFCI Detection with 0.5s
- Type II DC/AC Surge Protection



Convenient & User-Friendly

- Compact and Lightweight Design, Plug and Play Installation
- App-Based Quick Setup



Profitable & Efficient

- 40A Input, 182&210mm Panels Supported
- AI Dynamic MPPT, Boosting Power Generation by 5%



Smart & Manageable

- Intelligent IV Diagnostics for Precise Fault Identification
- Real-Time Monitoring with OTA for Online Maintenance
- Three-phase Wiring Sequence Adaptive, Easy System Wiring

Technical Specifications

HYX-S50K/75K/80K/99K9/100K/110K/125K-T2

Product Model	HYX-S50K-T2	HYX-S75K-T2	HYX-S80K-T2
PV Input			
Max.Input Voltage		1100Vd.c.	
Nominal Input Voltage		650Vd.c.	
Start-up Voltage		160Vd.c.	
MPPT Operating Voltage Range		140 ~ 1000Vd.c.	
MPPT Full Load Voltage Range		500 ~ 850Vd.c.	
Max.Input Current Per MPPT		40Ad.c.	
Max.Input Current Per String		20Ad.c.	
Max.Short-Circuit Current		50Ad.c.	
Number of MPPT	4		6
Max.Input Number Per MPPT		2	
AC Output			
Nominal Output Power	50kW	75kW	80kW
Max.Apparent Power	55kVA	82.5kVA	88kVA
Nominal Output Voltage		220/380Va.c., 230/400Va.c., 3L/N/PE	
Nominal AC Grid Frequency		50/60Hz	

Technical Specifications

HYX-S50K/75K/80K/99K9/100K/110K/125K-T2

Product Model	HYX-S50K-T2	HYX-S75K-T2	HYX-S80K-T2
Nominal 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.
Adjustable Power Factor	0.99/0.8 leading...0.8 lagging		
THDi	< 3%		
Efficiency			
Max.Efficiency	98.70%		
European Weighted Efficiency	98.00%		
MPPT Efficiency	99.90%		
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		
Ground Fault Detection	YES		
AFCI	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/WLAN+App		
Communication	RS485/4G/Wi-Fi		
Weight	95kg		
Dimensions (W × H × D)	880 × 760 × 340mm		
Topology	Non-Isolated		
Degree of Protection	IP66		
Overvoltage Level	PV II/AC III		

Technical Specifications

HYX-S50K/75K/80K/99K9/100K/110K/125K-T2

Product Model	HYX-S99K9-T2	HYX-S100K-T2	HYX-S110K-T2	HYX-S125K-T2
PV Input				
Max.Input Voltage		1100Vd.c.		
Nominal Input Voltage		650Vd.c.		
Start-up Voltage		160Vd.c.		
MPPT Operating Voltage Range		140 ~ 1000Vd.c.		
MPPT Full Load Voltage Range		500 ~ 850Vd.c.		
Max.Input Current Per MPPT		40Ad.c.		
Max.Input Current Per String		20Ad.c.		
Max.Short-Circuit Current		50Ad.c.		
Number of MPPT		8		
Max.Input Number Per MPPT		2		
AC Output				
Nominal Output Power	99.9kW	100kW	110kW	125kW
Max.Apparent Power	109.9kVA	110kVA	121kVA	125kVA
Nominal Output Voltage		220/380Va.c., 230/400Va.c., 3L/N/PE		
Nominal AC Grid Frequency		50/60Hz		
Nominal Output Current	151.9Aa.c./380Va.c. 144.3Aa.c./400Va.c.	151.9Aa.c./380Va.c. 144.3Aa.c./400Va.c.	167.1Aa.c./380Va.c. 158.7Aa.c./400Va.c.	189.9Aa.c./380Va.c. 180.4Aa.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.	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		
THDi		< 3%		
Efficiency				
Max.Efficiency		98.70%		
European Weighted Efficiency		98.00%		
MPPT Efficiency		99.90%		
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		
Ground Fault Detection		YES		
AFCI		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/WLAN+App		
Communication		RS485/4G/Wi-Fi		
Weight		95kg		
Dimensions (W × H × D)		880 × 760 × 340mm		
Topology		Non-Isolated		
Degree of Protection		IP66		
Overvoltage Level		PV II/AC III		