

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

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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 MPPT	6
Max. Input Number per MPPT	30 (Optional: 24)
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	≥98.8%
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