

# 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

## Technical Specifications

Product Model	HYX-S29K9-T	HYX-S30K-T	HYX-S33K-T	HYX-S36K-T	HYX-S40K-T	HYX-S50K-T
<b>PV Input</b>						
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	
<b>AC Output</b>						
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%					
<b>Efficiency</b>						
Max. Efficiency	98.6%					
European Weighted Efficiency	98.1%					
MPPT Efficiency	99.9%					
<b>Protection</b>						
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					
<b>General Data</b>						
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					