



STRING INVERTER HYX-S30K/33K/ 36K/40K/50K-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

- 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

Product Model	HYX-S30K-T	HYX-S33K-T	HYX-S36K-T	HYX-S40K-T	HYX-S50K-T
PV Input					
Max. Input Power	48kW	52.8kW	57.6kW	64kW	80kW
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			450 - 850V		
Max. Input Current Per MPPT			40A		
Max. Input Current Per String			20A		
Max. Short-Circuit Current			50A		
Number of MPPT		3		4	
Max. Input Number Per MPPT		2 / 2 / 2		2 / 2 / 2 / 2	
AC Output					
Nominal Output Power	30kW	33kW	36kW	40kW	50kW
Max. Apparent Power	33kVA	36.3kVA	39.6kVA	44kVA	55kVA
Nominal Output Voltage			3L / N / PE, 220 / 380V, 230 / 400V		
Nominal AC Grid Frequency			50 / 60Hz		
Nominal Output Current	45.6A / 380V 43.3A / 400V	50.2A / 380V 47.6A / 400V	54.7A / 380V 52A / 400V	60.8A / 380V 57.7A / 400V	76A / 380V 72.2A / 400V
Max. Output Current	50.2A / 380V 47.6A / 400V	55.2A / 380V 52.4A / 400V	60.2A / 380V 57.2A / 400V	66.9A / 380V 63.5A / 400V	83.6A / 380V 79.4A / 400V
Adjustable Power Factor			0.8 leading...0.8 lagging		
THDi			< 3%		
Efficiency					
Max. Efficiency			98.6%		
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		
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			44kg		
Dimensions (W*H*D)			615*460*268.5mm		
Topology			Non-Isolated		
Degree of Protection			IP66		
Overvoltage Level			PV II / AC III		

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