

STRING INVERTER

HYX-S8K/10K/12K-T



Safe & Reliable

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

- 160% PV oversizing for extended output
- 18A design, ideal for high-power modules
- 98.5% efficiency with wide MPPT range

Smart & Manageable

- Module-level monitoring for precise fault positioning
- Intelligent IV diagnostics for precise fault identification
- Scenario-based app with real-time energy monitoring

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Technical Specifications

Product Model	HYX-S8K-T	HYX-S10K-T	HYX-S12K-T
PV Input			
Max. Input Power	12,800W	16,000W	19,200W
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		330 ~ 850V	
Max. Input Current Per MPPT		18A	
Max. Short-Circuit Current		24A	
Number of MPPT		2	
Max. Input Number Per MPPT		1 / 1	
AC Output			
Nominal Output Power	8,000W	10,000W	12,000W
Max. Apparent Power	8,800VA	11,000VA	13,200VA
Nominal Output Voltage	3L / N / PE, 220 / 380V, 230 / 400V		
Nominal AC Grid Frequency	50 / 60Hz		
Nominal Output Current	12.2A / 380V 11.5A / 400V	15.2A / 380V 14.4A / 400V	18.2A / 380V 17.3A / 400V
Max. Output Current	13.5A / 380V 12.7A / 400V	16.9A / 380V 15.8A / 400V	20.1A / 380V 19.1A / 400V
Adjustable Power Factor	0.8 leading...0.8 lagging		
THDi	< 3%		
Efficiency			
Max. Efficiency	98.5%		
European Weighted Efficiency	98.1%		
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		
General Data			
Operating Temperature Range	-30 to + 60°C		
Relative Operating Humidity	0 ~ 100 %RH		
Operating Altitude	4,000m		
Cooling	Natural Cooling		
Display	LED+App		
Communication	RS485 / 4G / WIFI		
Weight	21kg		
Dimensions (W*H*D)	522*416*162.5mm		
Topology	Non-Isolated		
Degree of Protection	IP66		
Overvoltage Level	PV II / AC III		