String Inverter
HYX-S320K-HT

Version 1.6-202607
Design and specifications are subject to change without notice.



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 <3% for Improved Power Quality

Highly Profitable
- 75A Design for Higher Output Power
- 14% Less Switching Loss, 99.03% Conversion Efficiency
- AI Dynamic MPPT, Boosting Power Generation by 5%

Smart & Manageable
- Intelligent IV Curve Scanning with 99% Fault Detection Accuracy
- Real-Time Monitoring with OTA for Online Maintenance

Technical Specifications
HYX-S320K-HT

Product Model	HYX-S320K-HT
PV Input	
Max. Input Voltage	1500Vd.c.
Nominal Input Voltage	1080Vd.c.
Start-up Voltage	500Vd.c.
MPPT Operating Voltage Range	480 ~ 1500Vd.c.
MPPT Full Load Voltage Range	850 ~ 1350Vd.c.
Max. Input Current per MPPT	75Ad.c.
Max. Short-circuit Current	120Ad.c.
Number of MPPT	6
Max. Input Number per MPPT	5
AC Output	
Nominal Output Power	320kW
Max. Apparent Power	352kVA
Nominal Output Voltage	3L/PE, 800Va.c.
Nominal AC Grid Frequency	50Hz/60Hz
Nominal Output Current	230.9Aa.c.
Max. Output Current	254Aa.c.
Adjustable Power Factor	> 0.99 (0.8 leading…0.8 lagging)
THDi	< 3%
Efficiency	
Max. Efficiency	≥99.03%

Technical Specifications

HYX-S320K-HT

Product Model	HYX-S320K-HT
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	5000m
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