String Inverter
HYX-S250K/305K-HT

Version 1.1-202511
Design and specifications are subject to change without notice.



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
HYX-S250K/305K-HT

Product Model	HYX-S250K-HT	HYX-S305K-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.	
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	250kW	305kW
Max. Apparent Power	275kVA	305kVA
Nominal utput oltage	3L/PE, 800Va.c.	
Nominal AC Grid Frequency	50/60Hz	
Nominal Output Current	180.4Aa.c.	220Aa.c.
Max. Output Current	198.5Aa.c.	220Aa.c.
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%	

Technical Specifications

HYX-S250K/305K-HT

Product Model	HYX-S250K-HT	HYX-S305K-HT
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 emperature ange	-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	