

STRING INVERTER
HYX-S29K9/30K/33K/
36K/40K/50K-T



Safe & Reliable

- IP66, 1,400+ 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-S29K9-T	HYX-S30K-T	HYX-S33K-T	HYX-S36K-T	HYX-S40K-T	HYX-S50K-T
PV Input						
Max. Input Power	48kW	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	29.9kW	30kW	33kW	36kW	40kW	50kW
Max. Apparent Power	29.9kVA	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	45.4A / 380V 43.1A / 400V	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	45.4A / 380V 43.1A / 400V	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			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			
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			