Design and specifications are subject to change without notice.
Version 1.1-2025

STRING INVERTER
HYX-S320K-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

HYX-H320K-HT

Technical Specifications

Product Model	HYX-S320K-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 MPP Trackers	6	
Max. Input Number Per MPP Tracker	24	30
AC Output		
Nominal Output Power	320kW	
Max. Apparent Power	352kVA	
Nominal Output Voltage	3L / PE, 800V	
Nominal AC Grid Frequency	50Hz / 60Hz	
Nominal Output Current	230.9A	
Max. Output Current	254A	
Adjustable Power Factor	>0.99 (0.8 leading...0.8 lagging)	
THDi	< 3%	
Efficiency		
Max. Efficiency	≥99.03%	
European Weighted Efficiency	≥98.52%	
MPPT Efficiency	99.9%	
Protection		
Active Anti-islanding Protection	General Electric Frequency Shift	
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	