

STRING INVERTER

HYX-S100/110/120K-T



Safe & Reliable

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

Convenient & User-Friendly

- Compact and lightweight design, plug-and-play installation
- App-based quick setup
- Intelligent layout with rapid module-level visualization

Profitable & Efficient

- 40A design, dynamic MPPT efficiency of 99.9%
- Built-in PID repair, improving overall system performance
- AI dynamic MPPT, boosting power generation by 5%

Smart & Manageable

- Module-level monitoring for precise fault positioning
- Intelligent IV diagnostics for precise fault identification
- Real-time monitoring with OTA for online maintenance

HYX-S100/110/120K-T
Technical Specifications

Product Model	HYX-S100K-T	HYX-S110K-T	HYX-S120K-T
PV Input			
Max. Input Voltage		1,100V	
Nominal Input Voltage		600V	
Start-up Voltage		160V	
MPPT Operating Voltage Range		140 - 1,000V	
MPPT Full Load Voltage Range		500 - 850V	
Max. Input Current Per MPPT		40A	
Max. Input Current Per String		20A	
Max. Short-Circuit Current		50A	
Number of MPPT		10	
Max. Input Number Per MPPT		20	
AC Output			
Nominal Output Power	100kW	110kW	120kW
Max. Apparent Power	110kVA	121kVA	132kVA
Nominal Output Voltage		3L / N / PE, 220 / 380V, 230 / 400V	
Nominal AC Grid Frequency		50 / 60Hz	
Nominal Output Current	151.9A	167.1A	182.3A
Max. Output Current	167.2A	185.7A	190.5A
Adjustable Power Factor		0.8 leading...0.8 lagging	
THDi		< 3%	
Efficiency			
Max. Efficiency		98.8%	
European Weighted Efficiency		98.3%	
MPPT Efficiency		99.9%	
Protection			
Active Anti-islanding Protection		General Electric Frequency Shift	
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		Yes	
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/ WLAN+App	
Communication		RS485 / 4G / WIFI / HPLC	
Weight		94kg	
Dimensions (W*H*D)		1000*730*375mm	
Topology		Non-Isolated	
Degree of Protection		IP66	
Overvoltage Level		PV II / AC III	