

STRING INVERTER

HYX-S7K/8K/9K/ 10K/12K-S



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
- 20A design, ideal for high-power modules
- 98.3% 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

Product Model	HYX-S7K-S	HYX-S8K-S	HYX-S9K-S	HYX-S10K-S	HYX-S12K-S
PV Input					
Max. Input Power	11,200W	12,800W	14,400W	16,000W	19,200W
Max. Input Voltage	600V				
Nominal Input Voltage	360V				
Start-up Voltage	80V				
MPPT Operating Voltage Range	40 - 560V				
MPPT Full Load Voltage Range	200 - 500V				
Max. Input Current Per MPPT	20A / 20A		20A / 20A / 20A		
Max. Short-Circuit Current	24A / 24A		24A / 24A / 24A		
Number of MPPT	2		3		
Max. Input Number Per MPPT	1 / 1		1 / 1 / 1		
AC Output					
Nominal Output Power	7,000W	8,000W	9,000W	10,000W	12,000W
Max. Apparent Power	7,700VA	8,800VA	9,900VA	11,000VA	13,200VA
Nominal Output Voltage	1 / N / PE, 220V / 230V / 240V				
Nominal AC Grid Frequency	50 / 60Hz				
Nominal Output Current	31.8A / 220V 30.4A / 230V 29.2A / 240V	36.4A / 220V 34.8A / 230V 33.3A / 240V	40.9A / 220V 39.1A / 230V 37.5A / 240V	45.5A / 220V 43.5A / 230V 41.7A / 240V	54.5A / 220V 52.2A / 230V 50A / 240V
Max. Output Current	35A / 220V 33.4A / 230V 32.1A / 240V	40A / 220V 38.3A / 230V 36.7A / 240V	45A / 220V 43A / 230V 41.3A / 240V	50A / 220V 47.9A / 230V 45.8A / 240V	60A / 220V 57.42A / 230V 55A / 240V
Adjustable Power Factor	0.8 leading...0.8 lagging				
THDi	< 3%				
Efficiency					
Max. Efficiency	98.2%				
European Weighted Efficiency	97.6%				
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	23kg				
Dimensions (W*H*D)	522*416*162.5mm				
Topology	Non-Isolated				
Degree of Protection	IP66				
Overvoltage Level	PV II / AC III				