

STRING INVERTER

HYX-S250K-HT

HYX-S305K-HT



Highly Profitable

- 75A design for higher output power
- 14% less switching loss, 99.03% conversion efficiency
- AI dynamic MPPT, boosting power generation by 5%

Ultimately Reliable

- Terminal temperature monitoring with overheat protection
- Smart string disconnection, <25ms fast shutdown
- IP66, 1400+ cumulative rigorous tests

Grid-Friendly

- Full power feed in grid at SCR<1.2
- THDi <1% for improved power quality

Smart & Manageable

- Intelligent IV curve scanning with 99% fault detection accuracy
- Real-time monitoring with OTA for online maintenance

Technical Specifications

Product Model	HYX-S250K-HT		HYX-S305K-HT	
PV Input				
Max. Input Voltage			1,500V	
Nominal Input Voltage			1,080V	
Start-up Voltage			500V	
MPPT Operating Voltage Range			480 - 1,500V	
Max. Input Current Per MPPT			75A	
Max. Short-Circuit Current			120A	
Number of MPPT			6	
Max. Input Number Per MPPT			30 (Optional: 24)	
AC Output				
Nominal Output Power	250kW		305kW	
Max. Apparent Power	275kVA		305kVA	
Nominal Output Voltage			3L / PE, 800V	
Nominal AC Grid Frequency			50Hz / 60Hz	
Nominal Output Current	180.4A		220A	
Max. Output Current	198.5A		220A	
Adjustable Power Factor			>0.99 (0.8 leading...0.8 lagging)	
THDi			< 3%	
Efficiency				
Max. Efficiency			≥99.03%	
European Weighted Efficiency			≥98.8%	
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	
Smart String-level Disconnection			Yes	
Smart Connector-level Detection			Yes	
General Data				
Operating Temperature Range			-35 to + 60°C	
Relative Operating Humidity			0 - 100 %RH	
Operating Altitude			5,000m	
Cooling			Smart Air Cooling	
Display			LED / WLAN+App	
Communication			RS485 / HPLC	
Weight			130kg	
Dimensions (W*H*D)			1120*820*380mm	
Topology			Non-Isolated	
Degree of Protection			IP66	
Overvoltage Level			PV II / AC III	