

String Inverter

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

Version 1.4-2606(Preliminary)

Design and specifications are subject to change without notice.



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, Daynamic 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

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

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		
MPPT Full Load Voltage Range		500 - 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
Max. Input Number Per MPPT		2		
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%		

Technical Specifications

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

Product Model	HYX-S36K-LT	HYX-S50K-LT	HYX-S60K-LT	HYX-S75K-LT
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		4000m		
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		