

STRING INVERTER HYX-S36K/50K/ 60K/75K-LT



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

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Technical Specifications

Product Model	HYX-S36K-LT	HYX-S50K-LT	HYX-S60K-LT	HYX-S75K-LT
PV Input				
Max. Input Power	57.6kW	80kW	96kW	120kW
Max. Input Voltage			800V	
Nominal Input Voltage			450V	
Start-up Voltage			160V	
MPPT Operating Voltage Range			140 - 800V	
Max. Input Current Per MPPT			40A	
Max. Input Current Per String			20A	
Max. Short-Circuit Current			50A	
Number of MPPT	6	6	8	8
Number of Input	12	12	16	16
AC Output				
Nominal Output Power	36kW	50kW	60kW	75kW
Max. Apparent Power	39.6kVA	55kVA	66kVA	75kVA
Nominal Output Voltage			127V / 220V, 3L / N / PE	
Nominal AC Grid Frequency			50 / 60Hz	
Nominal Output Current	94.4A / 220V	131.2A / 220V	157.5A / 220V	196.8A / 220V
Max. Output Current	103.9A / 220V	144.3A / 220V	173.2A / 220V	196.8A / 220V
Adjustable Power Factor			> 0.99 / 0.8 leading...0.8 lagging	
THDi			< 3%	
Efficiency				
Max. Efficiency			98.8%	
European Weighted Efficiency			98.3%	
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	
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 (Optional)	
Weight			94kg	
Dimensions (W*H*D)			1000*730*375mm	
Topology			Non-Isolated	
Degree of Protection			IP66	
Overvoltage Level			PV II / AC III	